



LevelOne

User Manual

WUA-0614 / WUA-0624

150Mbps N Wireless USB Adapter

Safety

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Marking Warning

Digital Data Communications, declares that this product (Model-no. WUA-0614 and WUA-0624) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The CE-Declaration of Conformity can be downloaded at:

<http://www.levelone.eu/support.php>

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Chapter 1

Introduction



This Chapter provides an overview of the Wireless USB Adapter's features and capabilities.

Congratulations on the purchase of your new Wireless USB Adapter. The Wireless USB Adapter provides a wireless network interface for your Notebook or PC.

Package Contents

The following items should be included:

- The Wireless USB Adapter (WUA-0614 / WUA-0624)
- Antenna
- Quick Start Guide
- CD-ROM containing the on-line manual.

If any of the above items are damaged or missing, please contact your dealer immediately.

Features

- Compatible with IEEE 802.11b, 802.11g and 802.11n
- Data transmission rate is up to 150Mbps
- Supports 64/128-bit WEP, WEP (802.1x), WPA-PSK, WPA2-PSK, WPA (TKIP/ AES with IEEE802.1x) and WPA2 (TKIP/ AES with IEEE 802.1x) functions for high level security
- Supports CCX (Cisco Compatible Extensions) for the radio monitoring and fast roaming
- Automatic fallback which increases the data security and reliability
- Supports USB 2.0 interface

LED

Wireless USB Adapter

The Wireless USB Adapter has a single Link/Activity LED.

Link/Act LED (Blue)	<ul style="list-style-type: none">• On - Associated with the network.• Off - Not associated with the network.• Blinking - Data being transferred.
----------------------------	---

Operation

You should install the supplied software on the CD-ROM before inserting the Wireless USB Adapter.

If you have any form of the wireless utility beforehand, please uninstall it.

Chapter 2

Initial Installation

3

This Chapter covers the software installation of the Wireless USB Adapter.

Requirements

- Windows 2000/XP/Vista/7.
- Available USB port.
- CD-ROM drive.
- IEEE802.11b, IEEE802.11g and IEEE802.11n wireless LAN

Procedure

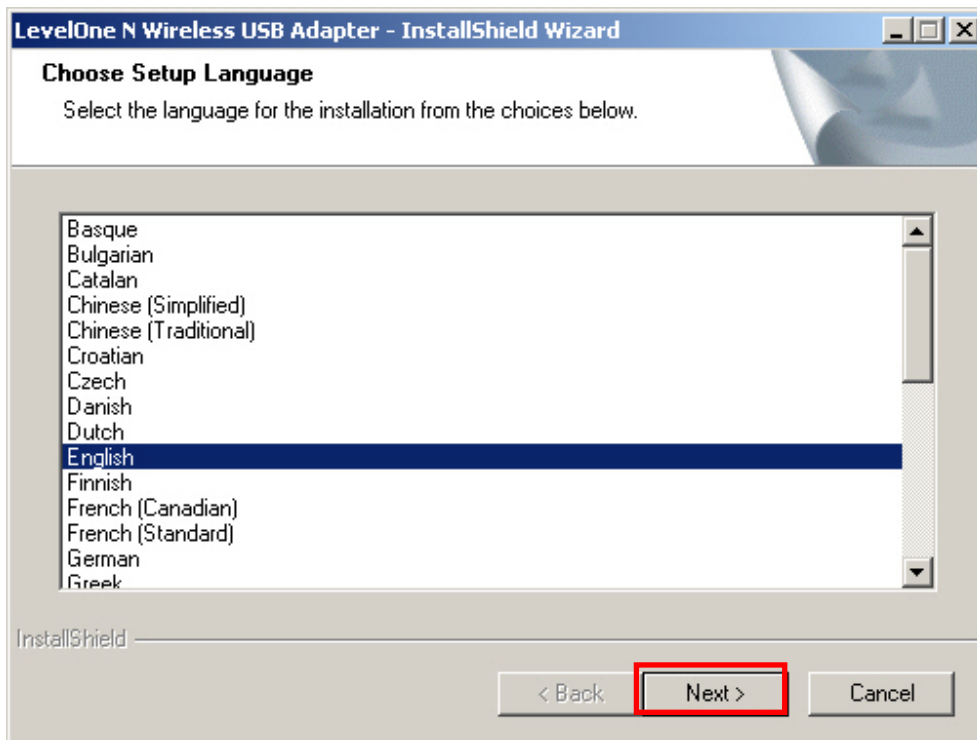
You should install the supplied software **BEFORE** inserting the Wireless USB Adapter.

Note: Screen captures shown in this guide are from Windows XP. Unless mentioned, there are no differences in Vista.

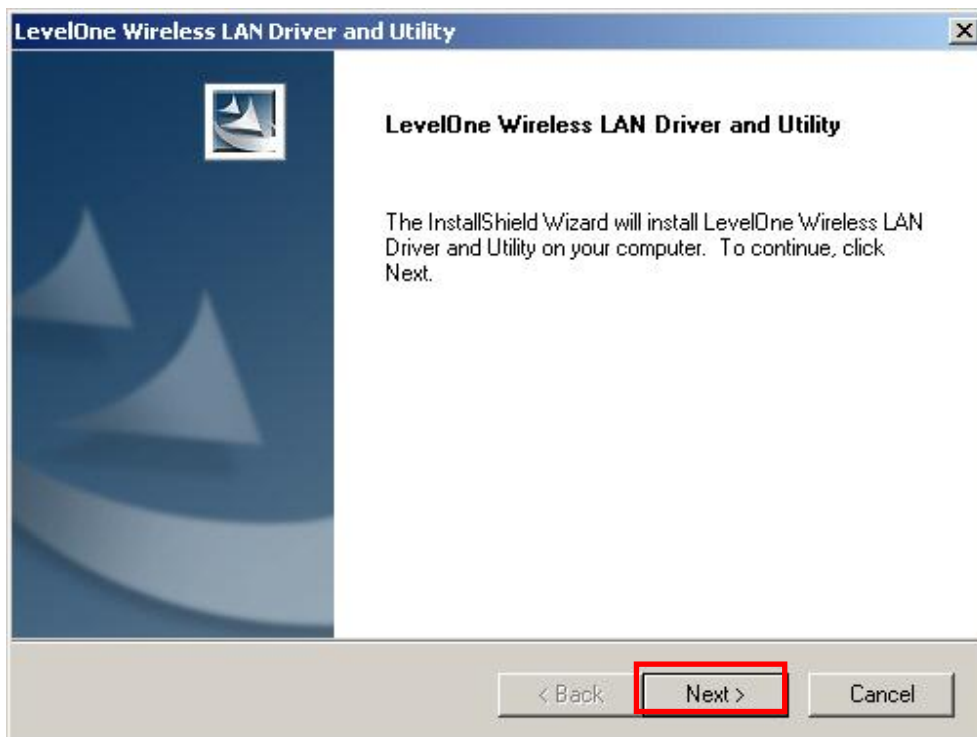
1. Insert the CD into the CD-ROM drive on your PC.
2. The autorun program should start automatically.
If it does not, please run **autorun.exe** under your CD-ROM drive
3. In the autorun screen, click **Utility** to begin the software installation.



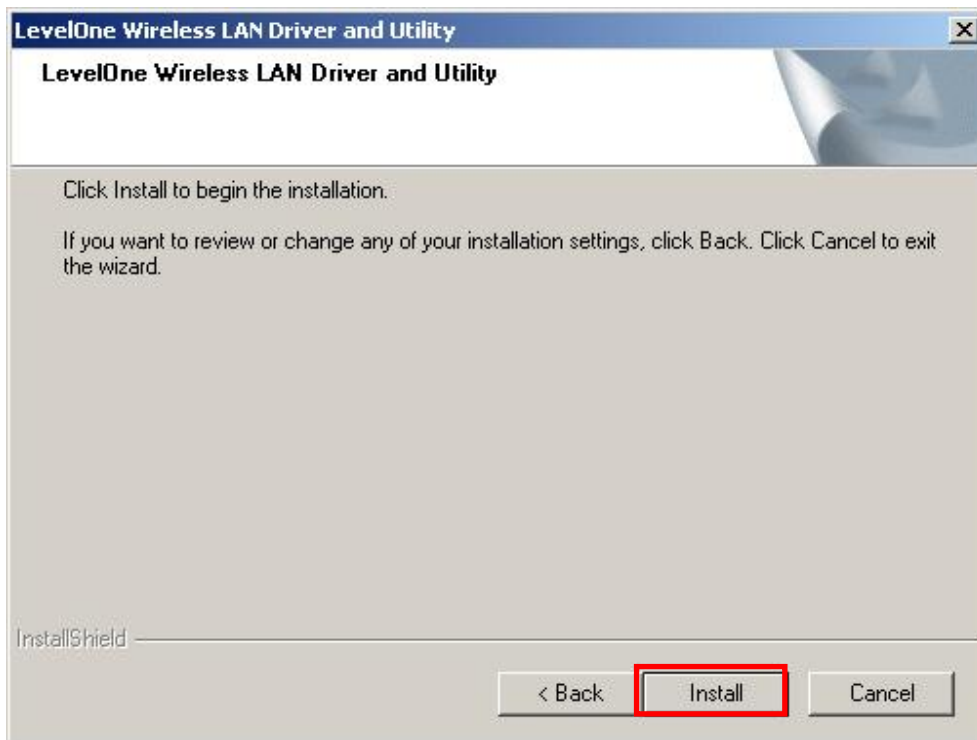
4. Select your desired language, and then click “Next” to start the installation.



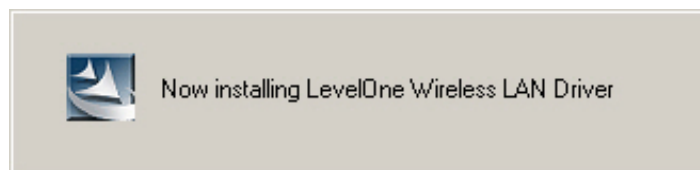
5. Click “Next” to continue.



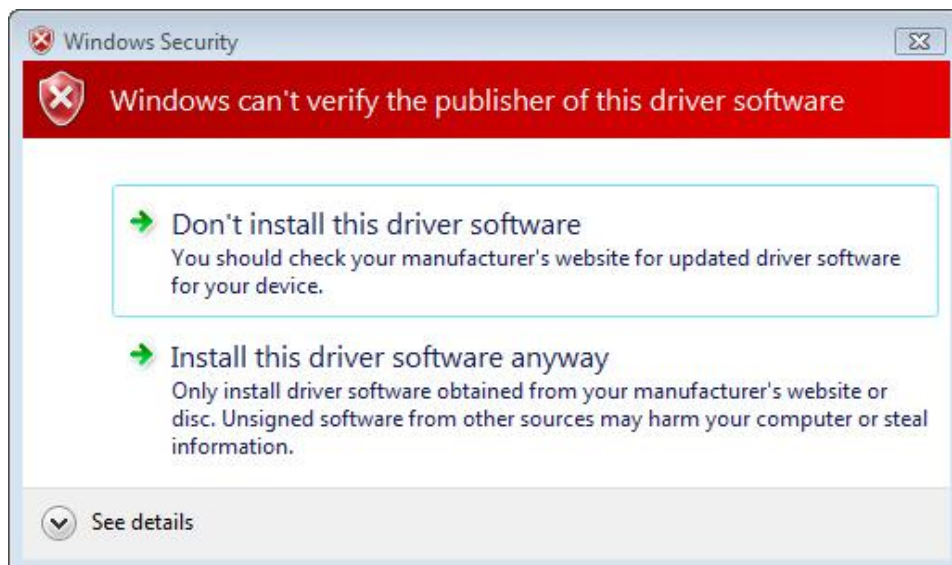
6. Click “Install”



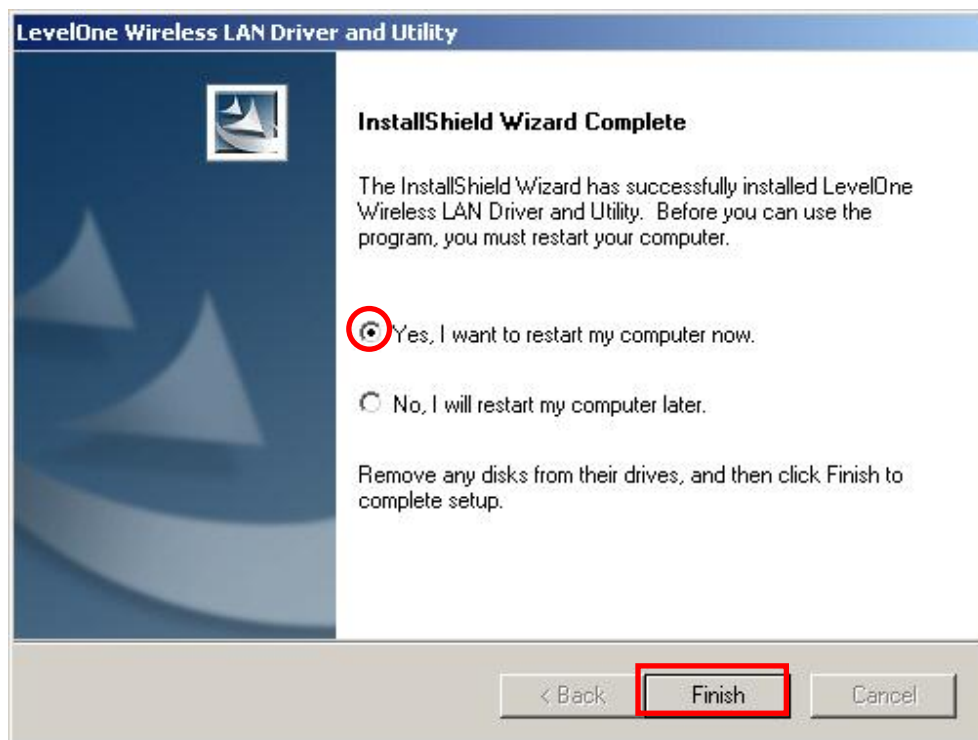
7. The Driver and Utility is being installed.



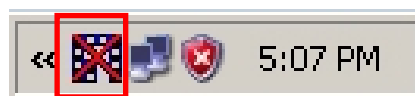
In Windows Vista, the follow message may appear. Please click **“Install this driver software anyway.”**



8. Please click “**Finish**” and restart your computer.



9. After your computer has restarted, the Utility icon will appear in your taskbar.

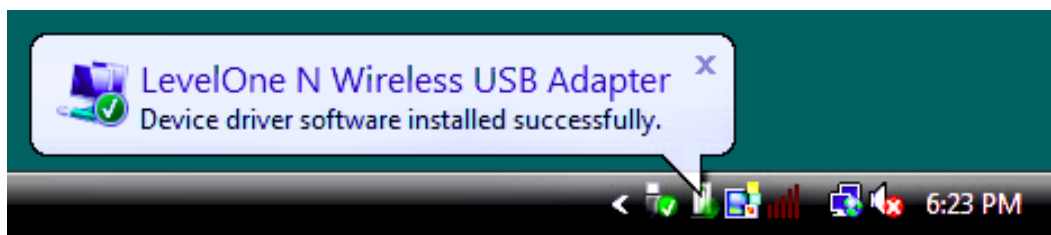


Note: The red cross over the icon indicates the USB Adapter is not plugged in.

10. Now insert the Wireless USB Adapter into your computer's USB port.
The "Found New Hardware Wizard" will appear.
11. Follow the prompts until you see that the N Wireless USB Adapter has been successfully installed.



Windows XP



Windows Vista

12. Device installation is now complete.
You can now use the Utility to connect to your wireless network.

Chapter 3

Using the Windows Utility

This Chapter provides Setup details for the AP mode of the Wireless USB Adapter.

Overview

If using Windows, you can use the supplied utility to configure the Wireless interface.

To Use the supplied Windows utility for Configuration

- Double-click the *LevelOne Wireless LAN Utility* icon on the desktop. This Chapter assumes you are using the supplied Wireless utility.



System Tray Icon

If the Wireless Utility program is running, you can click the icon in the System Tray or right-click the icon and select "Open Config Utility" to open the application.

Status Information

The menu options available from the System Tray icon are:

- **Open Config Utility** - This will display the main screen of the Utility.
- **About** - Displays the information of company and version.
- **Hide** - This will remove the tray icon from the task bar.
- **QUIT**- Terminate the connection to the Wireless USB Adapter.

General Screen

This screen is displayed when you click the system tray icon. You can also click the General tab in the screen.

When you open the utility program, it will scan all the channels to find all the access points/stations within the accessible range and automatically connect to one of the wireless devices which have the highest signal strength.

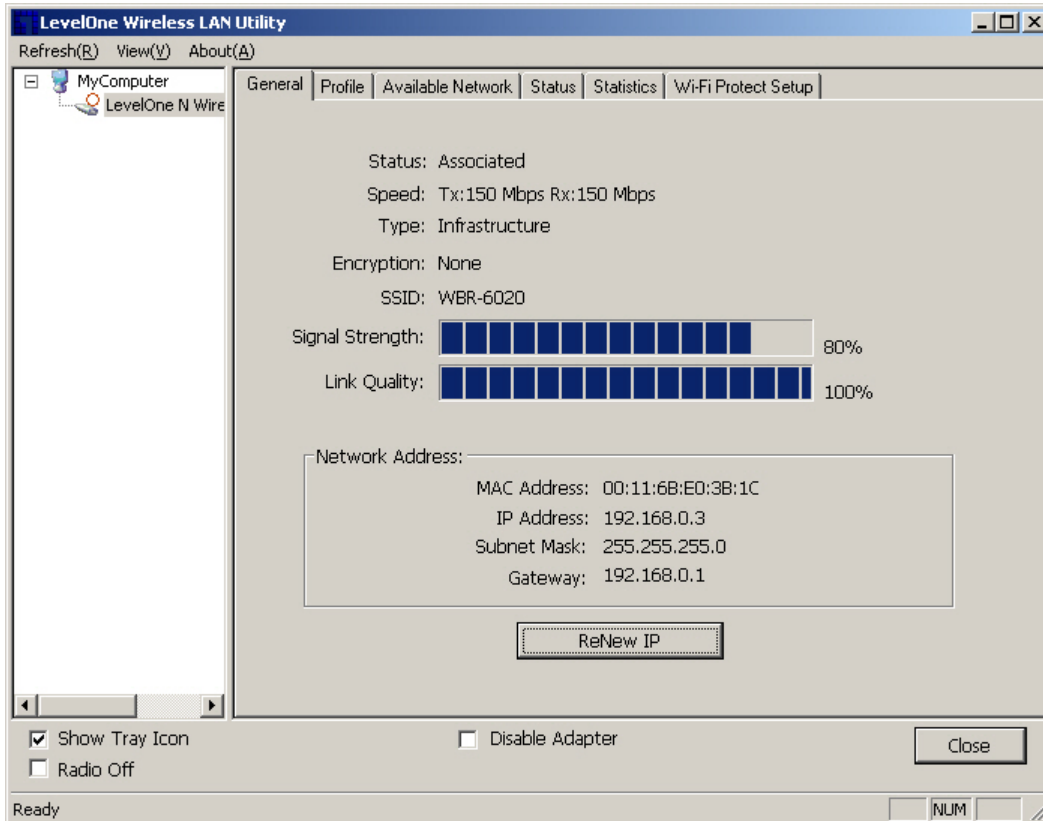


Figure 1: Network Screen

Data - Network Screen

Status	Displays the current status of the Wireless LAN Adapter.
Speed	It shows the current Transmission (Tx) rate and Receiving (Rx) rate.
Type	This will indicate "Infrastructure" or "Ad-hoc".
Encryption	It shows the wireless security that the wireless network is using.
SSID	The SSID (up to 32 printable ASCII characters) is a unique name identified in a WLAN.
Signal Strength	This is displayed as percentage (0 ~ 100%) of specified network.
Link Quality	It displays connection quality based on signal strength and TX/RX packet error rate.
MAC Address	This is the MAC address of the Access Point (or Wireless station, if the network is an Ad-hoc network).

IP Address	It shows the current IP address on the wireless interface.
Subnet Mask	Subnet mask for the current IP address.
Gateway	Gateway IP address associated with the current IP address.
Renew IP button	Click this button to renew the IP address.

Adapter Settings

You can configure the adapter settings in this section.

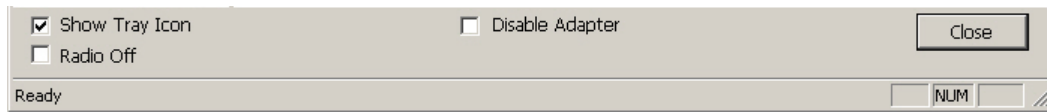


Figure 2: Adapter Settings

Data - Adapter Settings

Show Tray Icon	Enable this if you want the icon displayed in the task bar.
Disable Adapter	Enable this to Terminate the connection to the Wireless USB Adapter.
Radio Off	You can turn the radio signal on/off by clicking this check box.
Close Button	Click this button to exit the program.

Profile Screen

Click *Profile* tab of the utility, then you will see the following screen. If you want to do the general settings, please follow the instructions below.

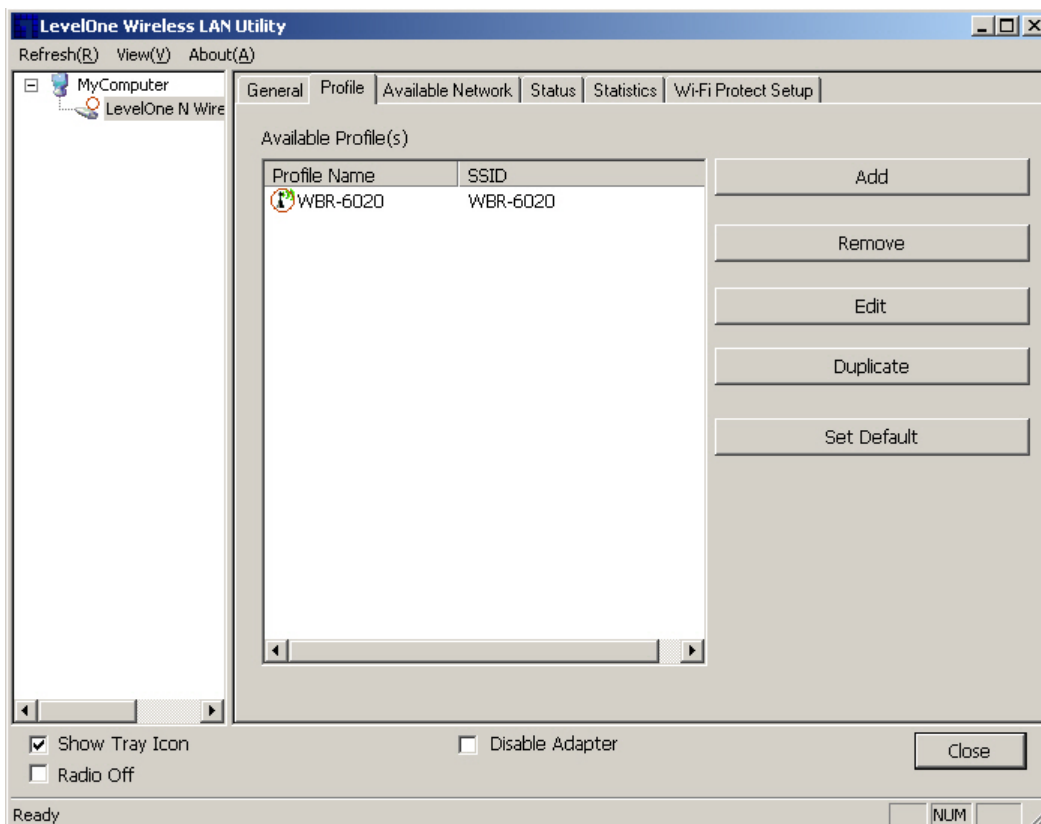


Figure 10: Profile Screen

Data - Profile Screen

Available Profile(s)	
Profile Name	It will indicate the current name for this profile.
SSID	If displays the SSID for the profile above.

To add a profile

1. On the Profile tab, click *Add* button.
2. Complete and verify the settings on this screen are correct.
3. Click *OK*.

To delete a profile

1. On the Profile tab, select the profile that you want to delete.
2. Click *Remove*.

To edit a profile

1. On the Profile tab, select the profile that you want to edit.
2. Click *Edit* button.
3. Change the profile settings as necessary.
4. Click *OK*.

To duplicate a profile

1. On the Profile tab, select the profile that you want to duplicate.
2. Click *Duplicate*.
3. Enter the name for the profile.

To enable a profile

1. In the list of available profiles, click the profile that you want to enable.
2. Click *Set Default*.

Add Profile

Click *Add* button in the **Profile** screen, the following Add Profile window will pop up. Users can setup the general settings, encryption and authentication settings and so on.

Figure 3: Add Profile Screen

Data - Add Profile Screen

Wireless Network Properties	
Profile Name	Enter or select a suitable name for this profile. Each profile must have a unique name.
Network Name (SSID)	Type in the SSID of the desired wireless network.
This is a computer-to-computer network...	Enable this if you are connecting directly to another computer.
Channel	Select the Channel you wish to use on your Wireless LAN.

Wireless Network Security

Network Authentication

You MUST select the option to match the Wireless LAN you wish to join. The available options are:

- **Open System** - Broadcast signals are not encrypted. This method can be used only with no encryption or with WEP.
- **Shared Key** - Broadcast signals are encrypted using WEP. This method can only be used with WEP.
- **WPA-PSK** - PSK means "Pre-shared Key". You must enter this Passphrase value; it is used for both authentication and encryption.
- **WPA2-PSK** - This is a further development of WPA-PSK, and offers even greater security. You must enter this Passphrase value; it is used for both authentication and encryption.
- **WPA 802.1x** - This version of WPA requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WPA standard.
- **WPA2 802.1x** - This version of WPA2 requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WPA2 standard.
- **WEP 802.1x** - This version of WEP requires a Radius Server on your LAN to provide the client authentication according to the 802.1x standard. Data transmissions are encrypted using the WEP standard.

Data Encryption

The available options depend on the Authentication method selected above. The possible options are:

- **Disabled** - No data encryption is used.
- **WEP** - If selected, you must enter the WEP data shown below. This WEP data must match the Access Point or other Wireless stations.
- **AES, TKIP** - These options are available with WPA-PSK, WPA2-PSK, WPA 802.1x and WPA2 802.1x. Select the correct option.

Passphrase

For WEP modes, you need to enter the desired value (8~63 characters). Data is encrypted using a 256Bit key derived from this key. Other Wireless Stations must use the same key.

Select the desired option, and ensure the Wireless Stations use the same setting.

- **64 Bit** - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 64 Bit Encryption, the key size is 10 chars in HEX (0~9 and A~F).
- **128 Bit** - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 128 Bit Encryption, the key size is 26 chars in HEX (0~9 and A~F).

ASCII	Numerical values, characters or signs are all allowed to be entered.
Key Index (1~4)	This setting is only available for Open System or Shared Key mode.
Network key	For WPA-PSK and WPA2-PSK modes, you need to enter the desired value (8~63 characters). Data is encrypted using a 256Bit key derived from this key. Other Wireless Stations must use the same key.
Confirm network key	Re-enter the value in this field.
802.1x	
EAP Method	<p>There are 5 methods in the drop-down list.</p> <ul style="list-style-type: none"> • GTC - Generic Token Card. It was created by Cisco. It carries a text challenge from the authentication server, and a reply which is assumed to be generated by a security token. GTC does not protect the authentication data in any way. • TLS - Transport Layer Security. Provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point. • LEAP - Lightweight Extensible Authentication Protocol. It is a proprietary protocol from Cisco Systems developed to address the security weaknesses common in WEP. • TTLS - Tunneled Transport Layer Security. This security method provides for certificate-based, mutual authentication of the client and network through an encrypted channel. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates. • PEAP - Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunneling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the implementation and administration of a secure wireless LAN.

Tunnel	Select the desired option from the drop-down list.
Provision Mode	Select the desired mode from the drop-down list.
Username	Enter the user name into the field.
Identity	Enter the data in the field.
Domain	Type the domain name you want into the field provided.
Password	Enter the password for the tunnel.
Certificate	Click the checkbox to enable certificate authority server function. Select the desired option from the list.
PAC	Select the desired option from the list.
Auto Select PAC	Click the checkbox to select the PAC automatically.

Available Network Screen

This screen is displayed when you click *Available Network* tab of the utility.

When you open the utility program, it will scan all the channels to find all the access points/stations within the accessible range and automatically connect to one of the wireless devices which have the highest signal strength.

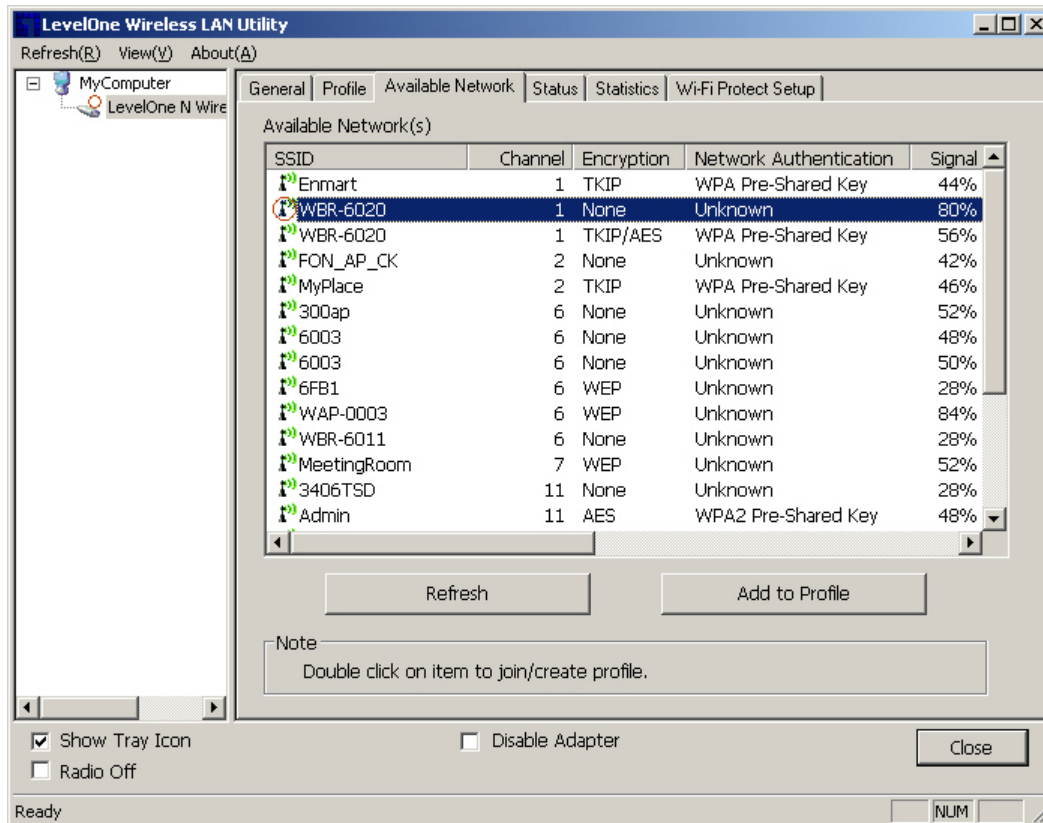


Figure 4: Available Network Screen

Data - Available Network Screen

Available Network(s)	
SSID	The SSID (up to 32 printable ASCII characters) is a unique name identified in a WLAN.
Channel	The channel used by the Wireless network.
Encryption	Data encryption used on the wireless network
Network Authentication	Data authentication methods used on the wireless network
Signal	This is displayed as percentage (0 ~ 100%) of specified network.
Type	It displays the Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
BSSID	This is the MAC address of the Access Point (or Wireless station, if the network is an Ad-hoc network).

Supported Rates	The Wireless rates supported by this Wireless network.
Mode	AP support wireless mode. It may support 802.11a, 802.11b or 802.11n wireless mode.
Refresh	Click this button to rescan for all Wireless networks.
Add to Profile	Click this button to add the selected AP to Profile setting. It will bring up profile page and save user's setting to a new profile.

To Connect to a Wireless Network

- Double Click the wireless network to which you want to connect
- Select the wireless network to which you want to connect, and then click **Add to Profile**.

Note that once you are connected to a Wireless network, the **Available Network** screen will identify the current wireless network with a red circle, as shown below.

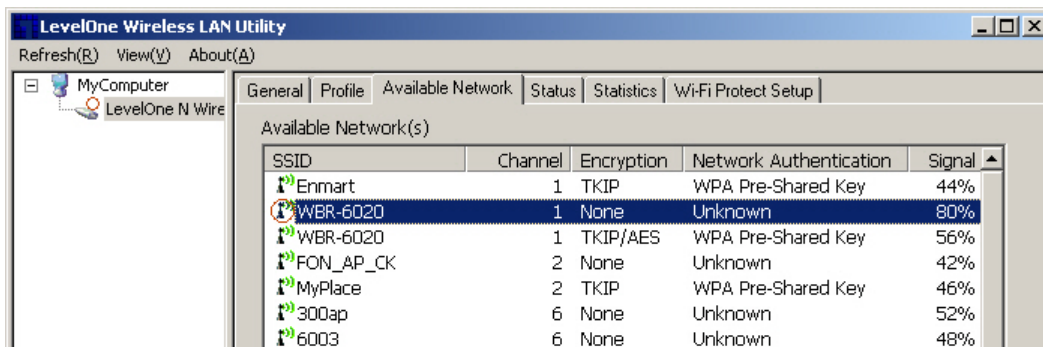


Figure 5: Available Network Screen - Connected

Status Screen

The *Status* screen displays the detailed information of the current connection.

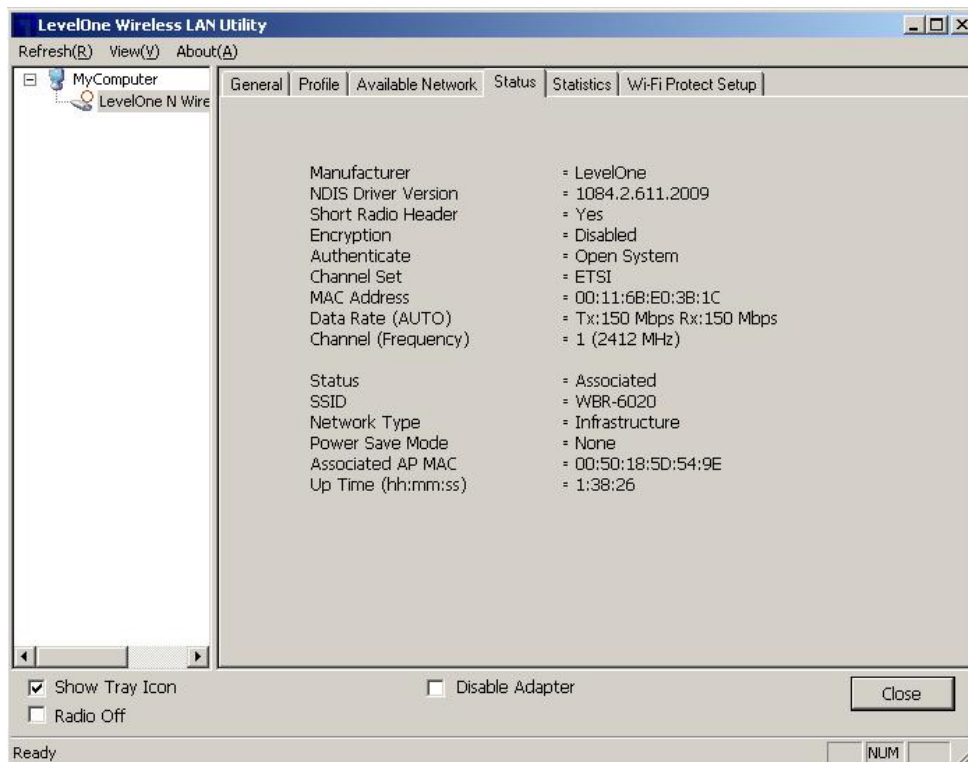


Figure 10: Status Screen

Data - Status Screen

Status	
Manufacturer	It shows the manufacturer of the device
NDIS Driver Version	It displays the current driver version of the NDIS.
Short Radio Header	It indicates the current status of the short radio header.
Encryption	It shows the wireless encryption that the wireless network is using.
Authentication	It will indicate the current authentication mode in use.
Channel Set	It displays the current channel set.
MAC Address	It shows the MAC address of the access point.
Date Rate	It will show current transmit rate and receive rate.
Channel	It displays the current channel in use.
Status	It will indicate the current link status.
SSID	It shows the SSID or network name of the selected wireless network.

Channel	It displays the current channel in use.
Network Type	This will indicate "Infrastructure" or "Ad-hoc".
Power Save Mode	It shows the current power save mode.
Associated AP MAC	It shows the MAC address of the associated access point.
Up Time	It displays the connection time.

Statistics Screen

Click *Statistics* tab of the utility, the page will display the transmitted and received results.

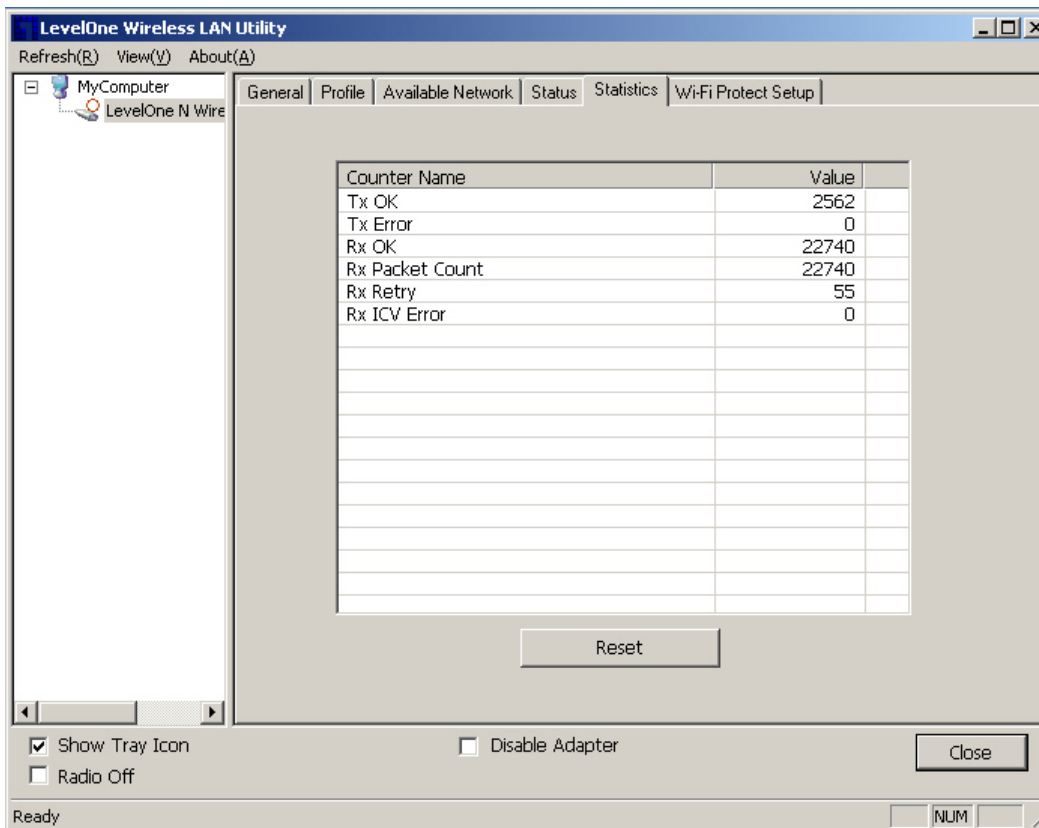


Figure 6: Statistics Screen

Data - Statistics Screen

Transmit	
Tx OK	Frames successfully sent.
Tx Error	Frames failed to transmit.
Receive	
RX OK	Frames received successfully.
Rx Packet Count	Frames received with packet count.
Rx Retry	Frames successfully received with one or more retries.
Rx ICV Error	Frames received with ICV error.
Reset	Click the button to reset counters to zero.

WPS Screen

WPS (Wi-Fi Protected Setup) can simplify the process of connecting any device to the wireless network by using the push button configuration (PBC) on the Wireless Access Point, or entering a PIN code.

You will use the WPS screen when you try to connect the wireless network with the WPS function.

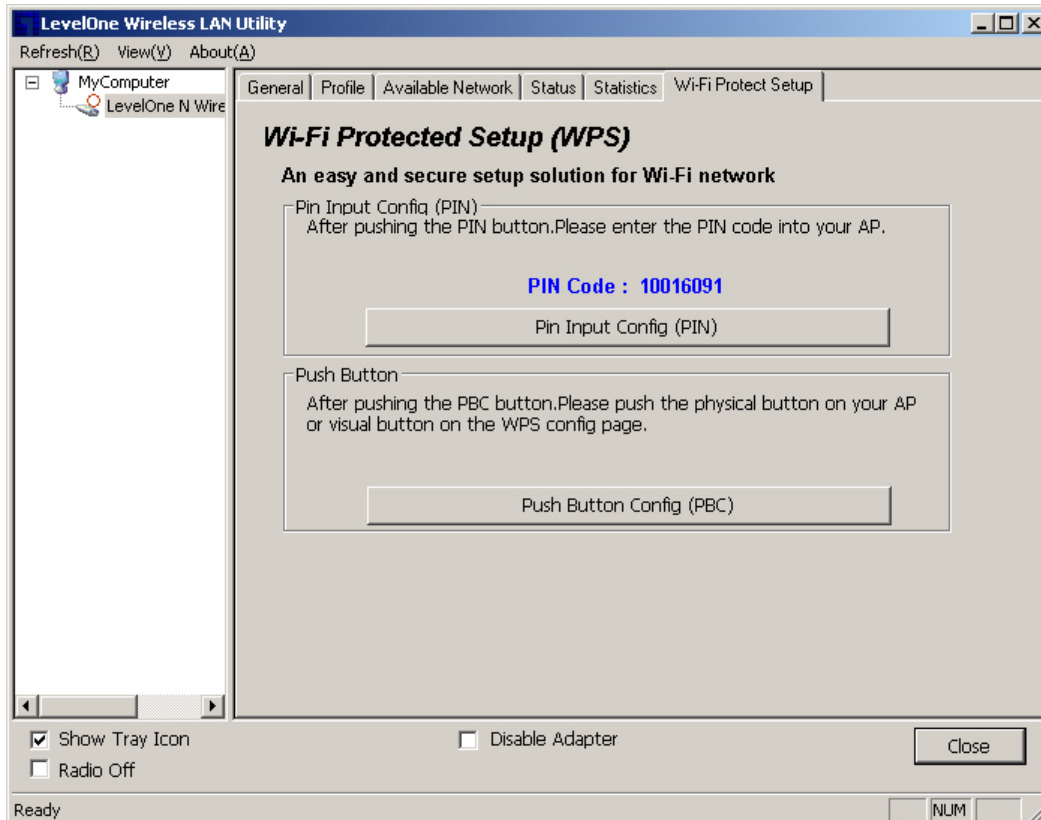


Figure 7: WPS Screen

Data - WPS Screen

Pin Input config (PIN)	
PIN Code	Enter the PIN code displayed in the screen to the WPS screen of the access point.
PIN Input config (PIN) Button	Click this button to connect to the selected network.
Push Button	
Push Button	Start to add to AP using PBC configuration method. After clicking the Push Button Config (PBC), press the physical button or the visual button on the WPS screen of the access point.

Push Button Config (PBC) Method

If both the Wireless Router / Access Point and the Wireless USB Adapter has a physical button or software button for Push Button Config (PBC), please follow steps below to complete the WPS.

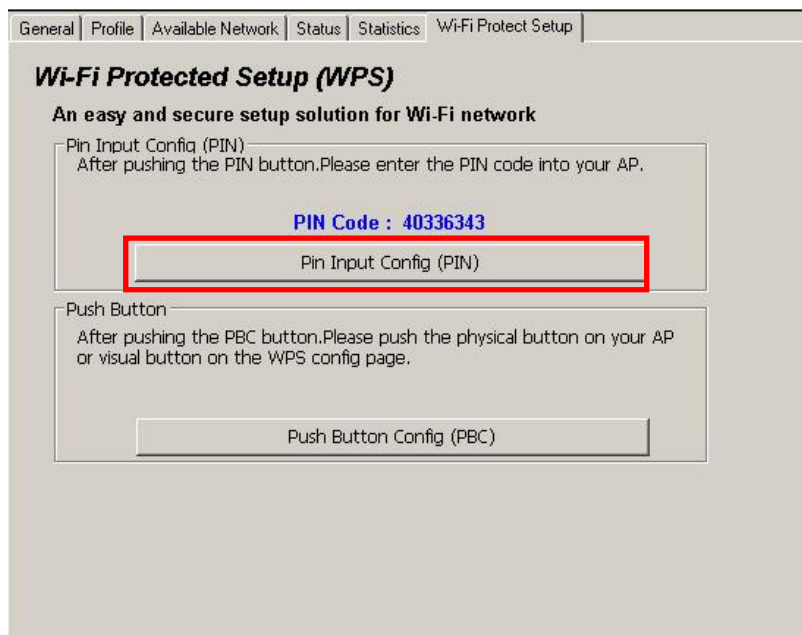
Step 1:

First press the WPS button on your Wireless Router / Access Point.



Step 2:

Click on "Push Button Config (PBC)" button.



You can also push the physical button on the device.

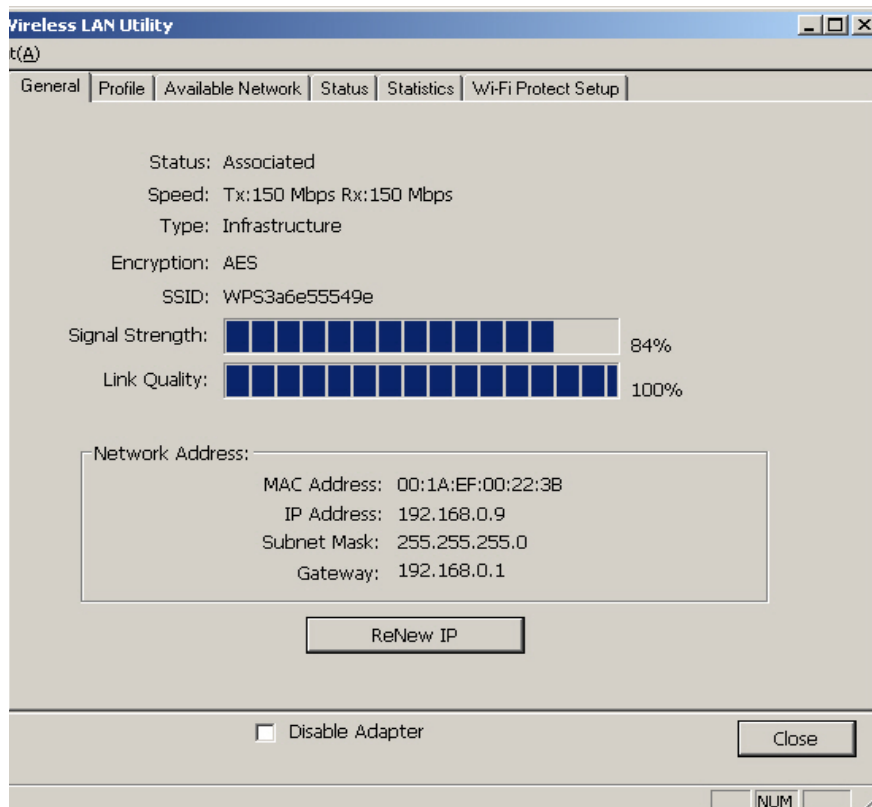


Step 4:

The Utility will now pair the Router/AP and USB Adapter.



When paired successfully, wireless encryption security will be applied to the connection.

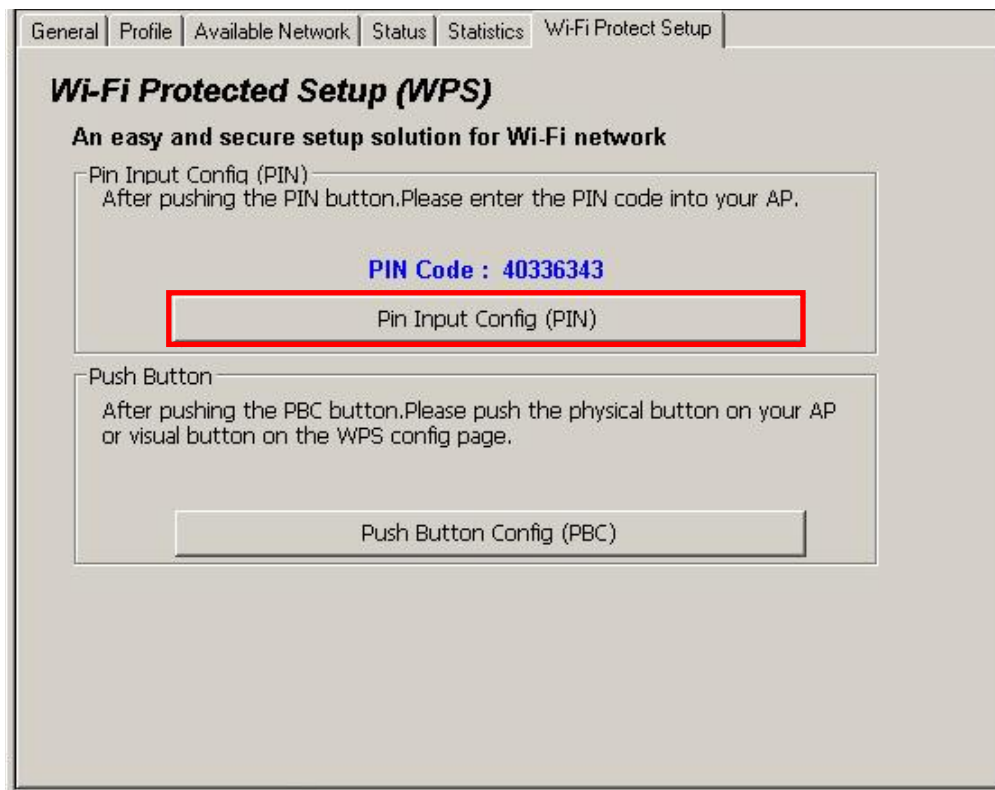


WPS PIN Code Method

You will need to set the same PIN code on both the Wireless Router / Access Point and the USB Adapter.

Step 1:

Check the PIN code assigned by the Wireless LAN Utility



General | Profile | Available Network | Status | Statistics | **Wi-Fi Protect Setup**

Wi-Fi Protected Setup (WPS)

An easy and secure setup solution for Wi-Fi network

Pin Input Config (PIN)
After pushing the PIN button, Please enter the PIN code into your AP.

PIN Code : 40336343

Pin Input Config (PIN)

Push Button
After pushing the PBC button, Please push the physical button on your AP or visual button on the WPS config page.

Push Button Config (PBC)

Step 2:

Enter your Router / Access Point's Web Interface and set the WPS settings as **Registrar** and use the PIN code assigned in the Wireless LAN Utility.

The screenshot displays the LevelOne WBR-6020 web interface. The top navigation bar includes the LevelOne logo, a language dropdown set to 'English', and menu items for 'ADMINISTRATOR's MAIN MENU', 'Status', 'Wizard', 'Advanced', and 'Logout'. Below this is a secondary navigation bar with 'BASIC SETTING', 'FORWARDING RULES', 'SECURITY SETTING', 'ADVANCED SETTING', and 'TOOLBOX'. A left sidebar lists configuration categories: 'Green Function', 'Primary Setup', 'DHCP Server', 'Wireless', and 'Change Password'. The main content area is titled 'Wi-Fi Protected Setup' and contains a table with the following items and settings:

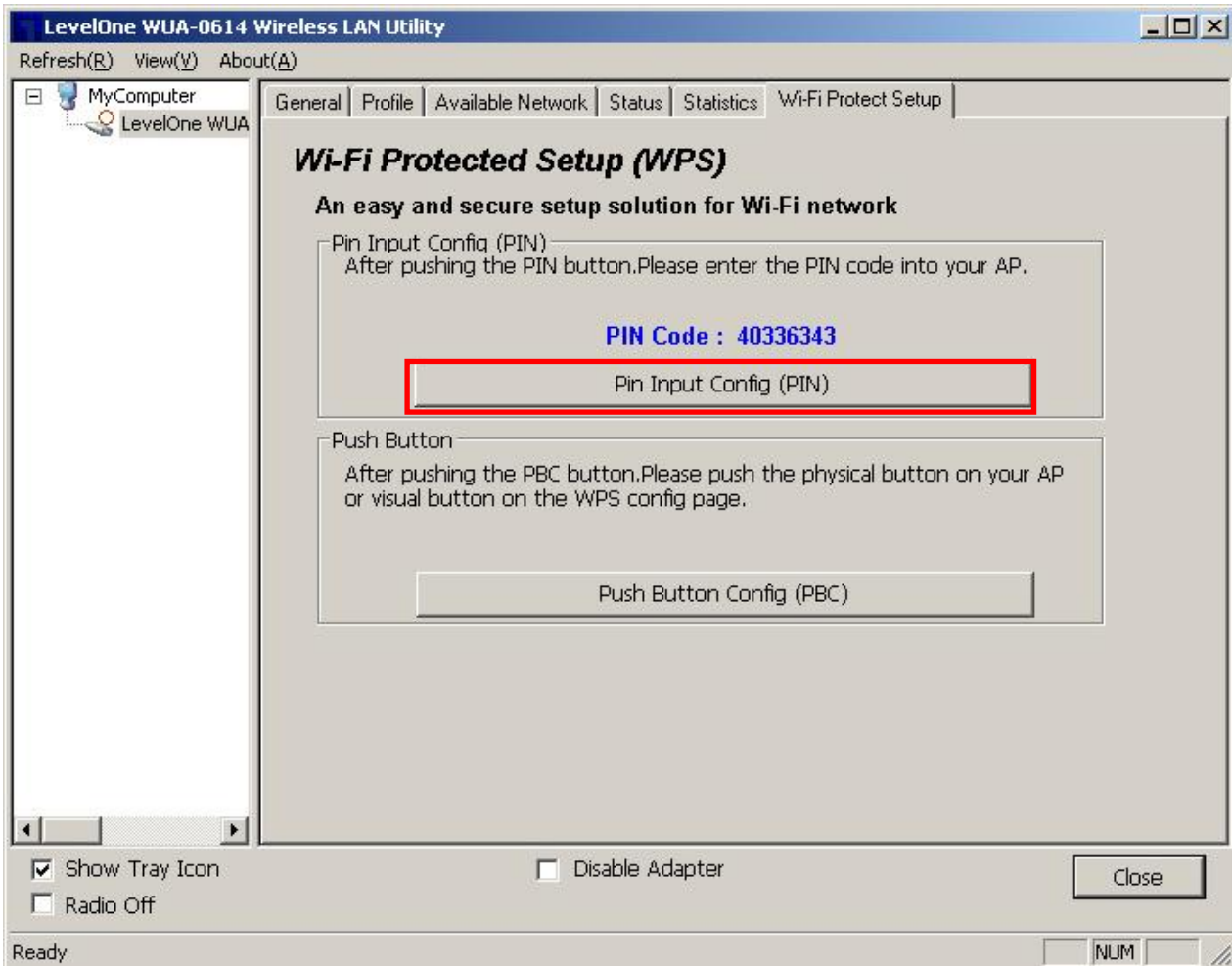
Item	Setting
▶ WPS	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
▶ AP PIN	87304749 <input type="button" value="Generate New PIN"/>
▶ Config Mode	<input type="text" value="Registrar"/>
▶ Config Status	CONFIGURED <input type="button" value="Release"/>
▶ Config Method	<input type="text" value="PIN Code"/> <input type="text" value="40336343"/>
▶ WPS status	Not in Use

At the bottom of the configuration area are three buttons: 'Save', 'Trigger', and 'Cancel'.

Screen Capture is from LevelOne WBR-6020
Different models/brands will have varying configuration screens.

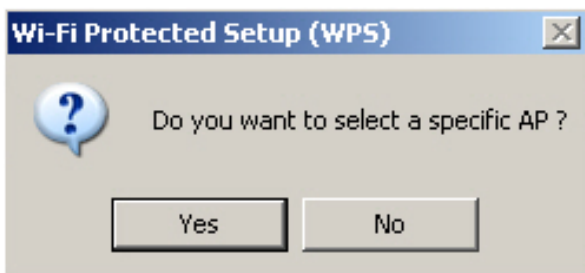
Step 3:

Now press the “Pin Input Config (PIN)” Button.



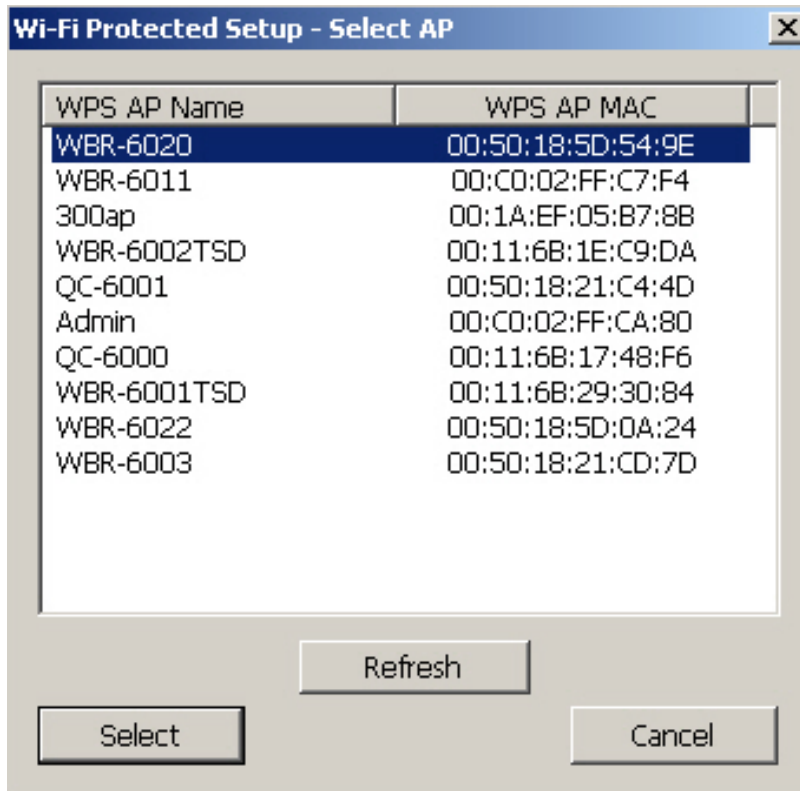
Step 4:

Select “Yes” if you want to select your Router / Access Point.



Step 4:

Select the desired Router / AP Name and then click on " **Select** " button.

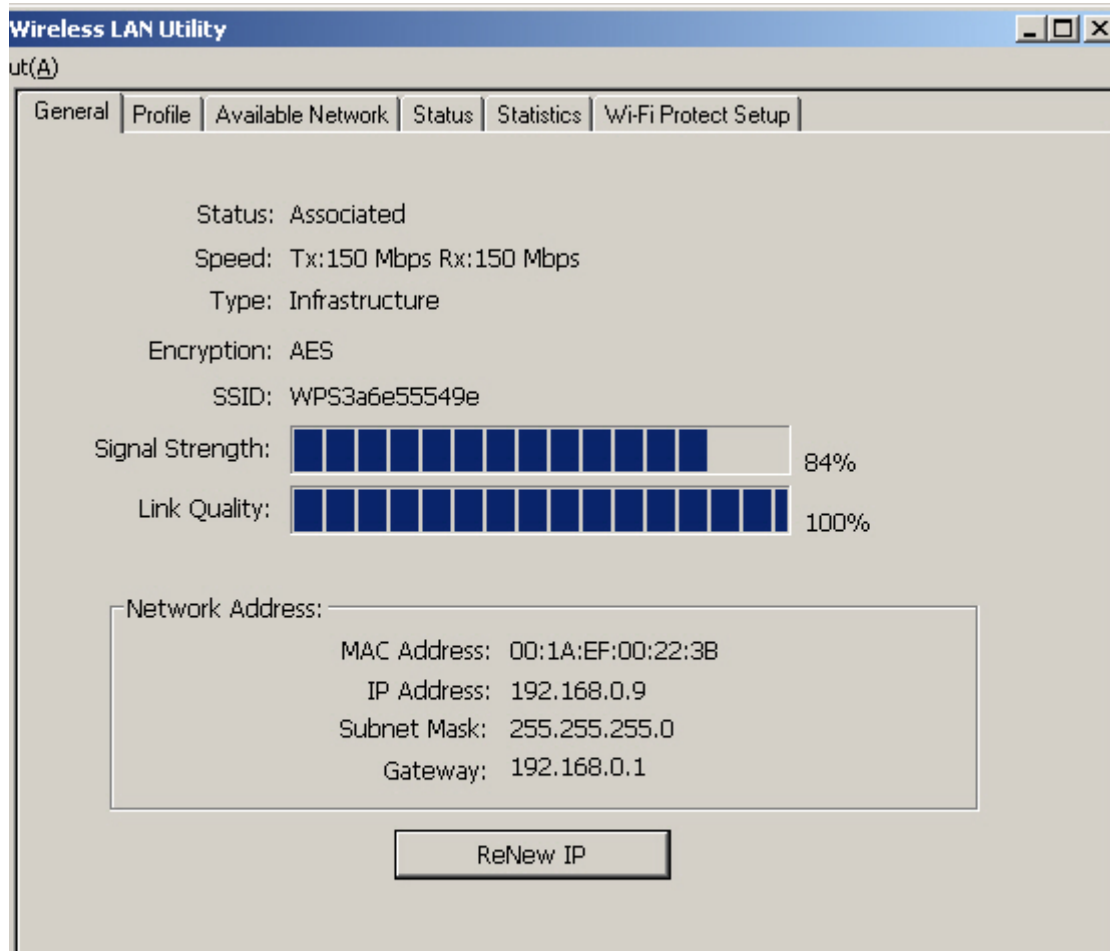


Step 6:

The Wireless LAN Utility will start pairing process.



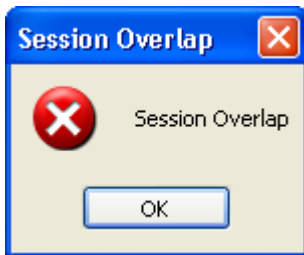
When paired successfully, wireless encryption security will be applied to the connection.



Troubleshooting

Session Overlap

If there is more than one AP on the PBC mode, there will be [Session Overlap]. Please use the PIN method or wait for a while and push the button again.



TimeOut

If you see the message below while doing WPS!! Please retry again!



Wireless LAN Utility appears twice

The Wireless LAN Utility may appear twice when using Windows Vista.

Please reboot your computer to fix this error.



Appendix A

Specifications



Wireless USB Adapter

Standards:	IEEE 802.11b, IEEE 802.11g, 802.11n compliant
Computer Slot Type:	USB
LED:	1 LED: Link/Active
Tx:	1
Rx:	1
Data Rates:	
802.11n:	20 MHz BW(LGI): 65, 58.5, 52, 39, 26, 19.5, 13 6.5 40 MHz BW(LGI): 135, 121.5, 108, 81, 54, 40.5, 27, 13.5 20 MHz BW(SGI): 72.2, 65, 57.8, 43.4, 28.9, 21.7, 14.4, 7.2 40 MHz BW(SGI): 150, 135, 120, 90, 60, 45, 30, 15
802.11g:	54, 48, 36, 24, 18, 12, 9 and 6 Mbps
802.11b:	11, 5.5, 2 and 1 Mbps
Operating Channels:	11 for North America, 13 for Europe and Japan
Operating Frequency:	2.4 ~ 2.4835 GHz
Modulation Technique:	
802.11n:	BPSK, QPSK, 16-QAM, 64-QAM
802.11g:	OFDM
802.11b:	CCK,QPSK,BPSK
Media Access Protocol:	CSMA/CA
Operating Voltage:	5V +/- 5%
Transmit Power:	802.11n: 13 +/- 1 dBm 802.11g: 13 +/- 1 dBm 802.11b: 17 +/- 1 dBm
Security:	WPA/WPA2; 128-bit TKIP/AES encryption, 40/64-, 128-bit WEP shared-key encryption 802.1x, and EAP-TLS, and PEAP authentication, WPS
OS Requirements:	Windows /XP/2000/7

Appendix B

About Wireless LANs



This Appendix provides some background information about using Wireless LANs (WLANs).

Modes

Wireless LANs can work in either of two (2) modes:

- Ad-hoc
- Infrastructure

Ad-hoc Mode

Ad-hoc mode does not require an Access Point or a wired (Ethernet) LAN. Wireless Stations (e.g. notebook PCs with wireless cards) communicate directly with each other.

Infrastructure Mode

In Infrastructure Mode, one or more Access Points are used to connect Wireless Stations (e.g. Notebook PCs with wireless cards) to a wired (Ethernet) LAN. The Wireless Stations can then access all LAN resources.



Access Points can only function in "Infrastructure" mode, and can communicate only with Wireless Stations which are set to "Infrastructure" mode.

BSS/ESS

BSS

A group of Wireless Stations and a single Access Point, all using the same ID (SSID), form a Basic Service Set (BSS).

Using the same SSID is essential. Devices with different SSIDs are unable to communicate with each other.

ESS

A group of Wireless Stations, and multiple Access Points, all using the same ID (ESSID), form an Extended Service Set (ESS).

Different Access Points within an ESS can use different Channels. In fact, to reduce interference, it is recommended that adjacent Access Points SHOULD use different channels.

As Wireless Stations are physically moved through the area covered by an ESS, they will automatically change to the Access Point which has the least interference or best performance. This capability is called **Roaming**. (Access Points do not have or require Roaming capabilities.)

Channels

The Wireless Channel sets the radio frequency used for communication.

- Access Points use a fixed Channel. You can select the Channel used. This allows you to choose a Channel which provides the least interference and best performance. In the USA and Canada, 11 channels are available. If using multiple Access Points, it is better if adjacent Access Points use different Channels to reduce interference.
- In "Infrastructure" mode, Wireless Stations normally scan all Channels, looking for an Access Point. If more than one Access Point can be used, the one with the strongest signal is used. (This can only happen within an ESS.)
- If using "Ad-hoc" mode (no Access Point), all Wireless stations should be set to use the same Channel. However, most Wireless stations will still scan all Channels to see if there is an existing "Ad-hoc" group they can join.

WEP & WPA-PSK

Both WEP and WPA-PSK are standards for encrypting data before it is transmitted.

This is desirable because it is impossible to prevent snoopers from receiving any data which is transmitted by your Wireless Stations. But if the data is encrypted, then it is meaningless unless the receiver can decrypt it.

WPA-PSK is a later standard than WEP, and is more secure.

WPA2-PSK

This is a later version of WPA (WPA-PSK). The major change is the use of AES (Advanced Encryption System) for protecting data. AES is very secure, considered to be unbreakable. The PSK (Pre-shared Key) must be entered on each Wireless station.

If WPA2-PSK is used, the Wireless Stations and the Access Point must have the same settings for each of the following:

WPA2 PSK (Pre-shared Key)	Enter the same value on every station and the AP. The PSK must be from 8 to 63 characters in length. The 256Bit key used for the actual encryption is derived from this key.
Encryption	The same encryption method must be used. The most common encryption method is TKIP. Another widely-supported method is AES.

Wireless LAN Configuration

To allow Wireless Stations to use the Access Point, the Wireless Stations and the Access Point must use the same settings, as follows:

- | | |
|---------------------|--|
| Mode | On client Wireless Stations, the mode must be set to "Infrastructure". (The Access Point is always in "Infrastructure" mode.) |
| SSID (ESSID) | Wireless Stations should use the same SSID (ESSID) as the Access Point they wish to connect to. Alternatively, the SSID can be set to "any" or null (blank) to allow connection to any Access Point. |
| Security | <p>The Wireless Stations and the Access Point must use the same settings for Wireless security (Disabled, WEP, WPA-PSK, WPA2-PSK, WPA 802.1x, WPA2 802.1x, WEP 802.1x)</p> <ul style="list-style-type: none">• If Wireless security remains disabled on the Access Point, all stations must have wireless security disabled.• If Wireless security is enabled on the Access Point, each station must use the same settings. |