

WLAN 802.11G USB ADAPTER

User's Guide

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Regulatory Information

Federal Communication Commission Interference Statement

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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

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

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA

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1. Welcome

Thank you for purchasing our 802.11g USB 2.0 Adapter, and welcome to Wireless LAN—the easy way to wireless networking.

This user's guide introduces to you the 802.11g USB 2.0 Adapter and describes the most common configurations, which will help you connect to your network easily. Please read this manual to get familiar with the IEEE802.11g Wireless LAN. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

1.1 Kit Contents

- One 802.11g USB 2.0 Adapter
- One Software CD:
 - (1) Utility & Driver Installation Software
 - (2) User Manual PDF File
- Quick Start Guide

1.2 Main Features of 802.11g USB 2.0 Adapter

Status LED

- **Off:** Power Off.
- **Blinking:** The USB adapter is powered on but no wireless connection is made yet.
- **Steady Green:** Wireless connection is linked.

802.11g USB 2.0 Adapter features

- High-speed wireless connection, up to 54 Mbps
- IEEE802.11 g (DSSS) standard for 2.4 GHz Wireless LAN
- Plug-and-Play installation
- Solid design with an integrated antenna
- Full mobility and seamless cell-to-cell roaming
- Automatic scale back at per packet level
- Super G™ (up to 108 Mbps data rate) and eXtended Range (XR) Technology

802.11g USB 2.0 Adapter supports

- Automatic load balancing for optimized bandwidth

- Advanced power management
- Windows® 2000 and XP

1.3 Wireless Networking Scenarios

As our 802.11g USB 2.0 Adapter is interoperable and compatible with other IEEE 802.11g compliant products from other manufacturers, it offers you the most freedom to establish your ideal wireless network. Therefore, after installing 802.11g USB 2.0 Adapter, you can connect your computer to:

- A Peer-to-Peer Workgroup of 802.11 g compliant wireless devices.
- A LAN (Local Area Network) constructed by Access Point(s) or other 802.11 g compliant systems.
- Share your Internet access by using just one connection, share printers and other peripheral devices, share data and image files between networked PCs, play multi-player games, and use other network enabled sharing resources.

Peer-to-Peer Networking:

An Ad Hoc Network could be easily set up with some PCs and this 802.11g USB 2.0 Adapter or our other WLAN devices. Therefore, it is very suitable to build a network for temporary use, such as for demonstration in exhibition, for new sales point/branch use and alike.

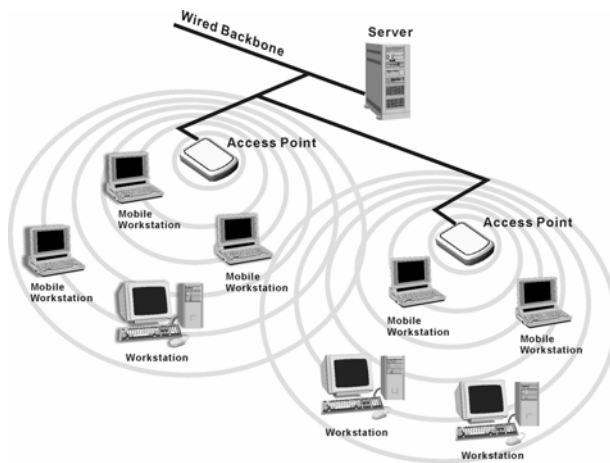


Cooperate LAN (Local Area Networking):

With some 802.11g USB 2.0 Adapters and Access Points, it is easy to construct a LAN with access to Internet for enterprise use.

The construction is quite easy that the 802.11g USB 2.0 Adapter and Access Point will automatically work at the most suitable frequency when Access Point is set within the proper range.

In addition, commonly manufacturers will bundle the Site-Survey tool for users to check the communication quality.



2. Quick Start to Wireless Networking

2.1 Installation

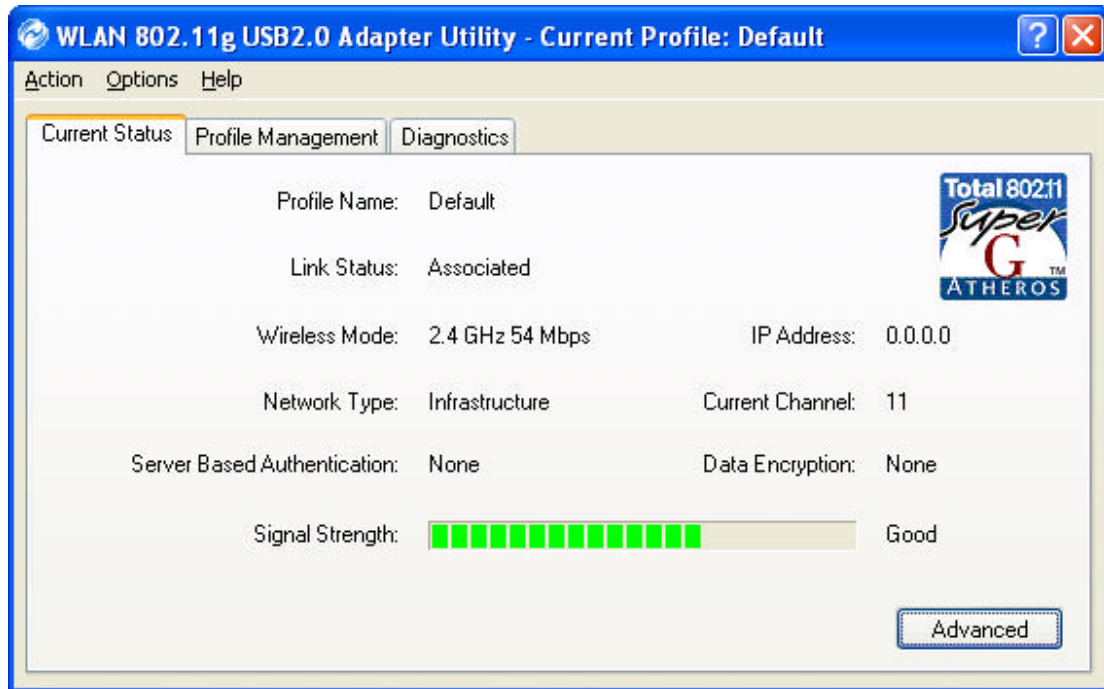
1. **Insert the installation CD.** It automatically starts the setup program for software installation.
2. **Follow the installation wizard** to complete the software installation process and restart your computer if necessary.
3. **Connect the WLAN 802.11g USB 2.0 Adapter** to your laptop PC/desktop PC.
4. Restart your PC.

NOTE! Select “Cancel” when Found New Hardware window appears.

NOTE! In Windows XP, it is recommended that you use the WLAN 802.11g USB2.0 Utility.

2.2 Connecting to an Existing Network

After restarting your PC, the adapter automatically connects to an unsecured network that has the best signal strength (if there's any). Go to windows Start > Programs > WLAN 802.11g USB2.0 Adapter > WLAN 802.11g USB2.0 Adapter Utility to open the utility. **Profile Name** shows default.



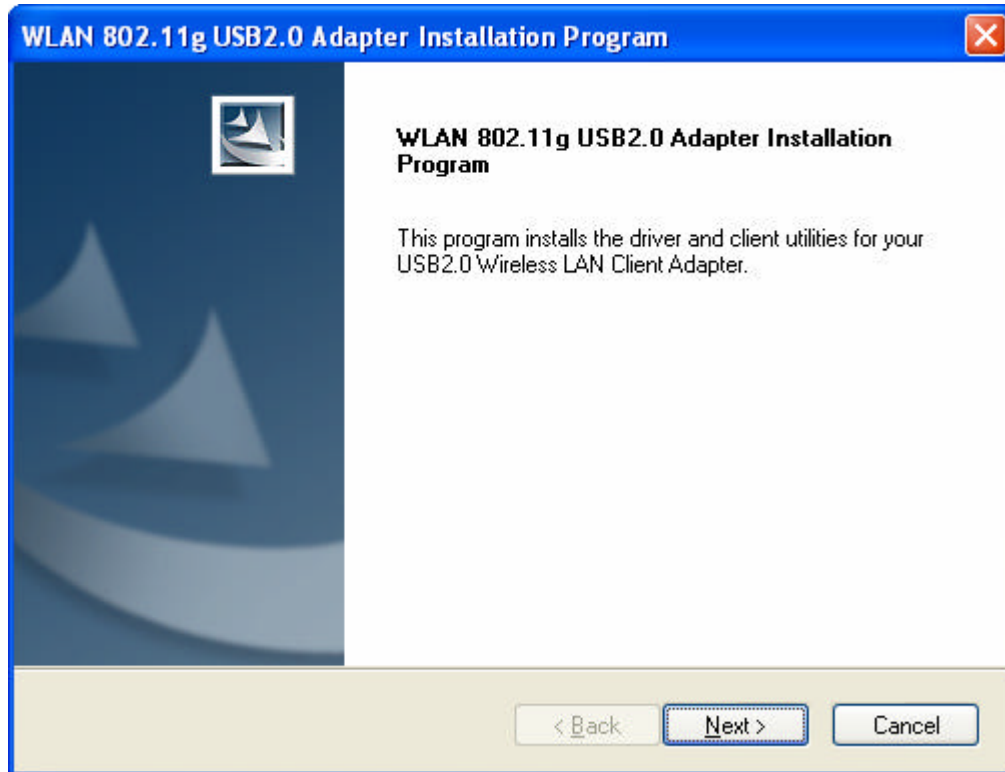
You may also manually assign a network to connect with. Follow the steps below:

1. Click **Profile Management** tab.
2. Click **Scan**, and **Available Infrastructure and Ad Hoc Networks** list appears.
3. Click the desired network **SSID** and click **Activate**.
4. Contact the network administrator for Profile Settings: **General**, **Security** and **Advanced**.
5. Once connected, the configuration icon in the Windows System Tray appears . You can click **Current Status** tab to check the connection status.
6. For details of each tab in WLAN 802.11g USB2.0 Adapter Utility, please read Chapter 4.

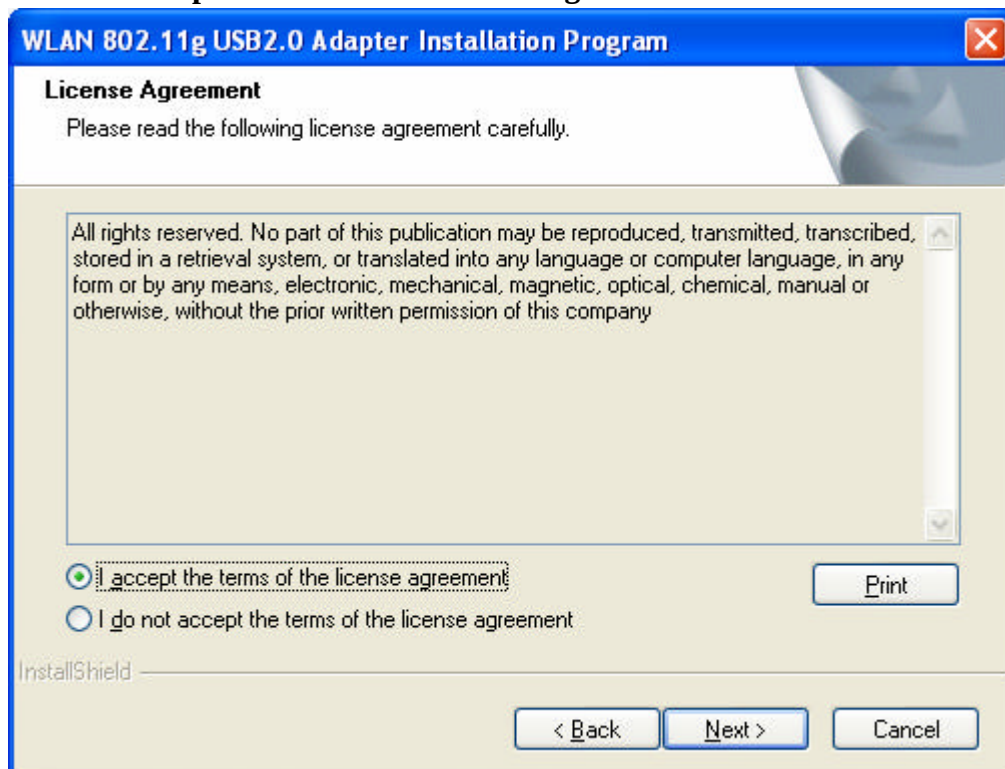
3. Step-by-Step Instructions

3.1 Installation

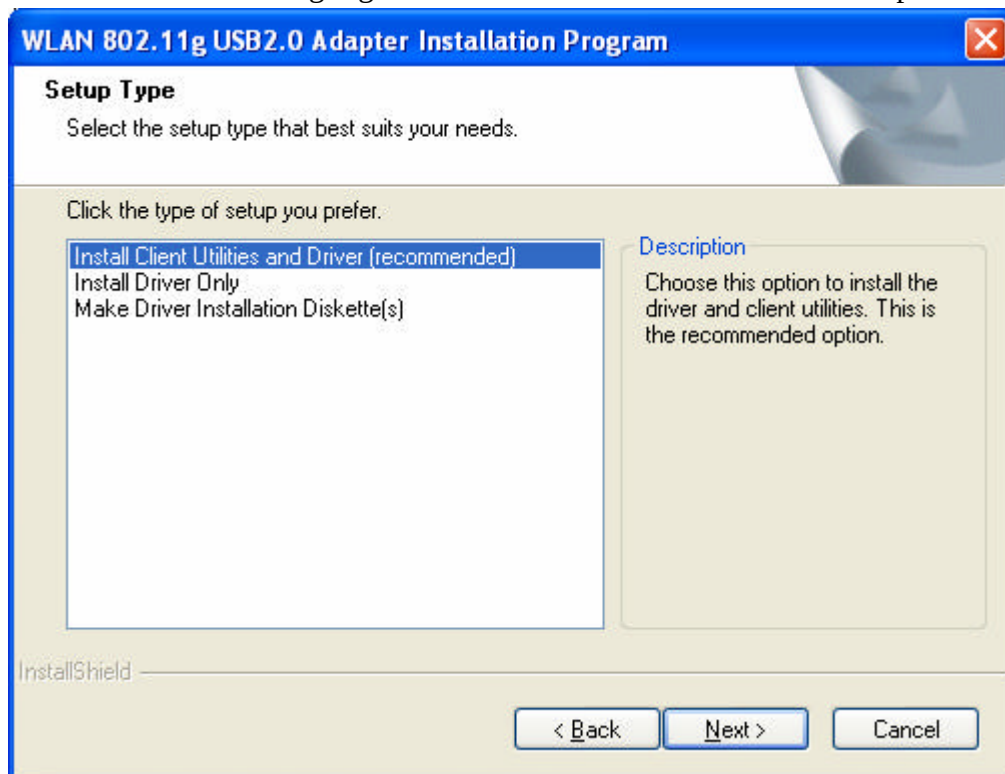
1. Insert the installation CD into your CD-ROM drive. Click **Next**.



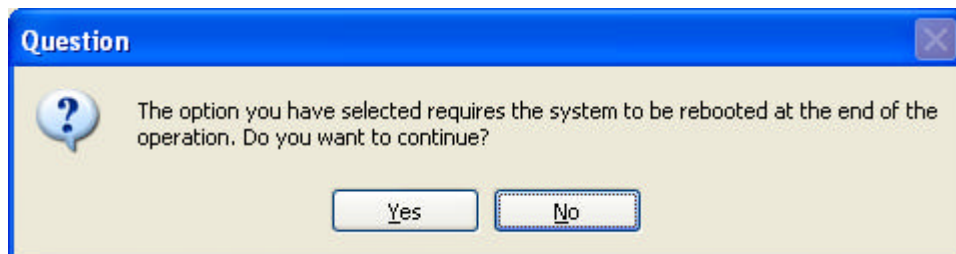
2. Select **"I accept the terms of the license agreement"** and click **Next**.



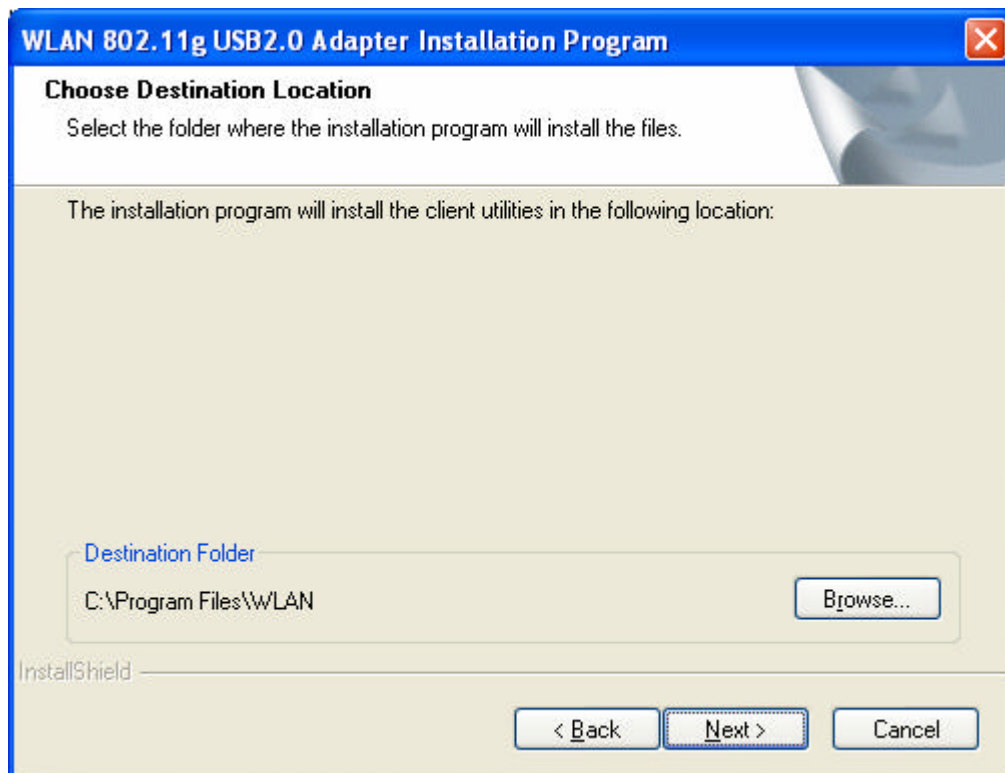
3. **Click Next.** You can highlight different items to choose different setup.



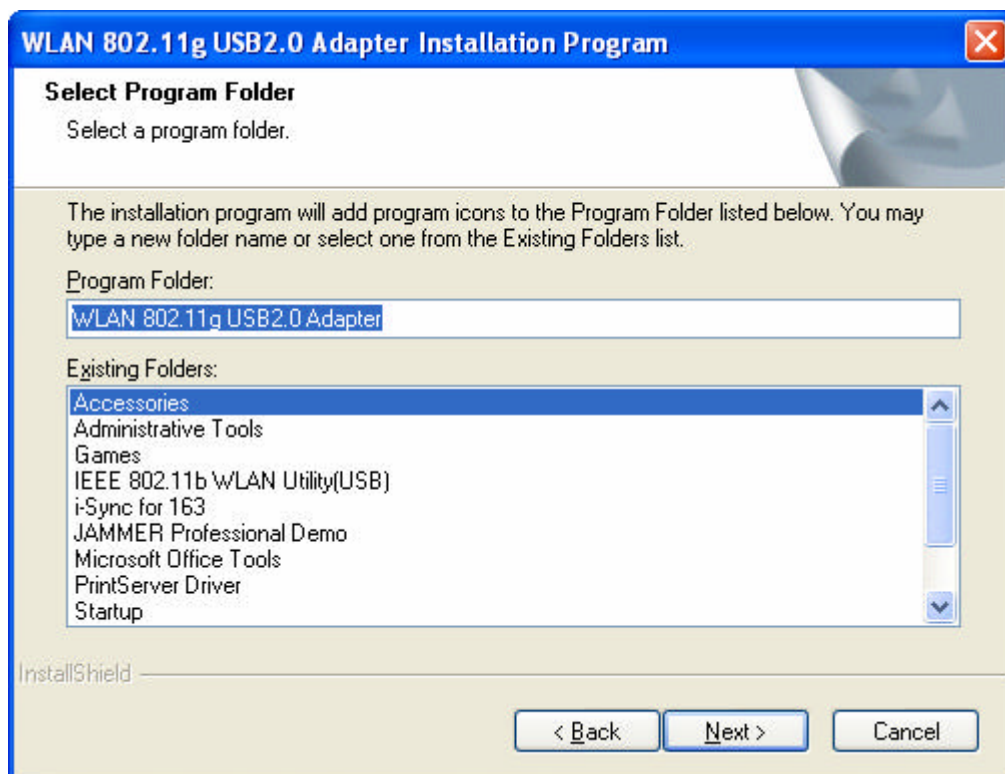
4. **Click Yes.** System reminds you the reboot step.



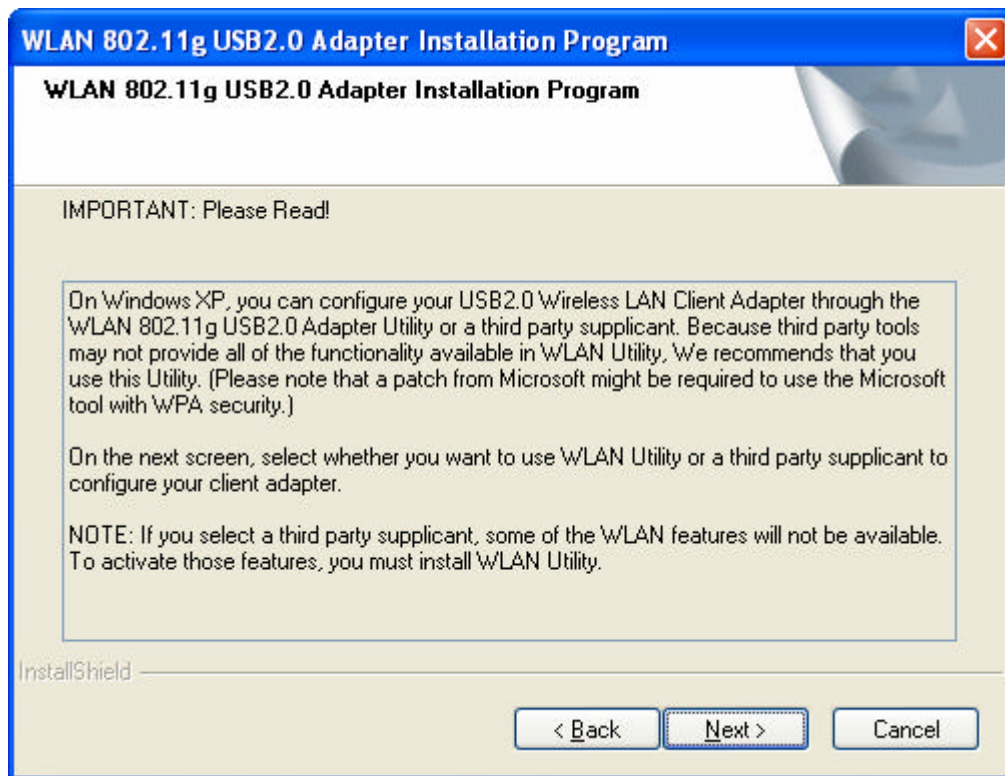
5. **Click Next.** Or click Browse to select the destination folder you prefer.



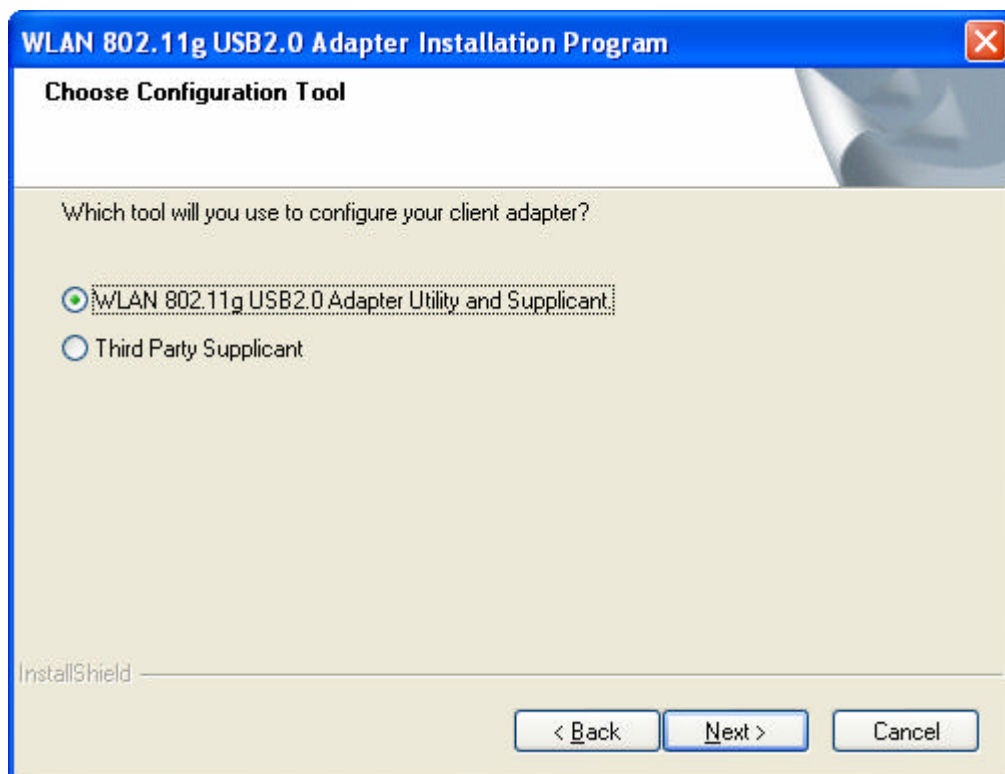
6. **Click Next.** Edit the Program Folder name if necessary.



7. Read the notice and **click Next**.



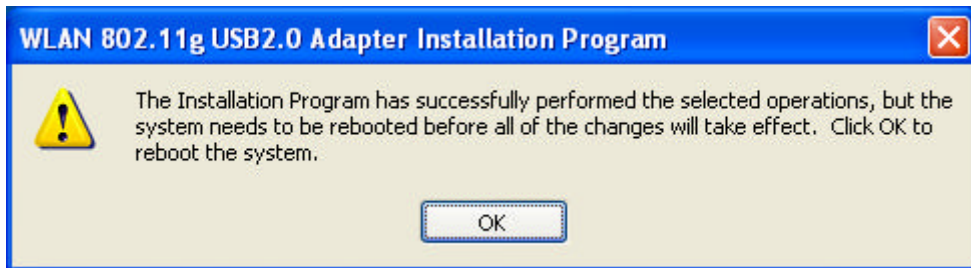
8. **Click Next**. WLAN 802.11g USB2.0 Adapter Utility is recommended.



9. **Insert the adapter and click OK.**



10. **Click OK** and your PC will restart.



11. A short-cut icon appears on the desktop of your PC.



NOTE! Select “Cancel” when Found New Hardware window appears.

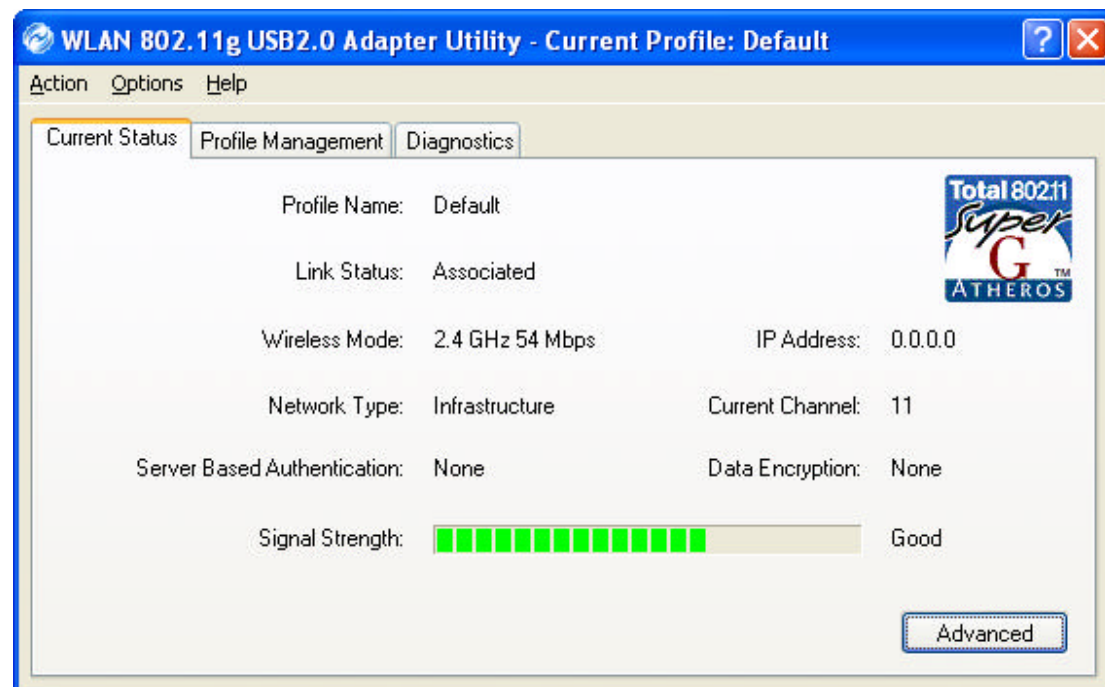
NOTE! In Windows XP, it is recommended that you use the WLAN 802.11g USB2.0 Utility.

3.2 Connecting to a network

NOTE! For details of Utility Configuration, please refer to Chapter 4.

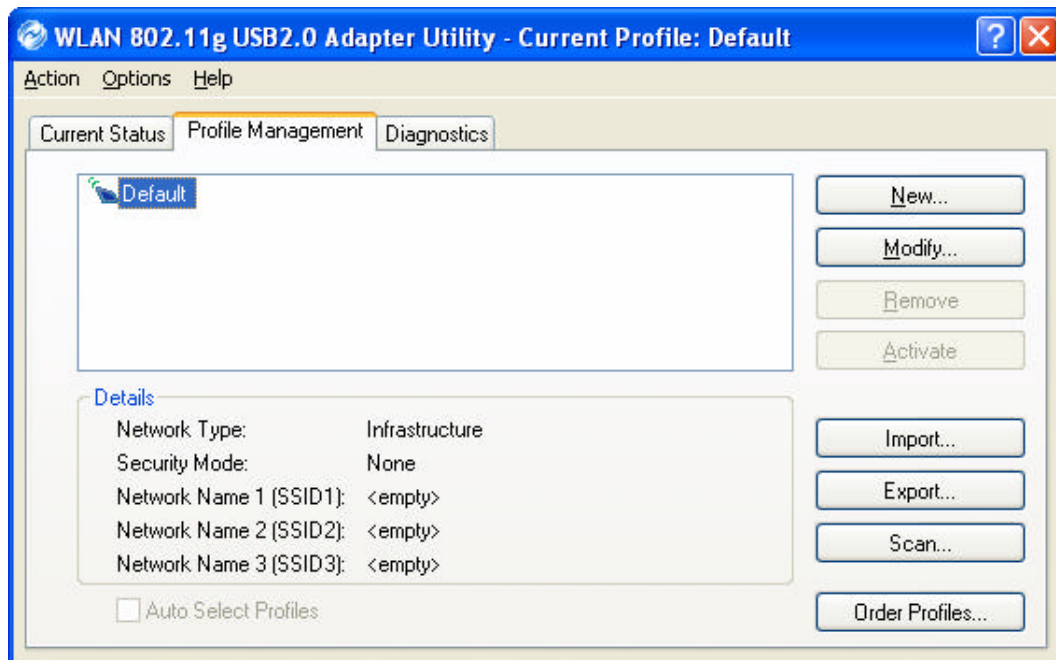
Status Icons	
	Low Signal Strength
	Medium Signal Strength
	High Signal Strength
	No Signal Strength
	Radio Off
	Ad Hoc Network
	Infrastructure Network
	Infrastructure Network Connected
	Profile Activated
	Secured

After restarting your PC, the adapter automatically connects to an unsecured network that has the best signal strength (if there's any). **Profile Name** shows Default.

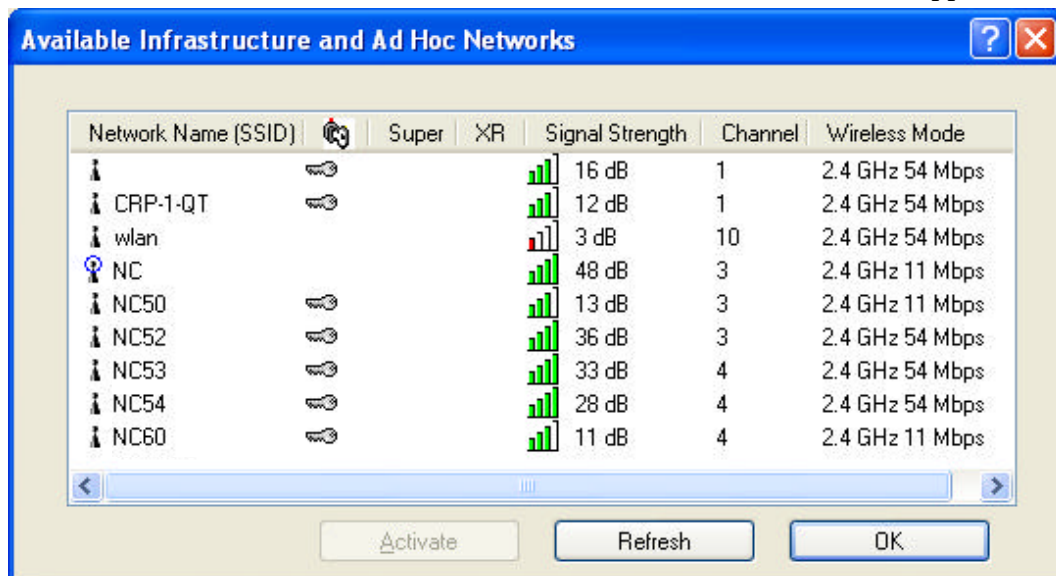


You may also manually assign a network to connect with. Follow the steps below:

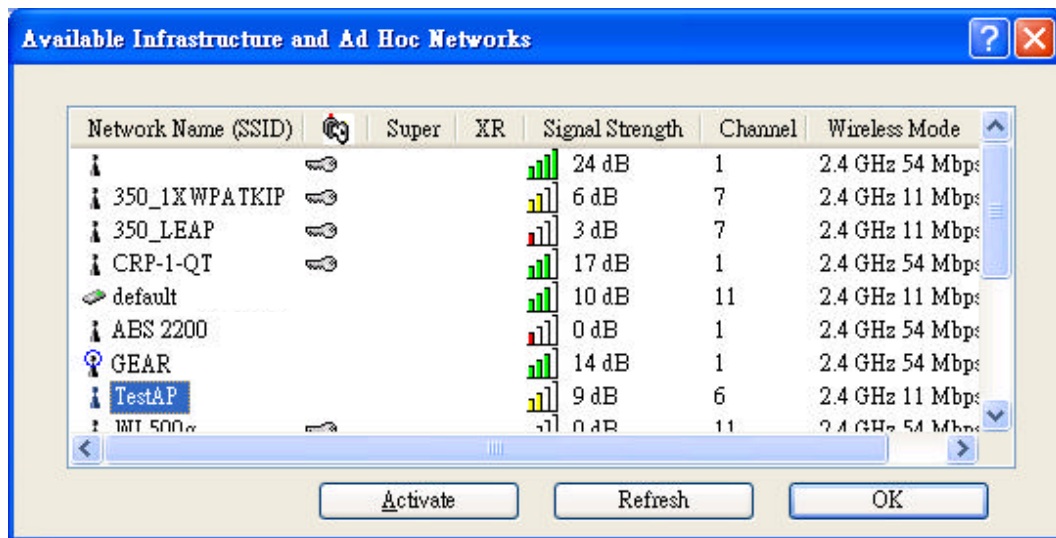
1. Open **WLAN 802.11g USB 2.0 Adapter Utility** (by double-clicking on the shortcut icon on the desktop), and click **Profile Management** tab.



2. Click **Scan**, and **Available Infrastructure and Ad Hoc Networks** list appears.

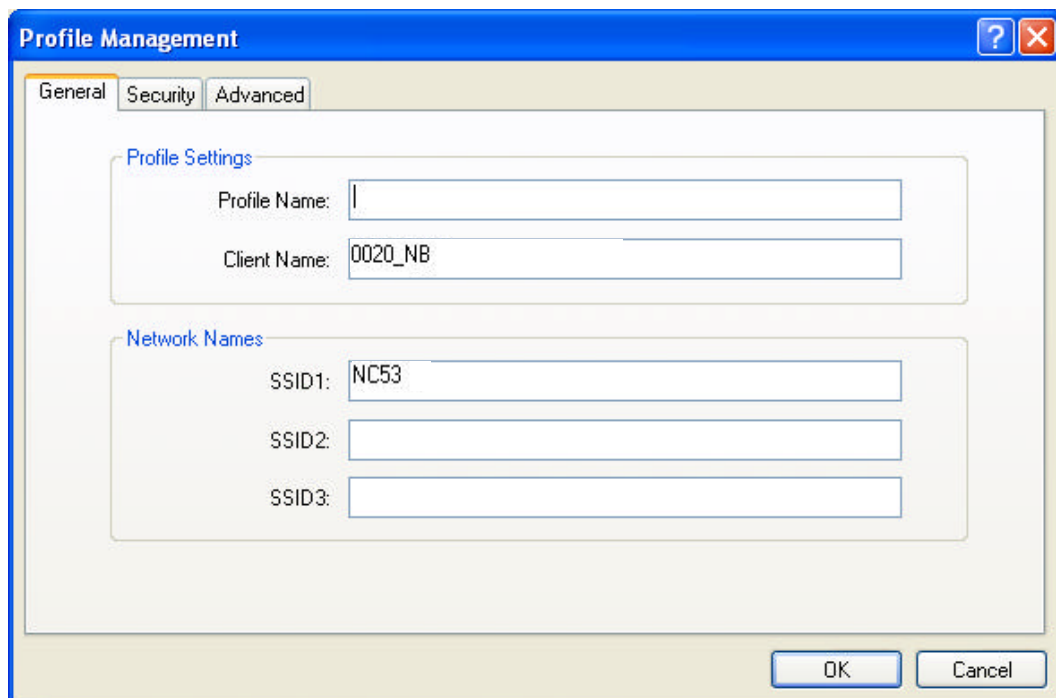


3. Click the desired network **SSID** and click **Activate**.

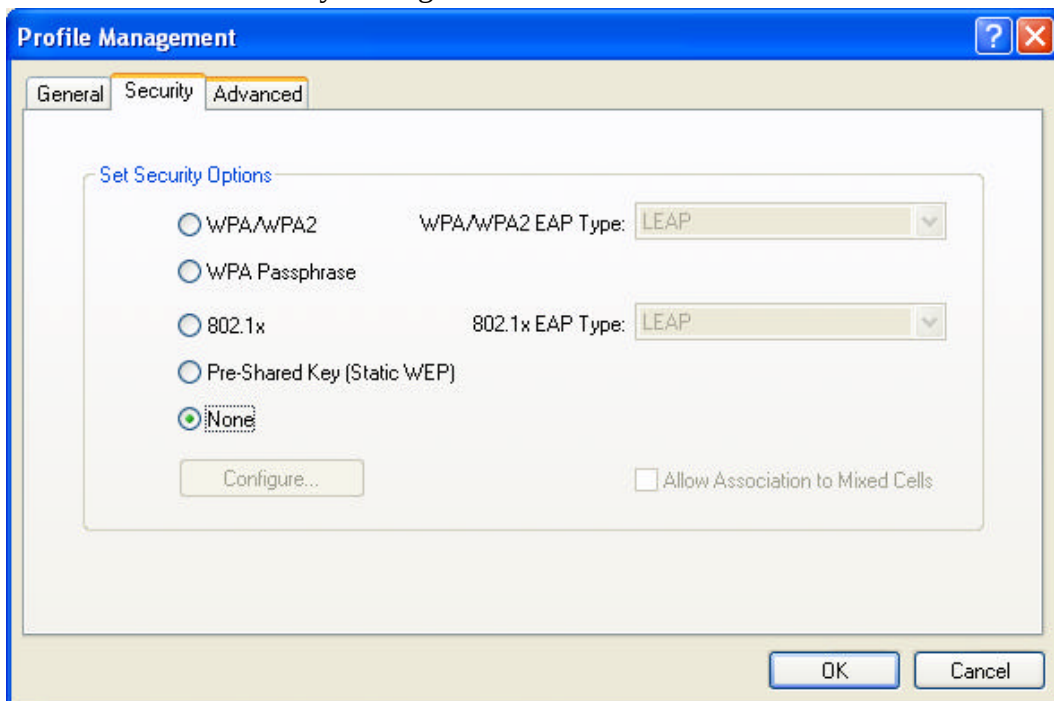


4. Contact the network administrator for Profile Settings: **General**, **Security** and **Advanced**.

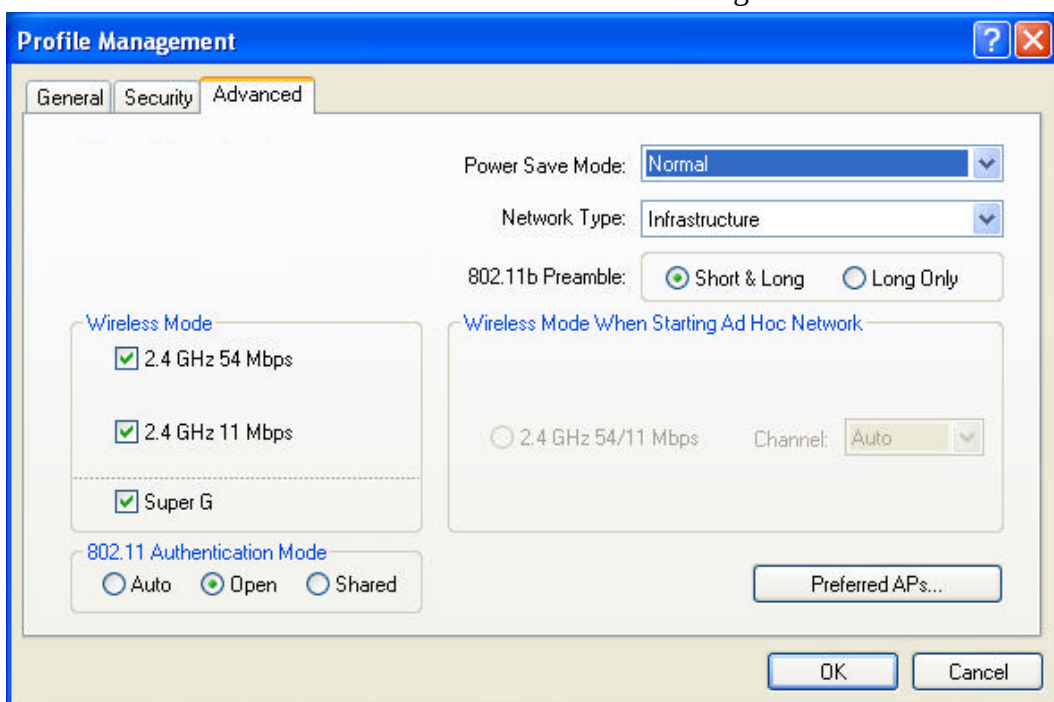
General Tab: Enter a Profile Name and SSID.



Security Tab: If the connected network is secured, contact the network administrator for Security Settings.



Advanced Tab: Click Advanced for other network settings.

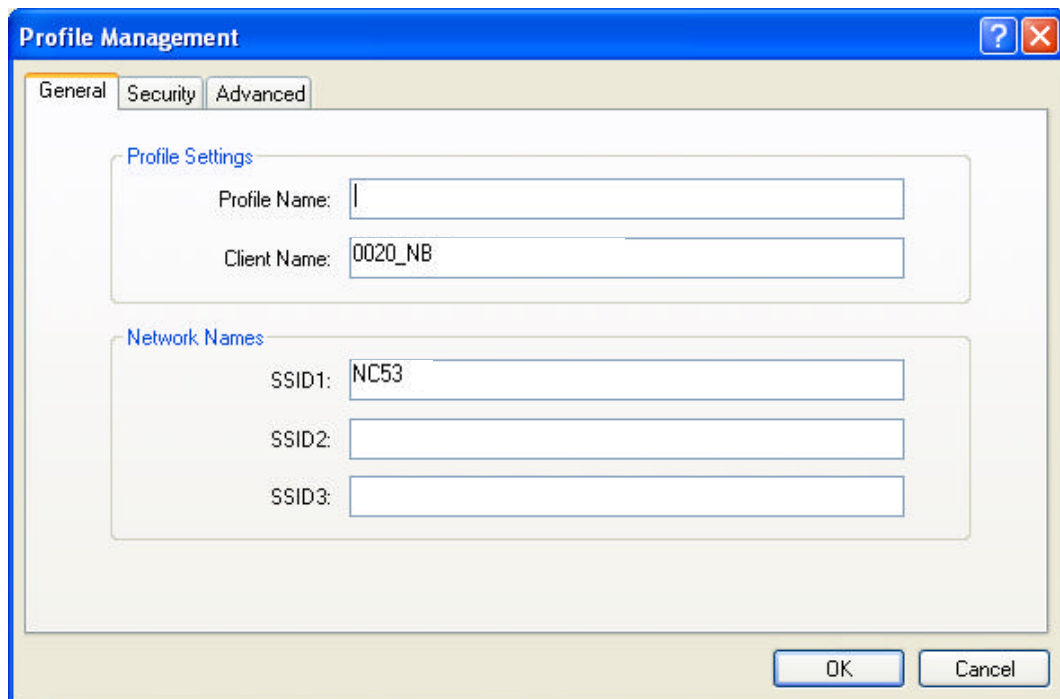
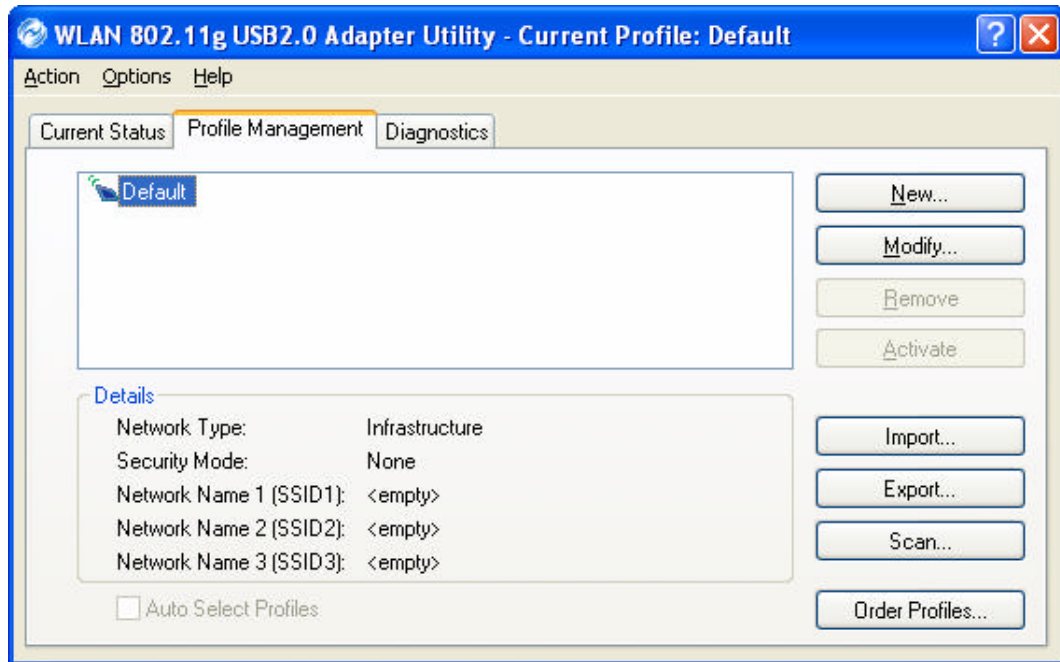


- Once connected, the status icon  in the Windows System Tray appears. You can click **Current Status** tab to check the connection status.

3.3 Creating an Ad Hoc Network

If you have more computers and only want to place them in a local area network, or you want to communicate directly without using an Access Point or any connection to a wired network, you can create a new Ad Hoc Network.

1. In **Profile Management** tab, click **New** button to create a profile.



2. Click **Advanced** to switch **Network Type** to **Ad Hoc**.

The screenshot shows the 'Profile Management' dialog box with the 'Advanced' tab selected. The 'General' tab is also visible. The 'Advanced' tab contains the following settings:

- Power Save Mode:** Off
- Network Type:** Ad Hoc
- 802.11b Preamble:** Long Only (selected)
- Wireless Mode:**
 - ☒ 2.4 GHz 54 Mbps
 - ☒ 2.4 GHz 11 Mbps
 - ☒ Super G
- Wireless Mode When Starting Ad Hoc Network:**
 - ☒ 2.4 GHz 54/11 Mbps
 - Channel: Auto
- 802.11 Authentication Mode:** Open (selected)
- Preferred APs...** button

Buttons: OK, Cancel

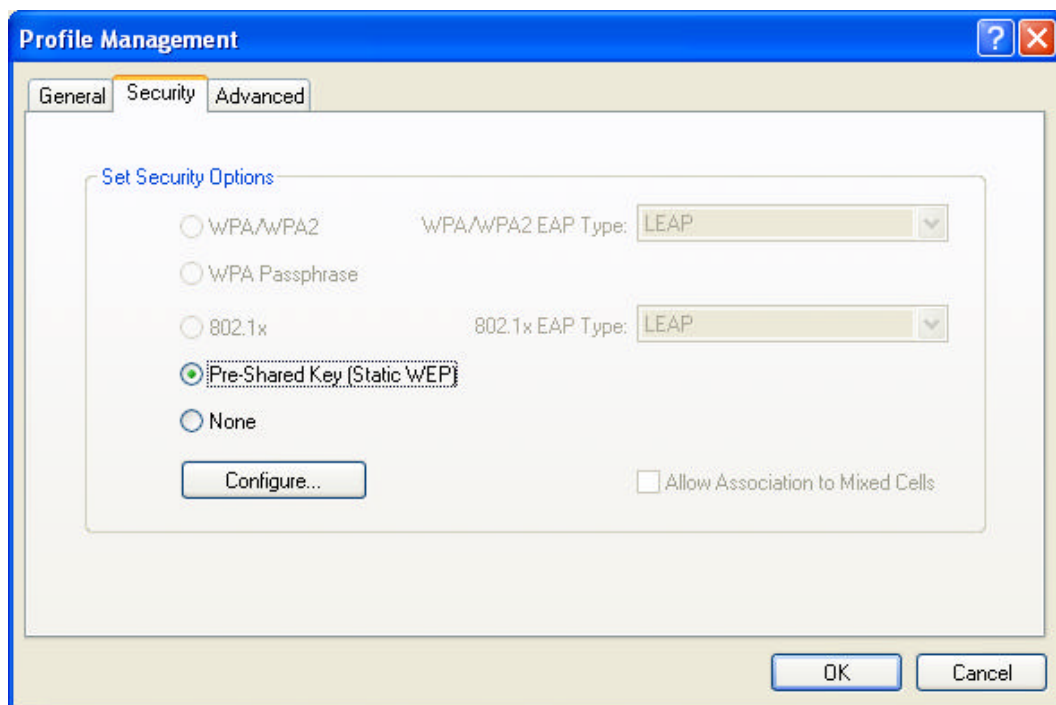
3. Click **General** to edit the Profile and SSID1 names.

The screenshot shows the 'Profile Management' dialog box with the 'General' tab selected. The 'Advanced' tab is also visible. The 'General' tab contains the following settings:

- Profile Settings:**
 - Profile Name:** [Empty text box]
 - Client Name:** 0020_NB
- Network Names:**
 - SSID1:** NC53
 - SSID2:** [Empty text box]
 - SSID3:** [Empty text box]

Buttons: OK, Cancel

4. Click **Security** to configure security options.



5. Click **OK** button.

3.4 Removing your 802.11g USB 2.0 Adapter

You can remove the device after you finished the action with the device. Please follow the safe removal procedure. You can find a safe removal icon in your computer's notification area.

1. Double click the **Safely Remove Hardware** icon.

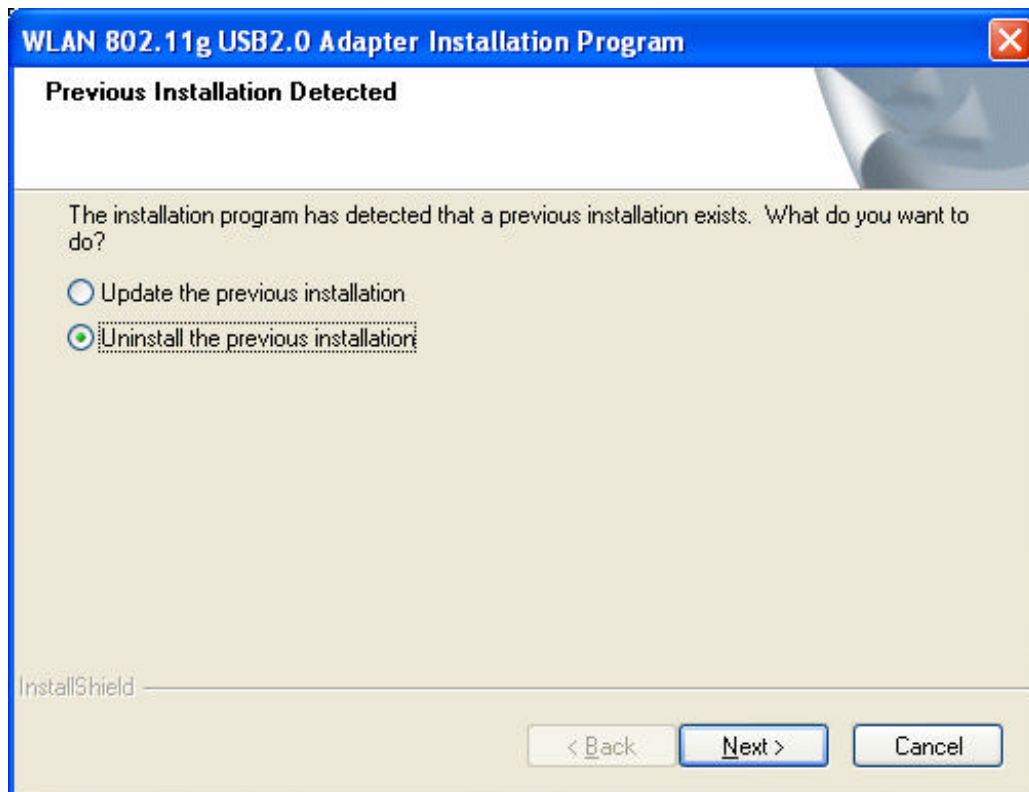


2. The “**Safely Remove Hardware**” window will pop up. You can select the device you want to remove. Then, click the “**Stop**” button.

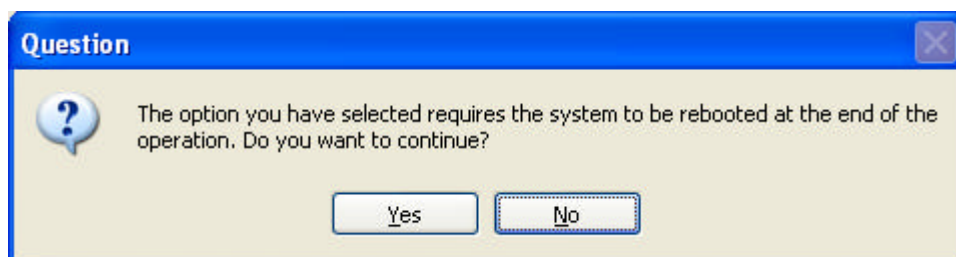
NOTE! When removing the WLAN 802.11g USB 2.0 Adapter, you will lose your connection to the network. Make sure you have closed all files and network applications (such as e-mail) before removing the WLAN 802.11g USB 2.0 Adapter.

3.5 Uninstallation

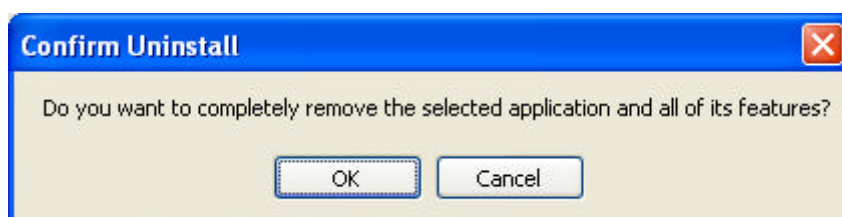
1. Make sure the Utility is closed.
2. Go to Star → Programs → WLAN 802.11g USB2.0 Adapter → Uninstall Utility.
3. Choose “Uninstall the previous installation” and click **Next**.



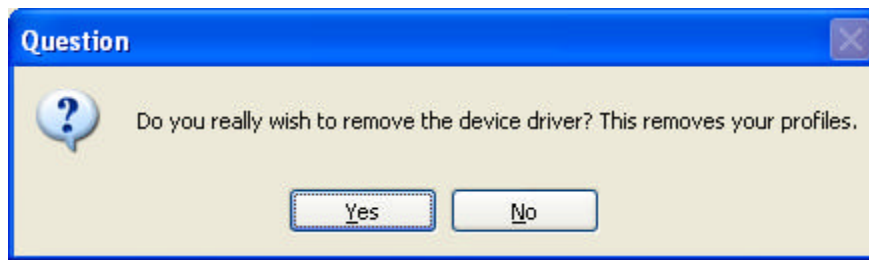
4. Click **Yes**.



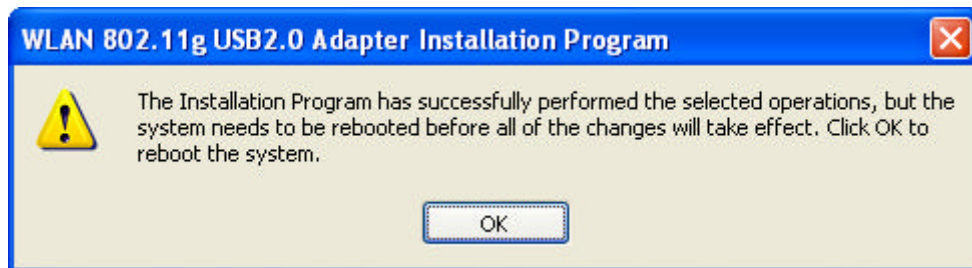
5. Click **OK**.



6. Click **Yes**.



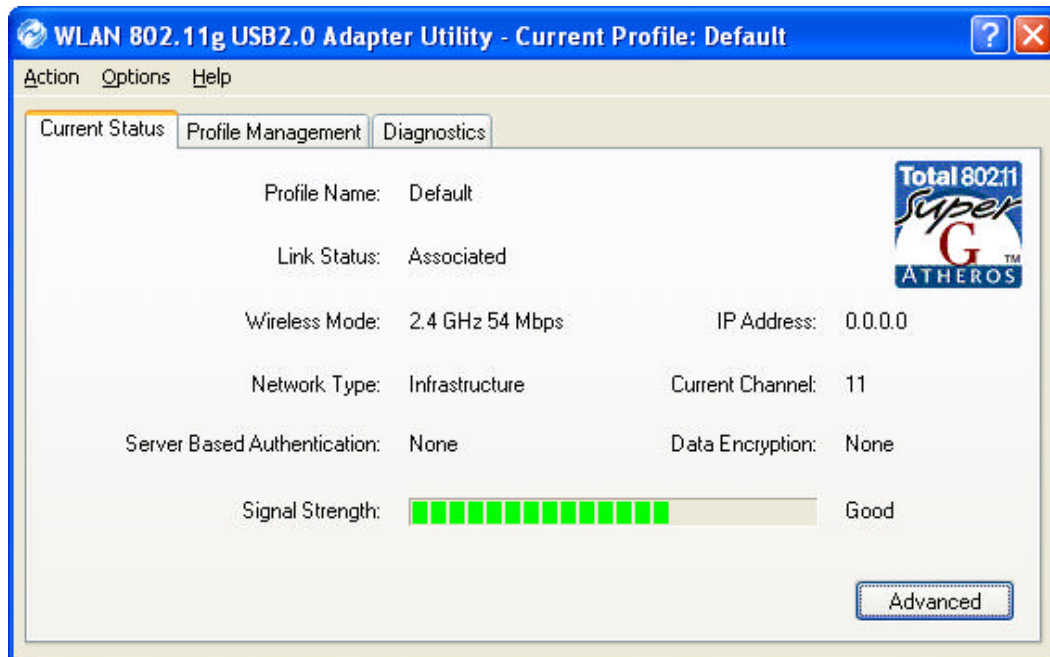
7. Click **OK**, and your PC will restart. Uninstallation is finished.



4. Using the Utility

4.1 Current Status

The Current Status tab contains general information about the program and its operations.



- **Profile Name:** The name of the current selected configuration profile. If you see Default in Profile Name, it is because you do not assign a specific SSID, and the adapter automatically searches and connects to the most suitable network. You can configure the profile name through Profile Management → Modify → General.
- **Link Status:** Shows whether or not the station is associated to the wireless network.
- **Wireless Mode:** Displays the wireless mode. You can configure the wireless mode through Profile Management → Modify → Advanced.
- **IP Address:** Displays the computer's IP address.
- **Network Type:** The type of network the station is connected to. The options include infrastructure and Ad Hoc. You can configure the network type through Profile Management → Modify → Advanced.
- **Current Channel:** Shows the currently connected channel.
- **Server Based Authentication:** Shows whether server based authentication is used.
- **Data Encryption:** Displays the encryption type the driver is using. You can configure Data Encryption through Profile Management → Modify → Security.
- **Signal Strength:** Shows the strength of the signal.