

AMD WLAN Card

User Manual

Version: 0.1

RD Draft

FCC Class B Radio Frequency Interference Statement

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 or more of the following measures:

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

The user should not modify or change this equipment without written approval from Fi Win, Inc. Modification could void authority to use this equipment.

Notice 1:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2:

To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user' s authority to operate the device.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS 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 INTERFEERENCE THAT MAY CAUSE UNDESRIED OPERATION

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Chapter 1. Introduction

WLAN Management Utility supports the following:

802.11b WLAN Configuration

Windows 98SE / ME / 2000

(In Windows XP, we use its default WLAN Utility)

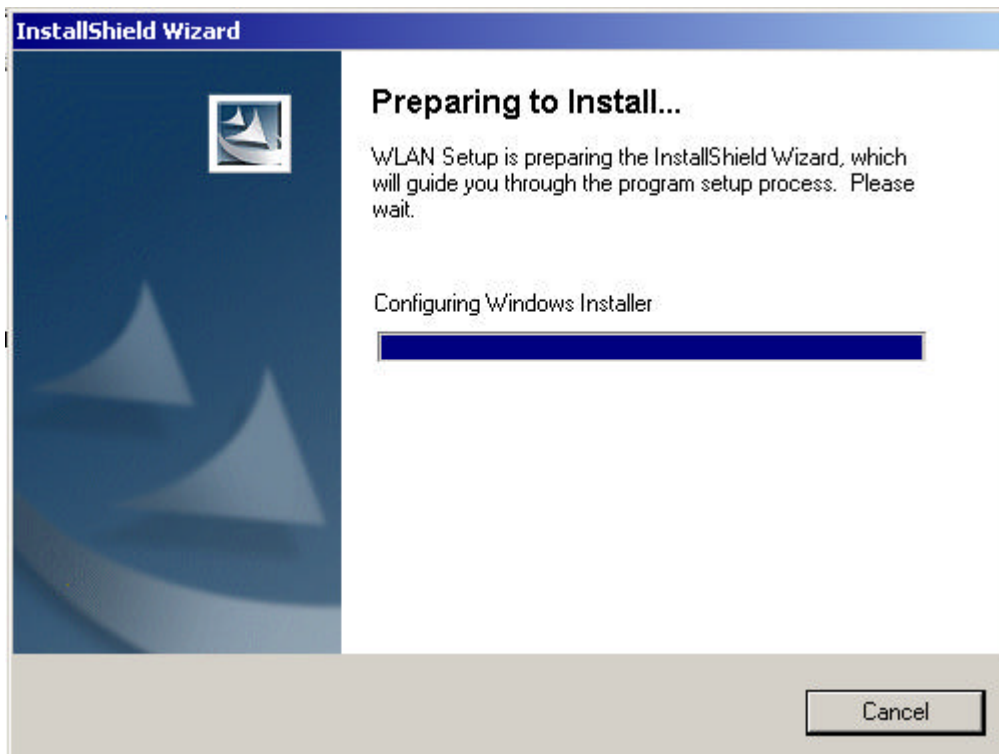
Card Bus / Mini-PCI Bus Interface

Chapter 2. Installation

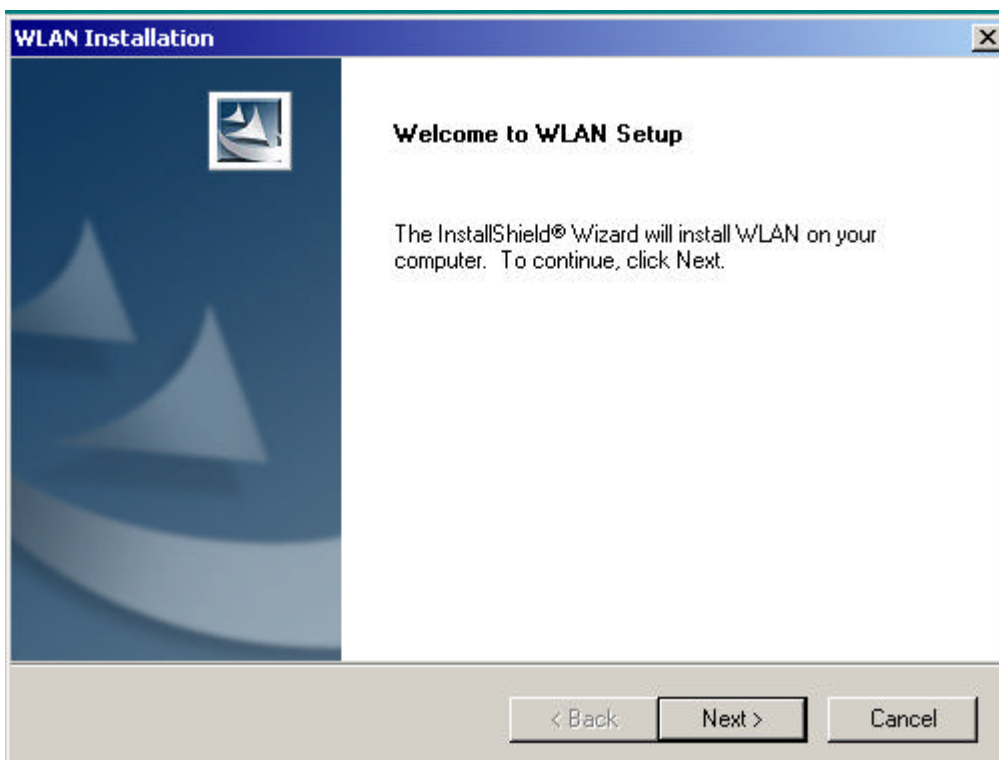
2.1 Installation / Uninstallation

2.1.1 Installation

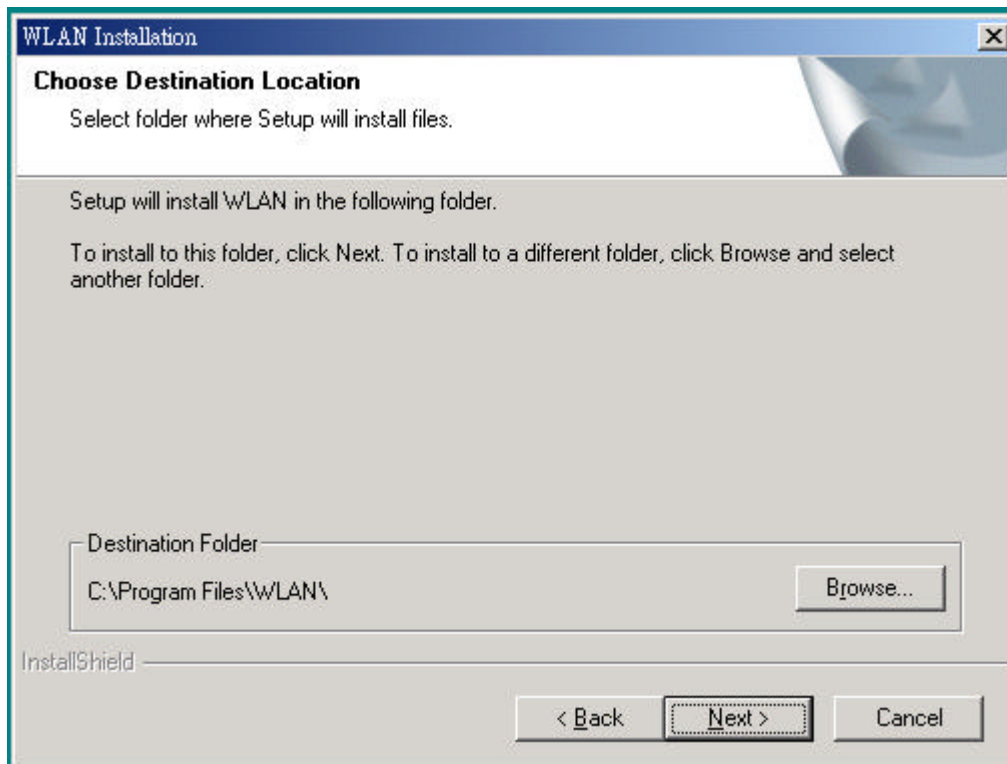
1. Insert the installation CD into your CD-ROM drive. The setup program will start automatically.



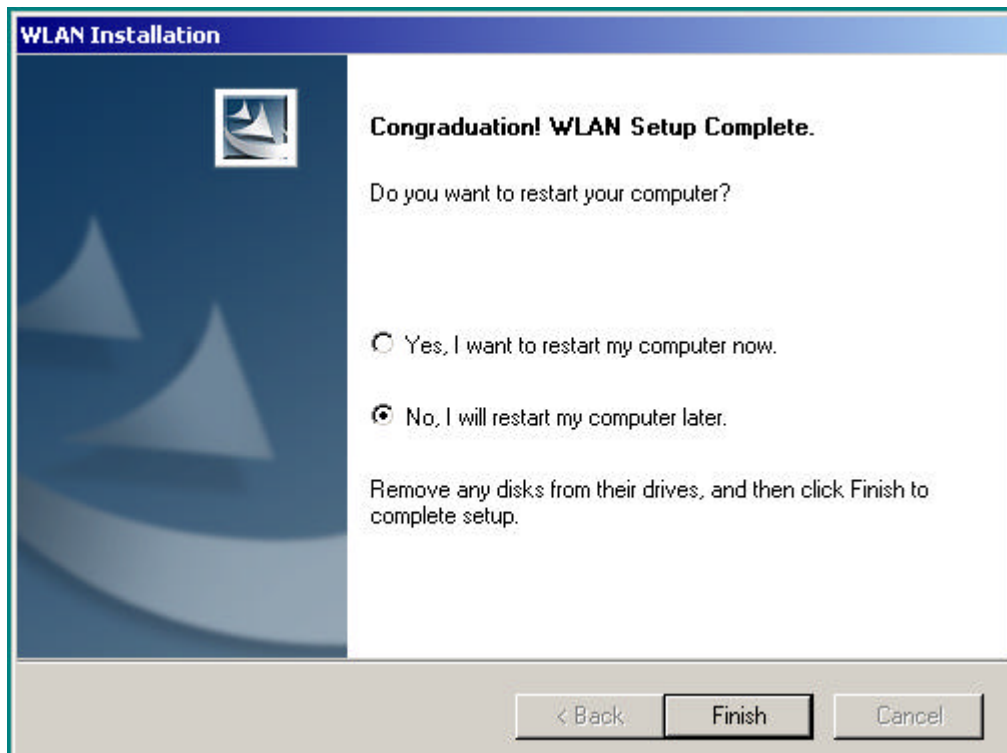
2. Click "Next" to go to next screen.



3. Select the destination folder. To install to the default folder as shown below, click "Next" to go to the next screen.



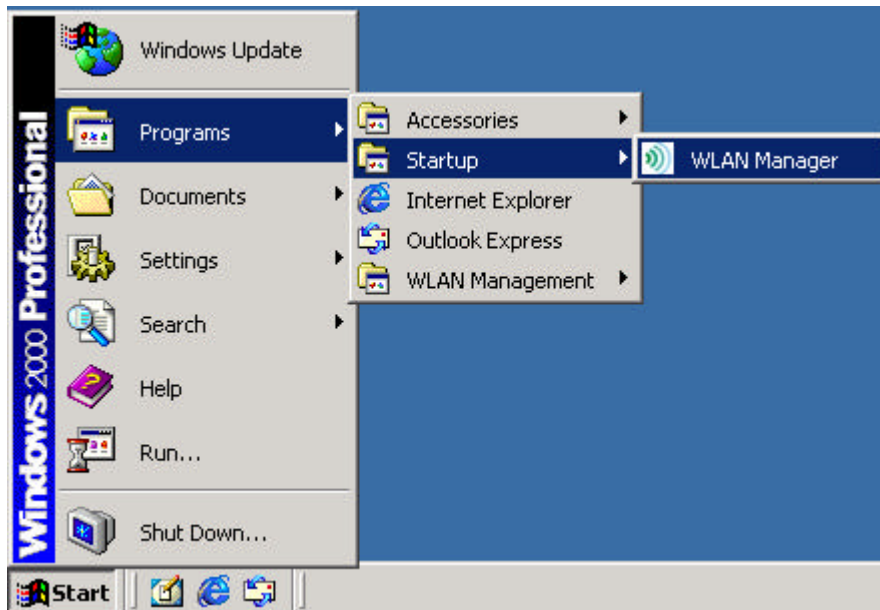
4. Select "No" and then click "Finish" to complete the installation (It is recommended to select "Yes" for Windows 98).






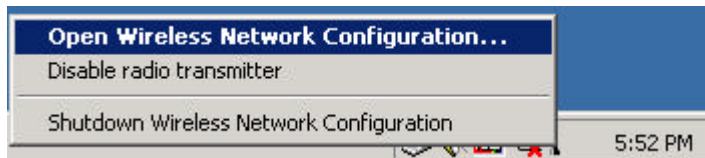
5. The shortcut **WLAN Manager** will appear on your desktop. By click this icon, you can run the Utility program.

6. You will also find a shortcut "WLAN Manager" at Start\Programs\Startup Menu as shown below:



7. Please Install the WLAN card into you PC or notebook.

After the installation, a little black icon  will appear on the bottom right of the screen. Right click that icon and select open, the Wireless Network Configuration will pop-up on the screen.

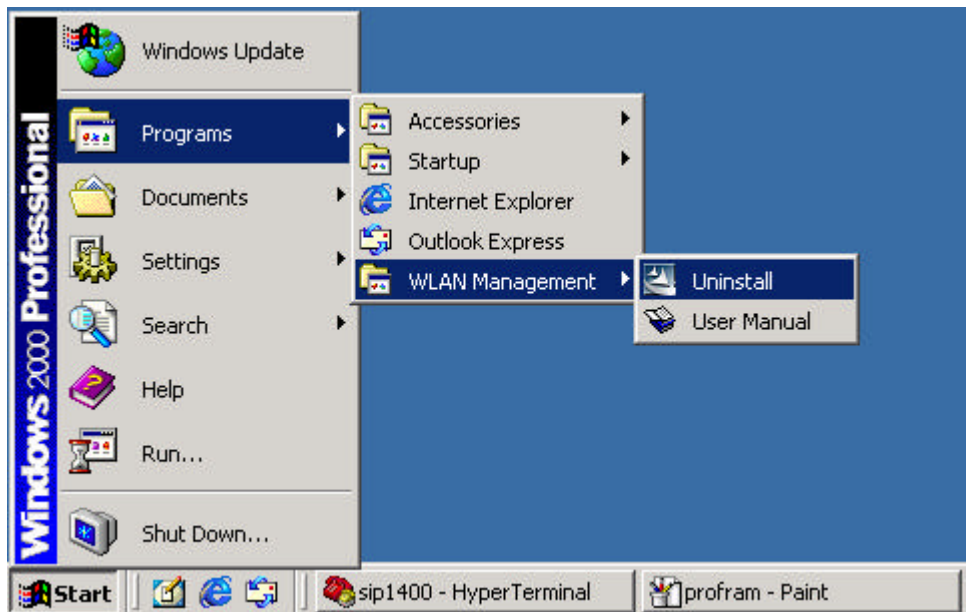


2.1.2 Uninstall Wireless Network Configuration

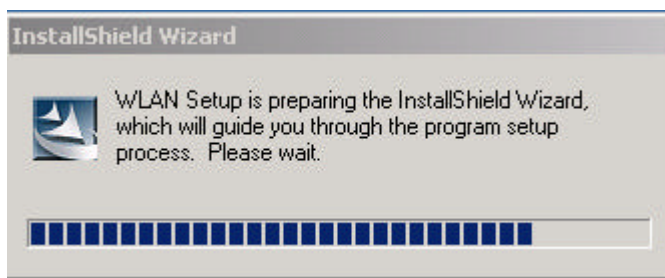
1. To exit the WLAN Utility, you should click the right bottom on the Utility icon in the working bar and select "Close".



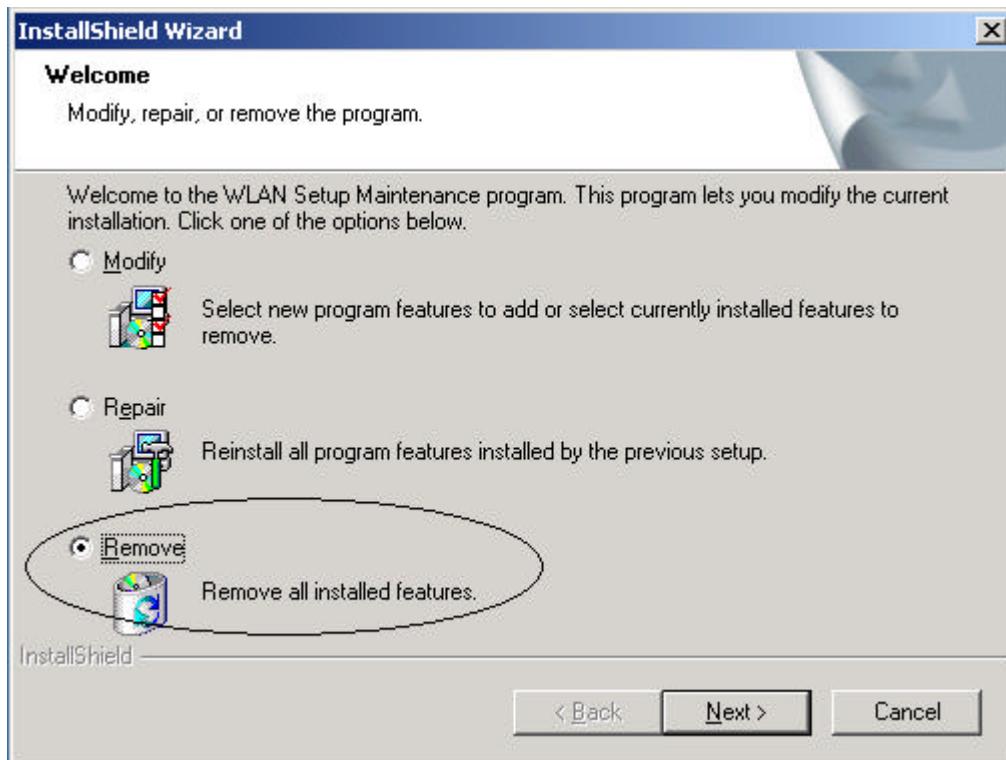
2. To uninstall the WLAN Utility and Driver, you can move to Start – Programs –WLAN Management Utility, and click "Un-installation".



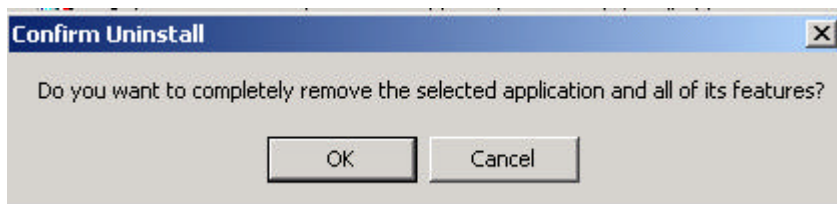
3. You will be asked if you want to uninstall the WLAN Utility and all of its components.



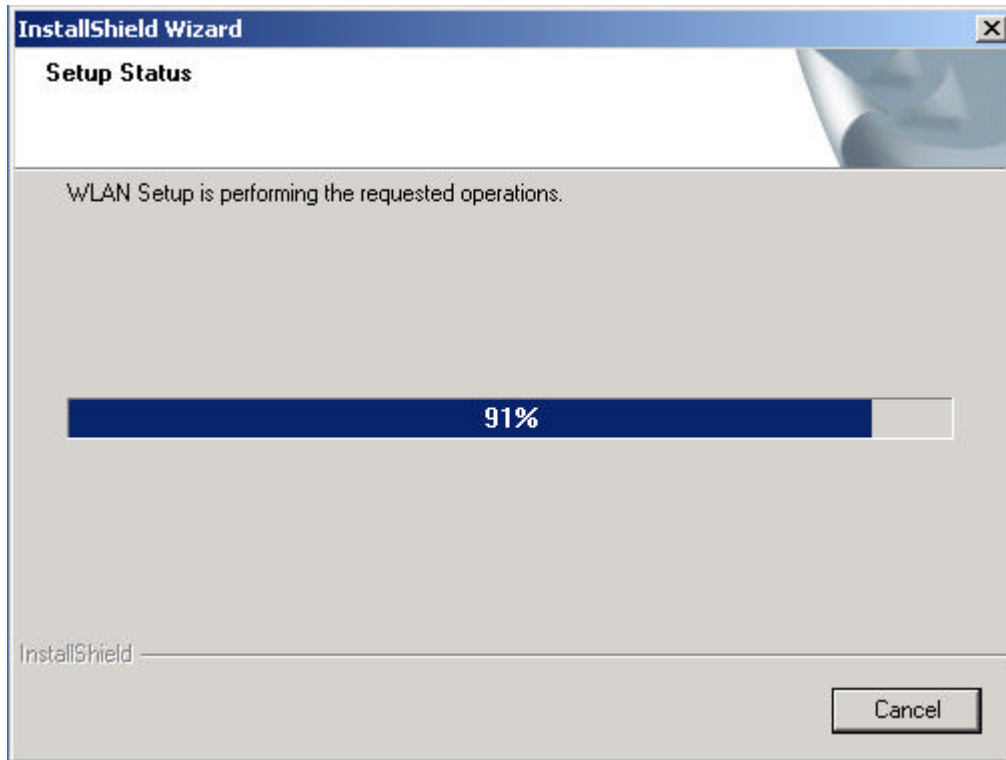
4. Click "Remove" option and "Next" button.



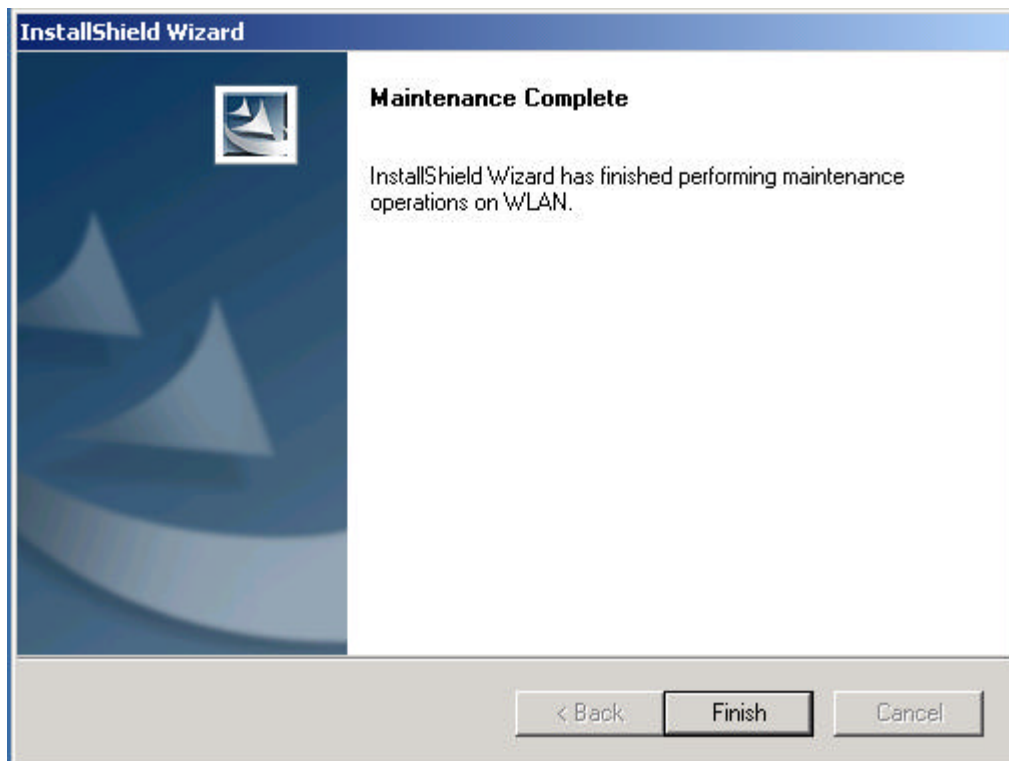
5. Click "OK" to remove or click "Cancel" to exit.



6. Performing "uninstall" option.



7. Now the un-installation is completed. Please click "Finish".



2.2 How to surf on the internet with this Wireless Network Card?

- Step 1. Wireless Network Card Driver/Utility Installation (page 4)
- Step 2. Please Install the WLAN card into you PC or notebook
- Step 3. Wireless Networks setting to connect AP (5 clicks)

Please Click 5 buttons as follows:

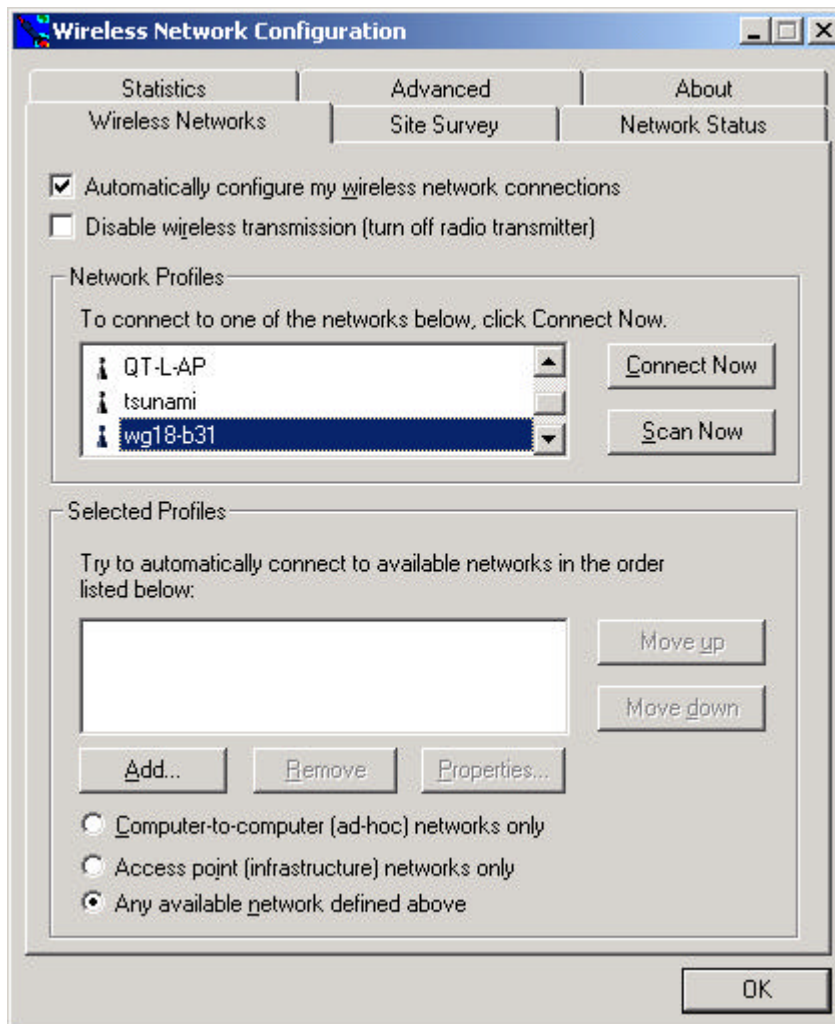
Click 1 : Automatically configure my wireless network connections

Click 2 : Any available network defined above

Click 3 :

Click 4 :

Click 5 :

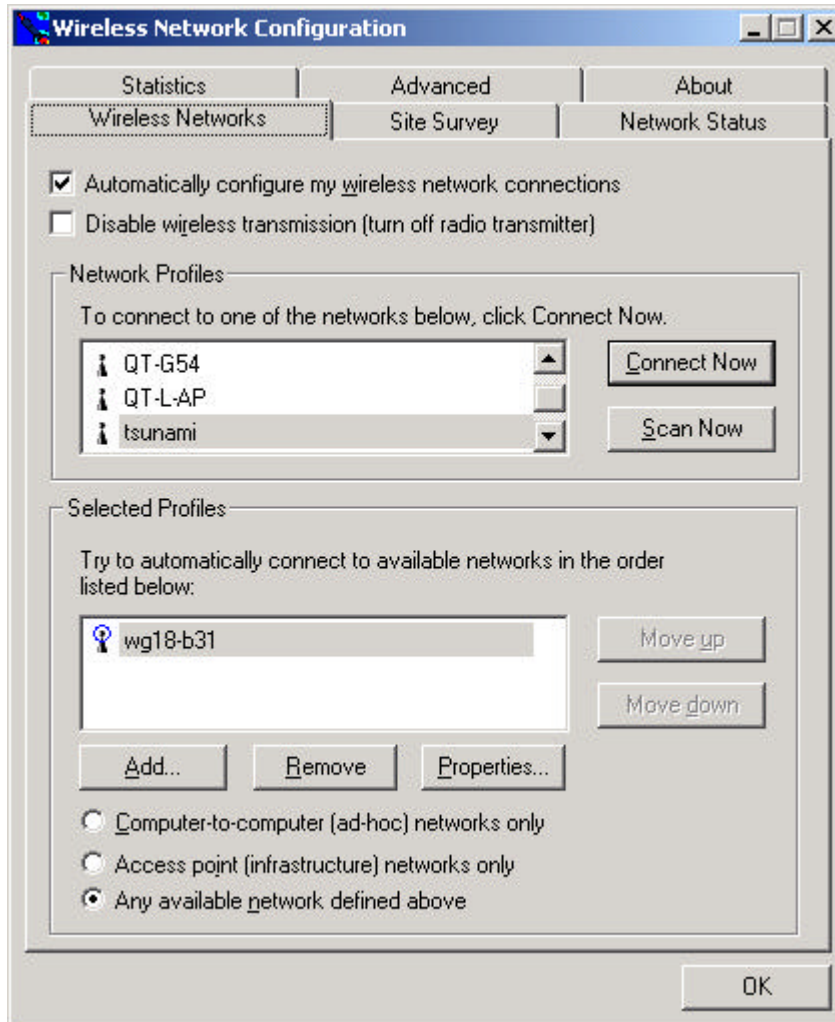


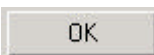

3. This mean that you get connection with WLAN network.





Please open your IE browser now. It is your time to surf on your internet.

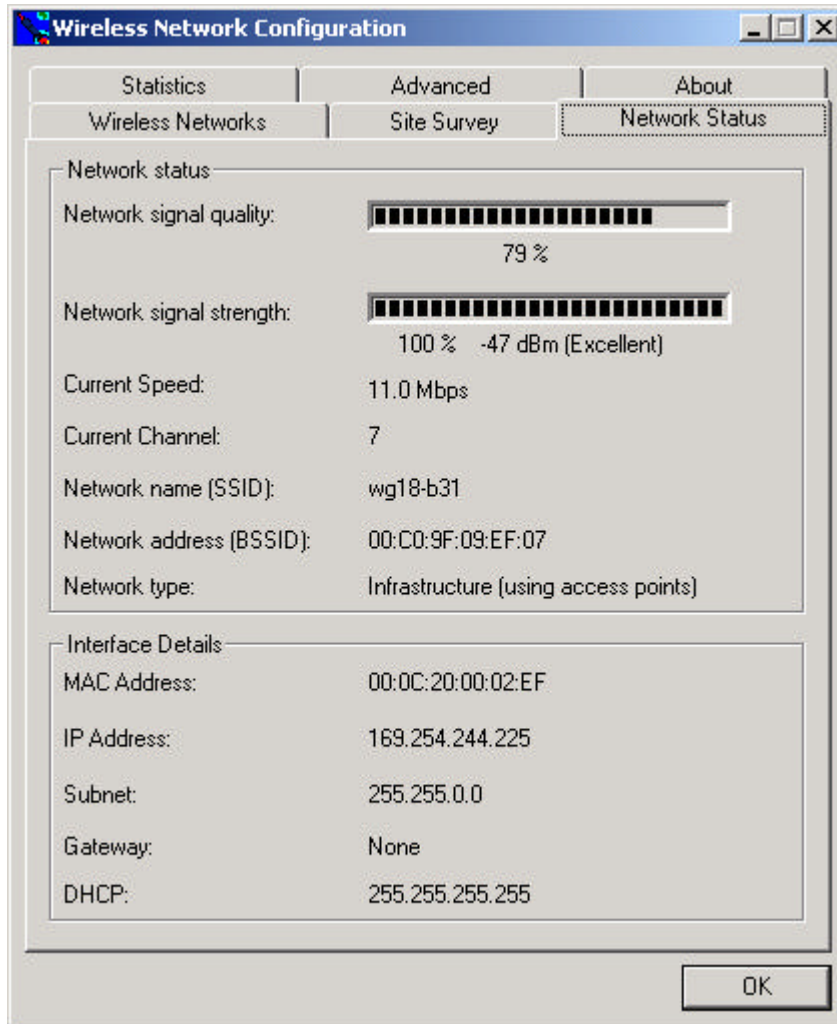


4. Click  , the Wireless Network Configuration page will close. It only leave this icon  on system tray area.

2.3 Wireless Network Configuration Details

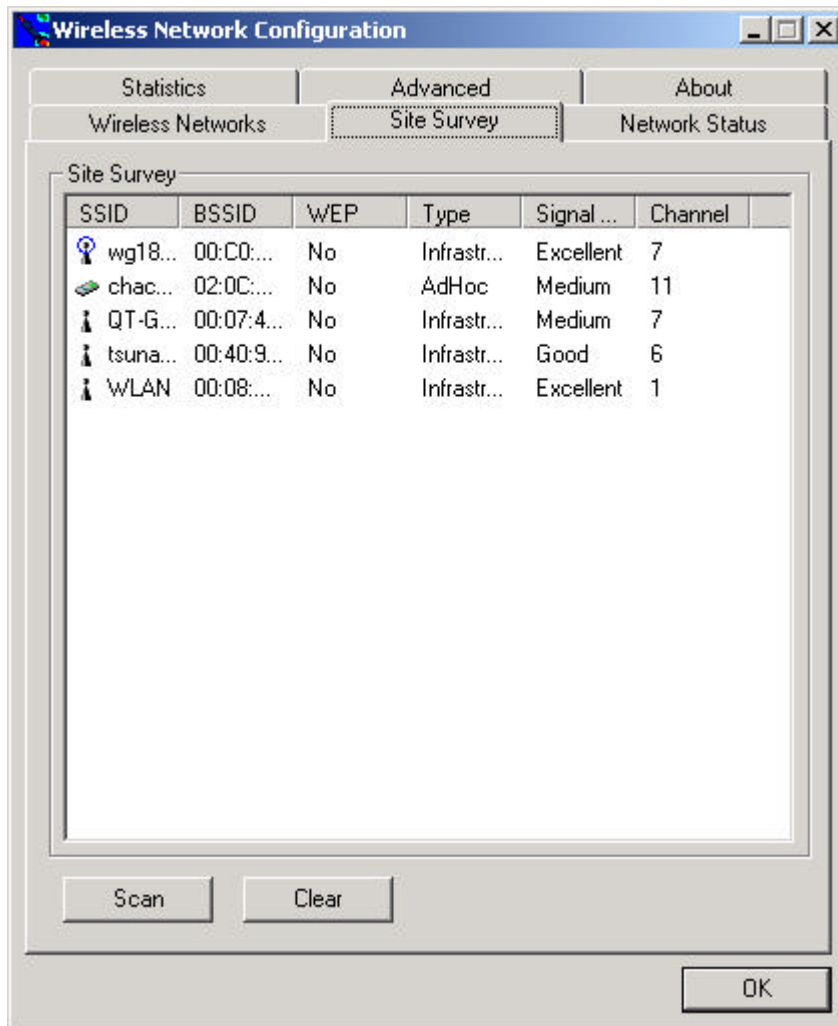
2.3.1 Network Status Page

You would know how is your network situation.



2.3.2 Site Survey Page

This tool provide you the information of network around your area.



2.3.3 Statistics Page

This page provide the information of how many bytes and frames you transmit and

receive.

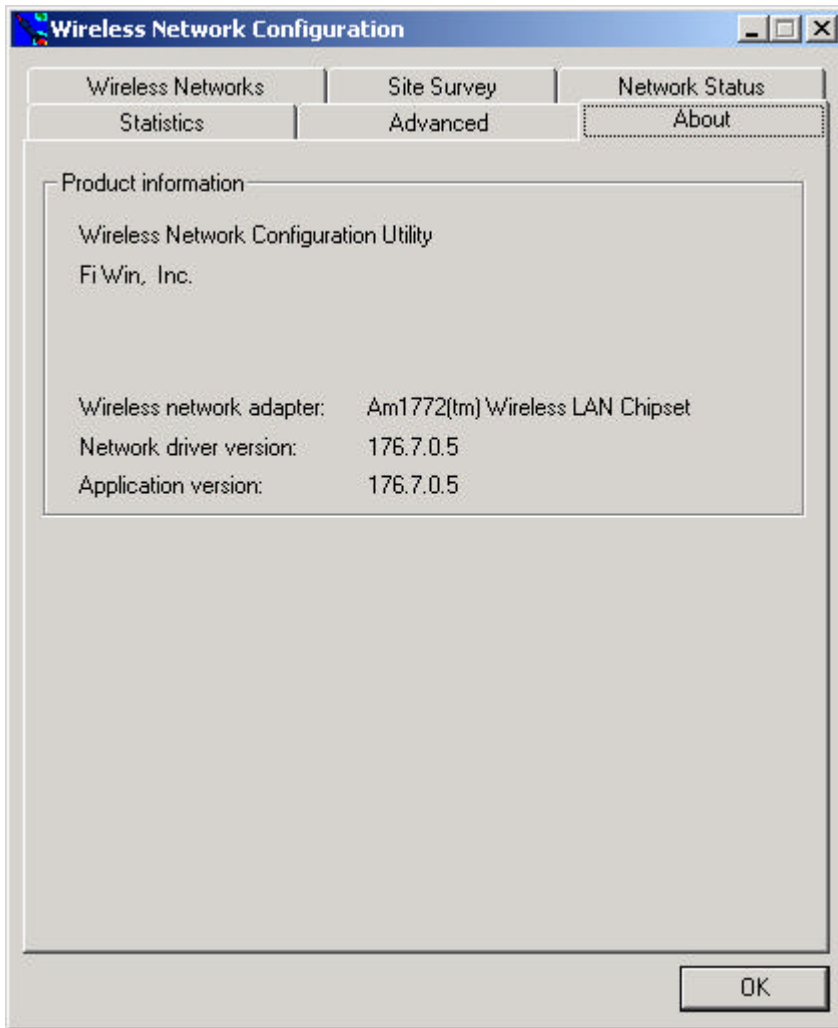
The screenshot shows a window titled "Wireless Network Configuration" with three tabs: "Wireless Networks", "Site Survey", and "Network Status". The "Wireless Networks" tab is active and contains sub-tabs: "Statistics", "Advanced", and "About". The "Statistics" sub-tab is selected, displaying a table of network statistics.

	Transmit	Receive
Frames		
Unicast	65	0
Multicast	0	0
Management	6	25905
Bytes		
Unicast	12064	0
Multicast	0	0
Management	60	2440749
Errors		
Total	60	24

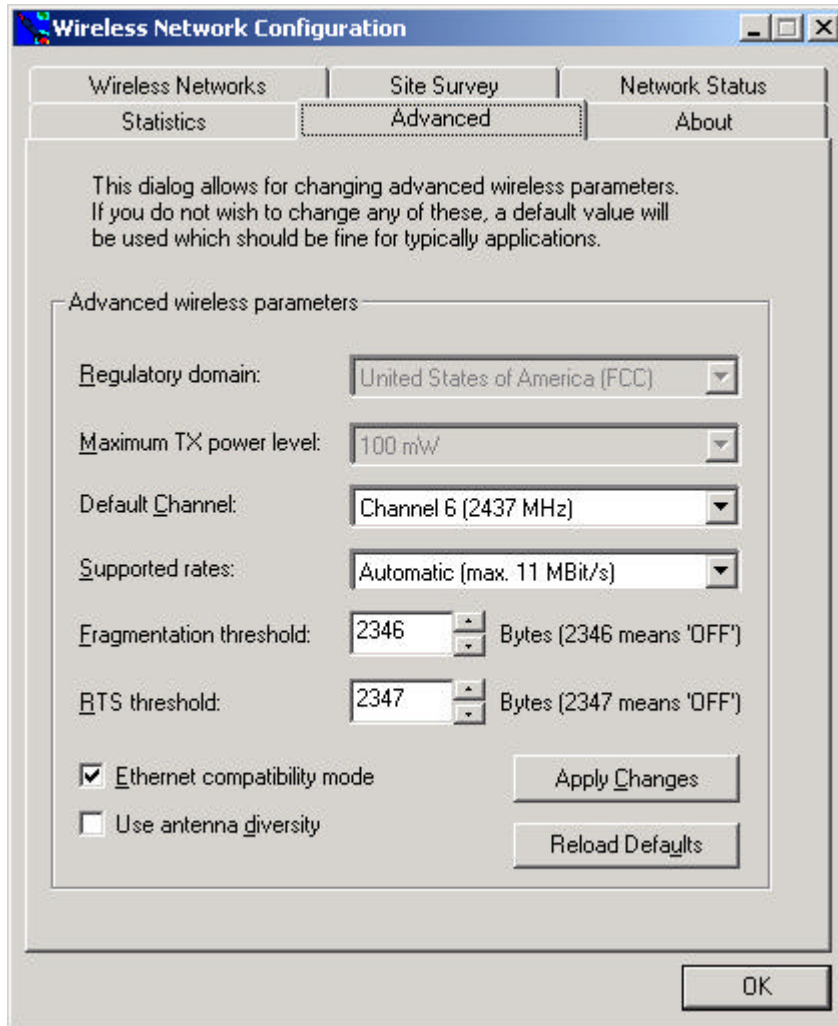
An "OK" button is located at the bottom right of the dialog box.

2.3.4 About Page

The most important information that you might use is driver version.



2.3.5 Advanced Page



- **Default Channel**

It shows the channel being used, if any, for this wireless connection. The communication channel ranges from 1 to 11(US/FCC, Canada/RSS), 1 to 13(Europe/ETSI) or 1 to 14(Japan/TELEC)

- **Supported Rates**

The supported rate is the rate at which the data packets are transmitted by the client. You can set this to 2Mbps, 5.5Mbps, 11Mbps.

- **RTS Threshold**

RTS threshold is a mechanism implemented to prevent the "Hidden Node" problem. "Hidden Node" is a situation in which two stations are within range of the same access point, but are not within range of each other. Thus, it provides a solution to prevent data collisions. Enabling RTS Threshold may cause redundant network overhead that could negatively affect the throughput performance.

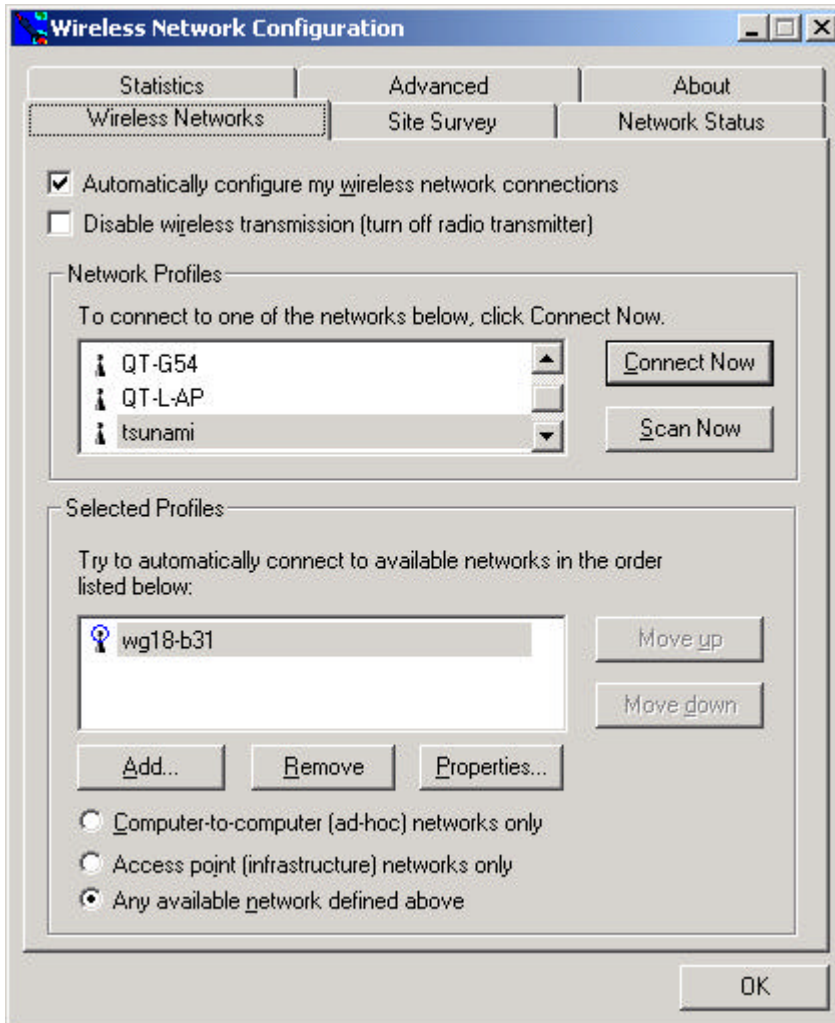
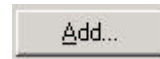
Fragment Threshold

The field allows you to set enable or disable. When the field is set to Enabled, you can adjust the value between 256 to 2346. Fragmentation mechanism is used for improving the efficiency when high traffic flows along in the wireless network. If your wireless devices often transmit large files in wireless network, you can enable the Fragmentation Threshold and the mechanism will split the packet to send.

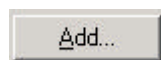
2.3.6 SSID and Encryption Page

Where can I set up a WEP key ?

Wireless Networks Page

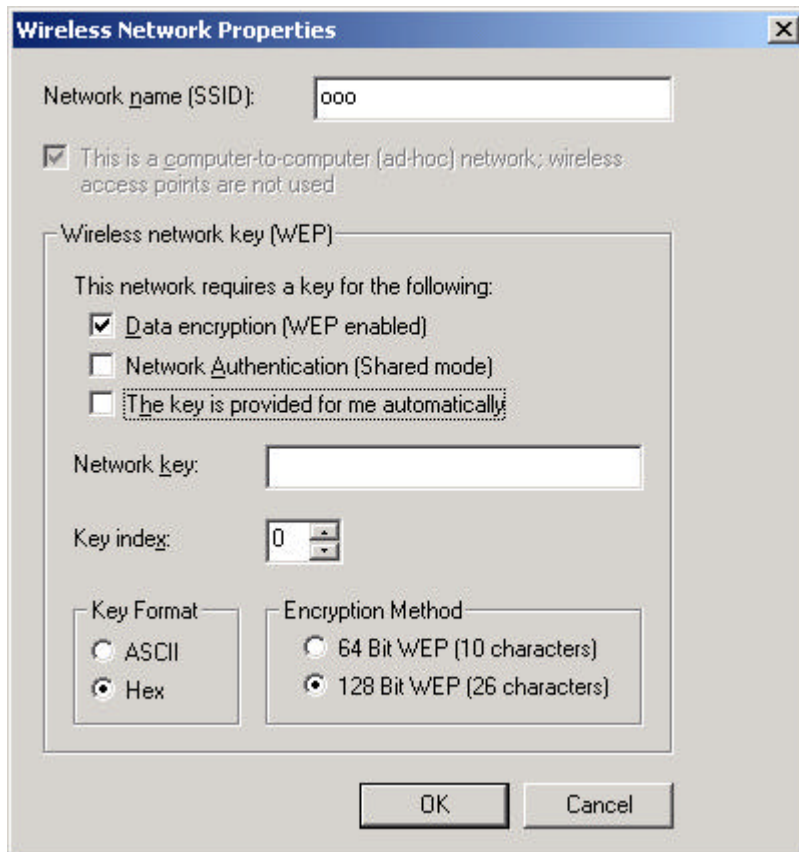


When you click this button



the page below is showing.

Now you can set the WEP key you want.



· Encryption

The Encryption tab is used to equip an additional measure of security on your wireless network, which can be achieved by using WEP (Wired Equivalent Privacy) encryption. To prevent unauthorized wireless stations from accessing data transmitted over the network, WEP can support high secure data encryption. WEP encrypts each frame transmitted through the radio by using one of the Keys entered from this panel. When an encrypted frame is received, it will only be accepted if it decrypts correctly. This will only happen if the receiver has the same WEP Key used by the transmitter. The Encryption tab contains some fields as below.

Encryption [WEP security]

The field allows you to select Disabling, 64-bit and 128-bit. When setting 64bit, or 128 bits, it means WEP security is used.

· WEP Key

You can choose "Create Keys Manually" or "Create Keys with Pass-phrase" method to enter encryption keys. It allows the entry of four keys for 64-bit and 128-bit key

according to WEP function select. To be written to the driver and registry, each key must consist of correct digits and letters allowed. The detailed descriptions will be shown as below for these two kinds of methods:

Create Key Manually

For 64-bits encryption:

- Five alphanumeric characters in the range of "a-z", "A-Z" and "0-9". (e.g. MyKey)
- 10 digit hexadecimal values in the range of "A-F" and "0-9". (e.g. 11AA22BB33).

For 128-bits encryption:

- 13 alphanumeric characters in the range of "a-z", "A-Z" and "0-9". (e.g. WEPencryption).
- 26 digit hexadecimal values in the range of "A-F" and "0-9". (e.g. 11AA22BB33123456789ABCDEFF)

Create Keys with Pass-phrase

A Pass-phrase can be entered which is used as a "seed" to randomly generate the four keys. This saves considerable time since the same keys must be entered into each node on the wireless network.

Key1, Key2, Key3, Key4

These four fields can be used to manually enter the keys. This may be necessary if you wish this node to match keys which is set in a different vendor product. These fields also display the keys when they are generated using a Pass-phrase.

Use WEP key

This field updates the driver with the four keys displayed in Key1 through Key4. These keys are also written to the registry for permanent storage.

Chapter 3. Troubleshooting

If you encounter some problems installing the WLAN PC card, refer to below the procedure after you have installed the card.

a. Check the Various Properties of the Card

Click the “Control Panel” and check whether there is a WLAN card in one of the sockets or not.

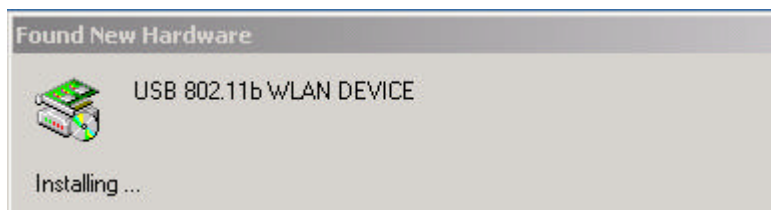
If there are yellow signs on network card, please check the followings:

- 1) Check if your notebook supports 3.3V Card.
- 2) Check that you have inserted the right card and have installed the proper driver.
- 3) Check if your notebook has installed some other wireless LAN card driver.

If you do not know the reason why, please contact agency that provide you WLAN card.

b. Plug device first and then install the driver/ Utility

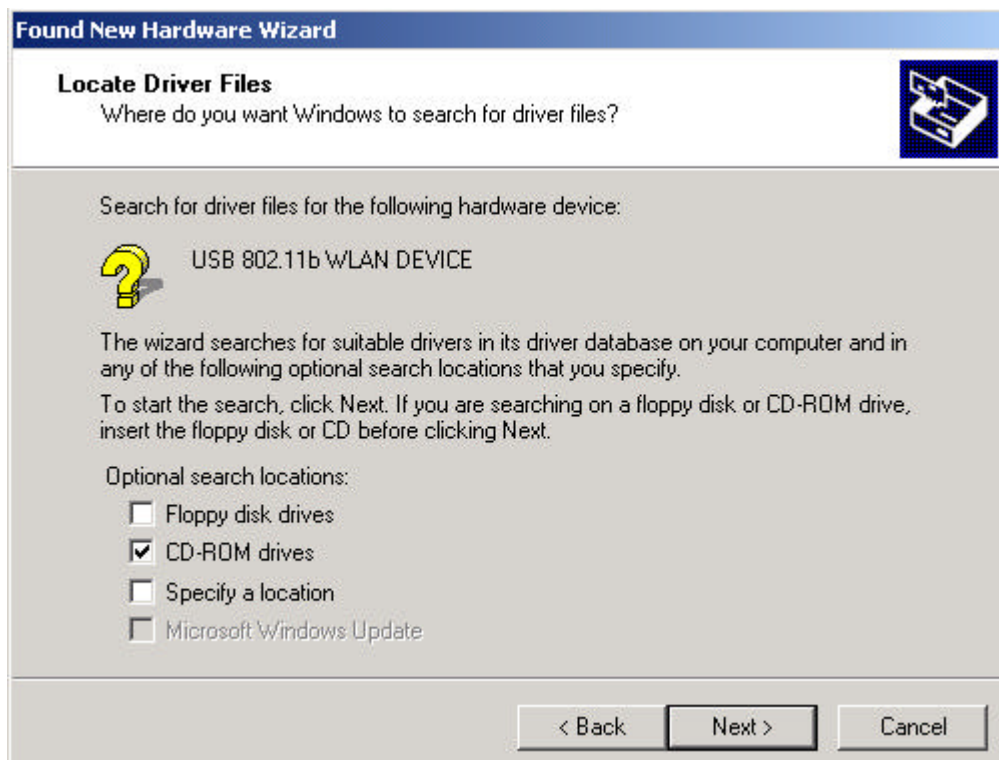
1. When you plug device in USB port, operating system will detect automatically.



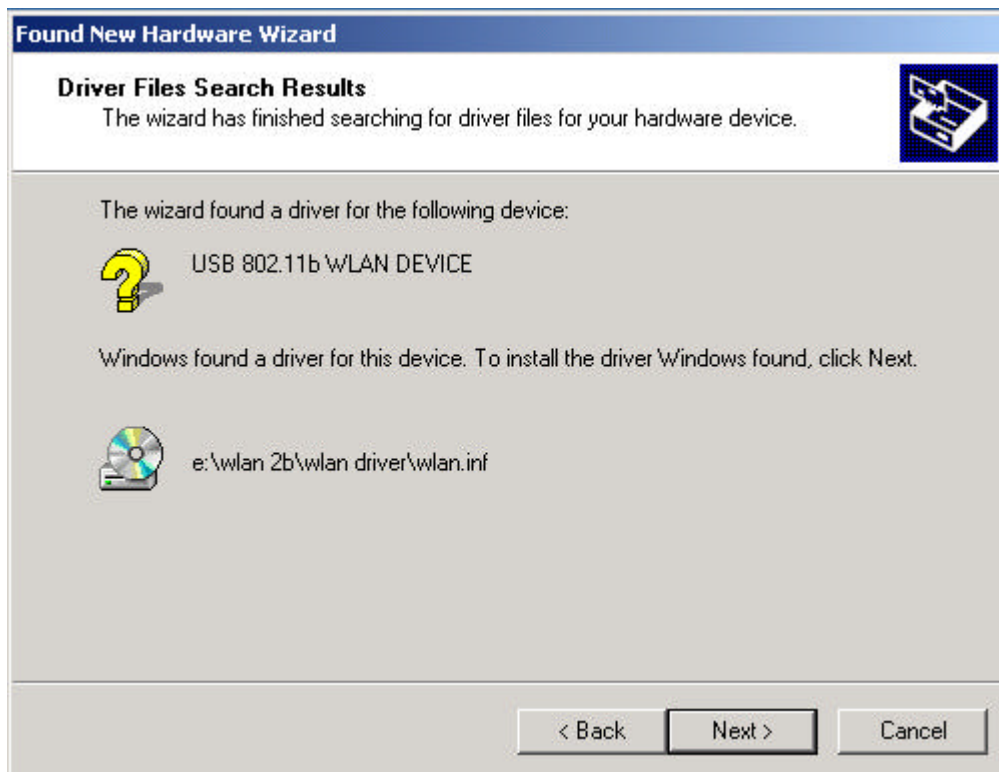
2. Search the driver.



3. Select CD-ROM drives and click Next.



4.



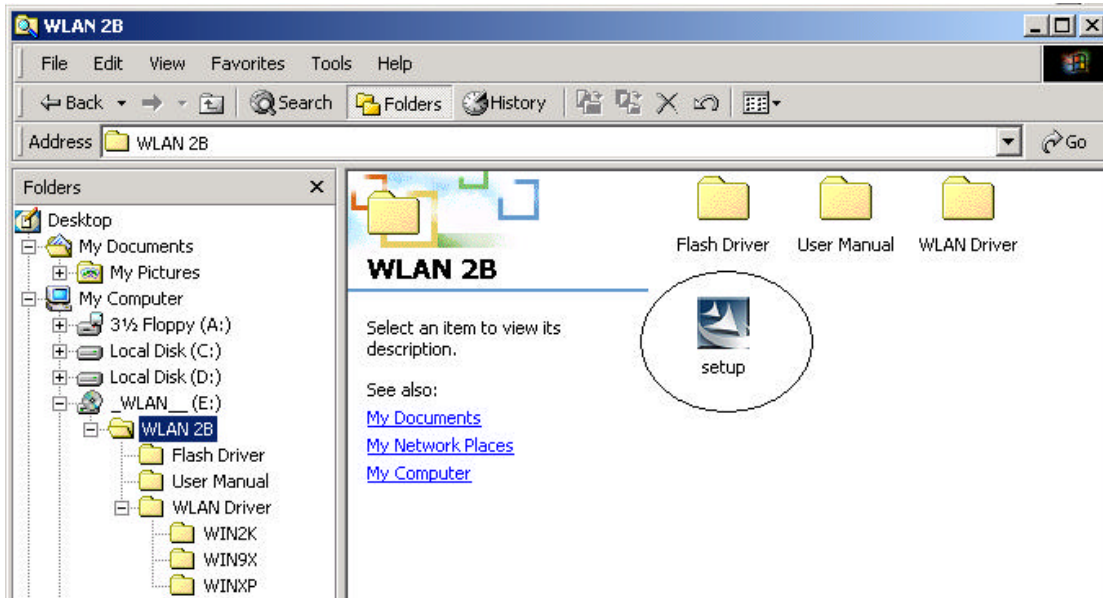
5. Driver installation is completed.



6.



If you want to install the Utility, double click the `setup` in CD-ROM.



c. If your notebook or PC has default WLAN card, it cannot configure WiFi WLAN card

Change the setting of TCP/IP protocol component inside the content of Local Area Connection (in Network Neighborhood).

-----The End-----