

# **Vigor 530 USB2.0 Adapter**

## **User's Manual**

**Version: 2.0 — March 2004**

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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.

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

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.

## **IMPORTANT NOTE:**

### **FCC Radiation Exposure Statement:**

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

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

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# 1. Welcome

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Thank you for purchasing Vigor 530 USB 2.0 Adapter, and welcome to Wireless LAN—the easy way to wireless networking.

This user's manual introduces to you the Vigor 530 USB 2.0 Adapter and describes the most common configurations, which will help to build a connection 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.

As this product is designed to run under Microsoft Windows, it is recommended that to be installed by people who are familiar with the installation procedures for network operating systems under Microsoft Windows.

## 1.1 Kit Contents

Vigor 530 USB 2.0 Adapter kit should include the following items: One Vigor 530 USB 2.0 Adapter with USB cable, one CD and one Quick Start Guide.

- a. One Vigor 530 USB 2.0 Adapter



- b. One USB cable



- c. One Software CD including:

1. Installation Software
2. Acrobat Reader
3. User Manual PDF File

- d. Quick Start Guide

If any of the items mentioned above are damaged or missing, please contact your distributor.

## 1.2 Main Features of Vigor 530 USB 2.0 Adapter

### A. 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.

### B. USB Connector



### Vigor 530 USB 2.0 Adapter features:

1. High-speed wireless connection, up to 54 Mbps.
2. IEEE802.11g (DSSS) standard for 2.4 GHz Wireless LAN.
3. Plug-and-Play installation.
4. Solid design with an integrated antenna.
5. Full mobility and seamless cell-to-cell roaming.
6. Automatic scale back at per packet level.

### Vigor 530 USB 2.0 Adapter supports:

1. Automatic load balancing for optimized bandwidth.
2. Advanced power management.
3. Windows®98SE, ME, 2000 and XP (subject to availability).

## **1.3 Wireless Networking Scenarios**

As our Vigor 530 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. After installing Vigor 530 USB 2.0 Adapter, you can connect your computer to:

- a. A Peer-to-Peer Workgroup of 802.11g compliant wireless devices.
- b. A LAN (Local Area Network) constructed by Access Point(s) or other 802.11g compliant systems.
- c. 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.

**A. Peer-to-Peer Networking (Ad Hoc):**

An Ad Hoc Network could be easily set up with some PCs and this Vigor 530 USB2.0 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.

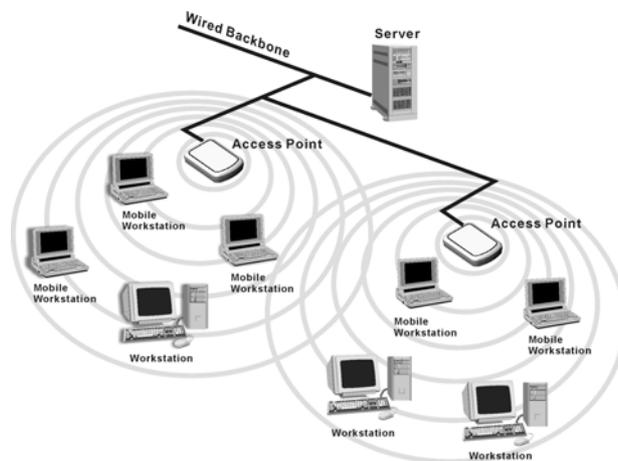


**B. Cooperate LAN (Local Area Networking):**

With some WLAN 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 WLAN 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.



## 1.4 Advantages for Using Wireless Network

Vigor 530 USB 2.0 Adapter can wirelessly transmit and receive data, minimizing the need for wired connections, at a speed of up to eleven megabit per second. With the Vigor 530 USB 2.0 Adapter, you can locate your PC wherever you want without wires and cables.

Vigor 530 USB 2.0 Adapter provides LAN users with an access to real-time information anywhere in their organization. The mobility provides effectiveness and efficiency, which are not available under wired networks.

Vigor 530 USB 2.0 Adapter configuration is easy to switch between Peer-to-Peer networks, suitable for a small number of users, and full infrastructure networks of thousands of users that allow roaming around a broad area.

Therefore, you may see many advantages for adopting Wireless Networking as follows:

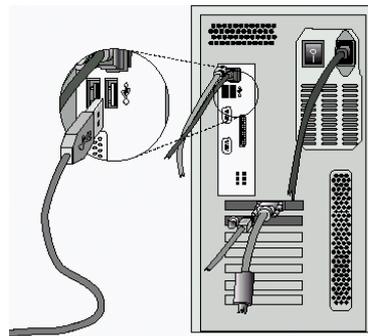
- *Less Space Limits:* Vigor 530 USB 2.0 Adapter provides access to network services without wires; therefore, it gives you more freedom to allocate and style your living and working space. In addition, in some areas where is hard or expensive to connect to wired networks, such as historic buildings, classrooms or mobile connectivity, then you can count on wireless networking.
- *Flexible Workgroups and Lower Cost:* For workspaces that are frequently reconfigured for temporarily use such as demo in exhibitions, wireless networking is easy to set up of lower total cost—and all equipments are recyclable. You do not have to remove the old wires and then build up the new ones again and again.
- *Networked Conference Rooms:* Users can access the network as they move from a meeting to another, getting the access to information/data and the ability to communicate decisions while “on the go”.
- *Ad Hoc Networking:* On site consulting and small workgroups may increase productivity with quick network setup and collaboration software.
- *Branch office Networking:* With an Access Point to bridge between the LAN and Internet, wireless networking provides an easy to install, use and maintain network for a remote or sales office.
- *Campus-Wide Network Mobility:* The roaming capabilities allow enterprise to set up easy to use wireless networks that cover the entire campus transparently.

## 2. Quick Start to Wireless Networking

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### 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 (restart your computer if necessary).
3. **Connect the Vigor 530 USB 2.0 Adapter** to your PC/notebook PC.



**NOTE!** *Please use USB extension cable to connect the Vigor 530 USB 2.0 Adapter with your PC/Notebook during normal operation.*

4. Operation System will detect new device and verify the driver automatically.

**NOTE!** *During installation procedure, each operating system may prompt different specific options:*

**Windows 98SE:** The system will request the original Windows CD during the installation process. When the installation is finished, you'll have to restart your computer.

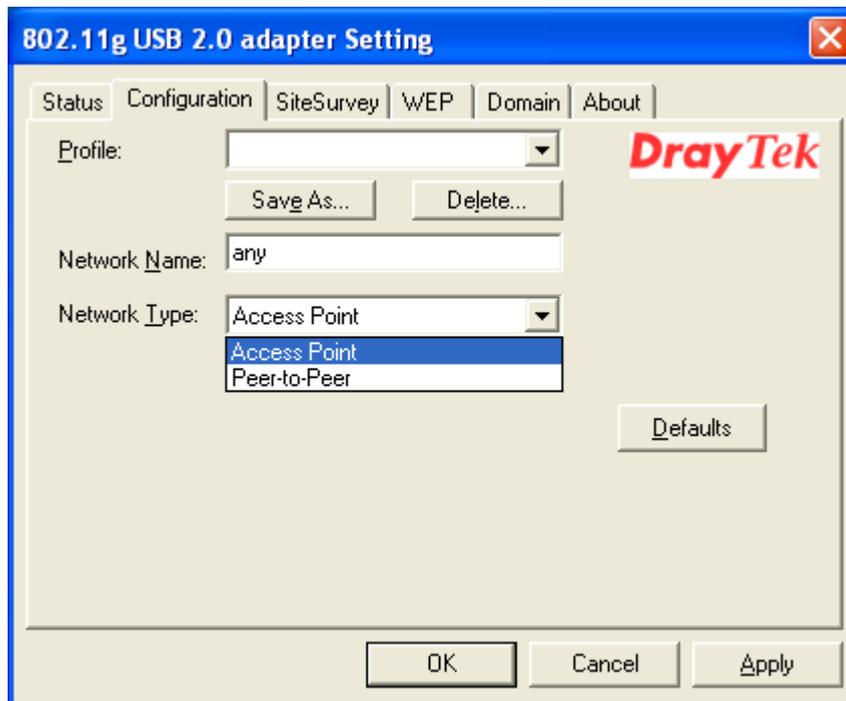
**Windows Me:** Please restart your computer when the installation is finished.

**Windows 2000/XP:** Select "Install the software automatically" when the window with this option appears, and then click "Next" to continue installation.

**NOTE!** *In Windows XP, it is recommended that you use the Vigor 530 USB2.0 adapter Setting. Please check User's Manual Chapter 3.1.2 to disable the Zero-Configuration before opening the Setting window.*

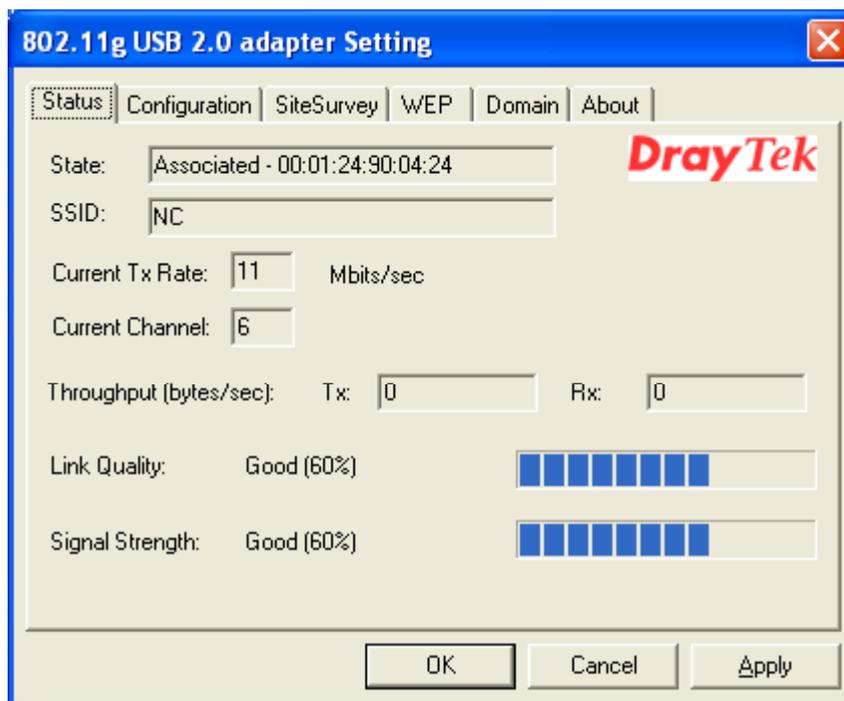
## 2.2 Connecting to an Existing Network

1. Double click on the shortcut icon or go to windows **Start > Programs > Vigor530 > Vigor530 USB2.0 adapter Setting** to open the Setting window. You can also see a small link-status icon  in Windows System Tray.



2. Key in “any” for Network Name and click “Apply”. The **Vigor530 USB2.0 adapter** will search an available network automatically. Once connected, the link-status icon will change to green  .
3. If you would like to connect with certain Access Point, you may contact with network administrator for Network Name.

4. Go to “**Status**” Tab to view network link status.



5. For details of each tab in Vigor 530 USB2.0 adapter Setting, please read Chapter 4.

## **3. Step-by-Step Installation Guide**

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This section will lead you through the installation of Vigor 530 USB 2.0 Adapter and Vigor 530 USB2.0 adapter Setting software in detail. People who are familiar with the installation and settings of wireless device may refer to quick start guide to establish a network.

To establish your wireless network connection, the following steps should be executed:

1. Install the software by using the installation CD.
2. Install Vigor 530 USB2.0 Adapter.
3. Install the required network protocols to communicate with your network.

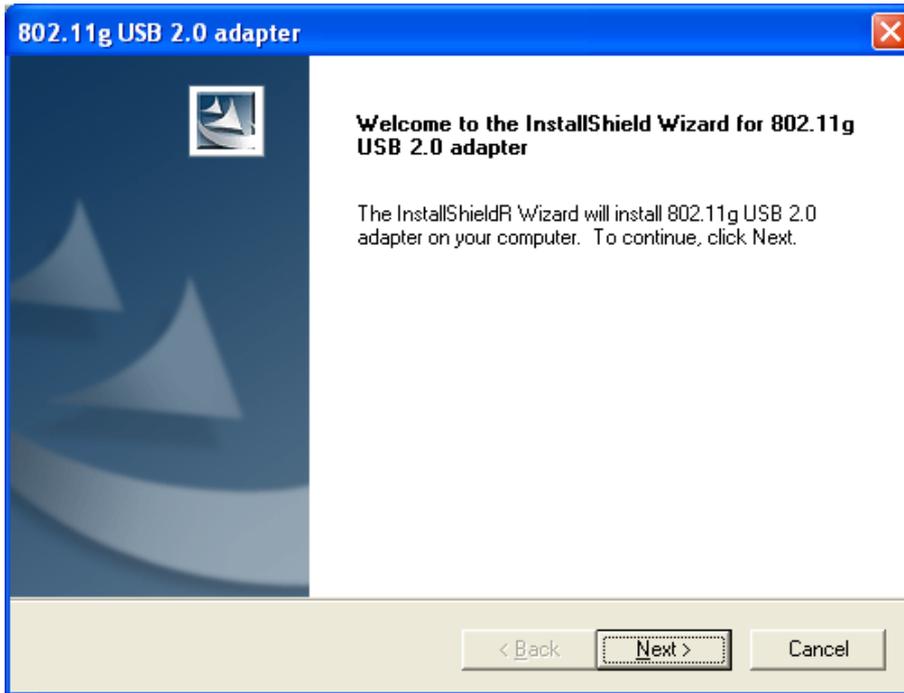
Mostly, you will need to set the TCP / IP protocol.

The product is designed to operate under Windows 98SE, ME, 2000 and XP. The installation procedure is about the same. Please follow the installation wizard that provided by your system to install the software.

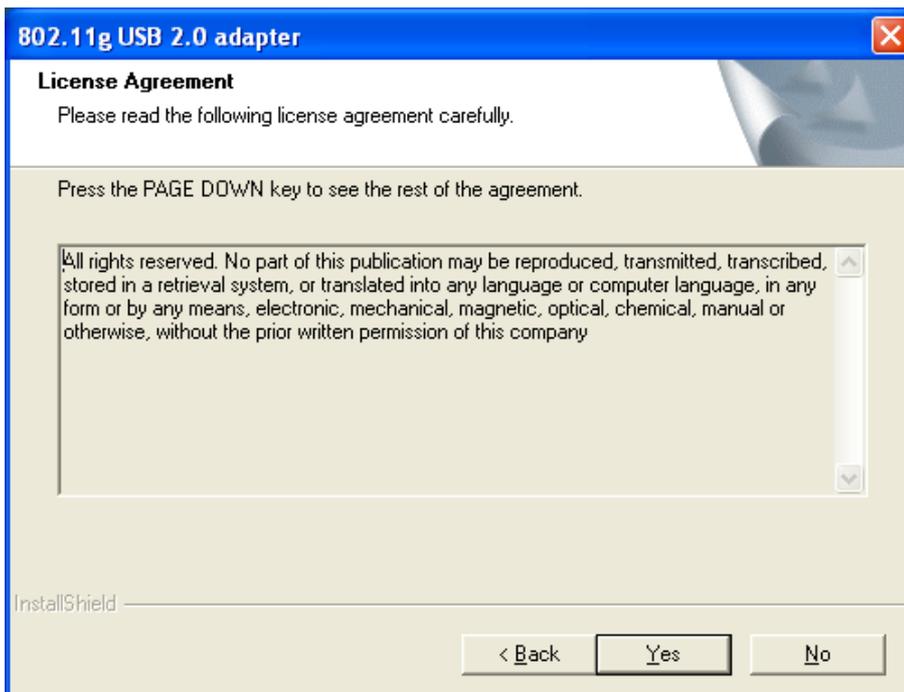
### 3.1 Install Vigor 530 USB2.0 adapter

**NOTE!** Please install the software before inserting the Vigor 530 USB 2.0 Adapter.

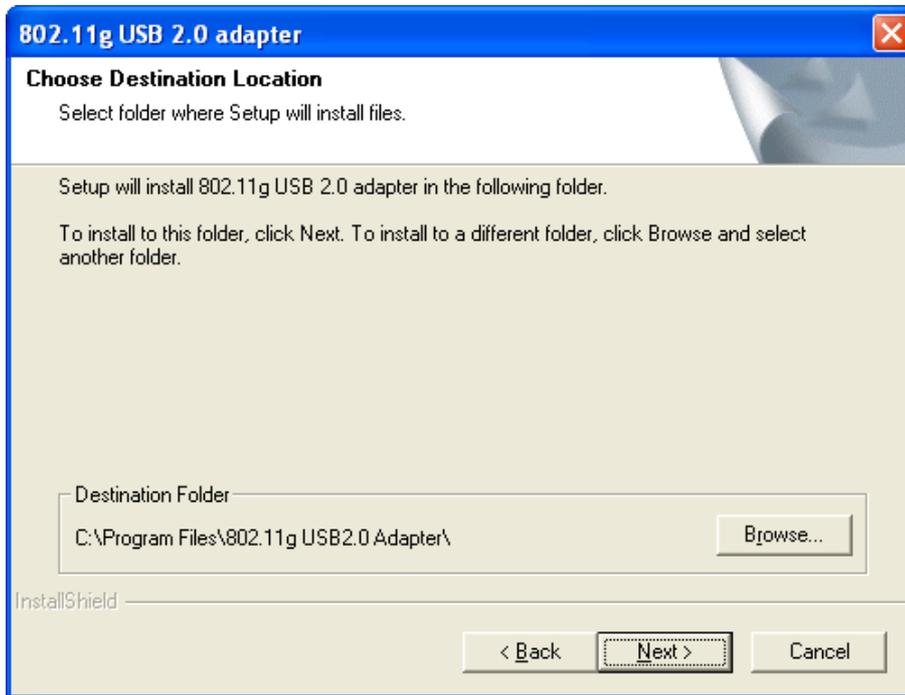
1. **Insert the installation CD.** Insert the installation CD into your CD-ROM drive. The setup program automatically starts.
2. **Click “Next”.**



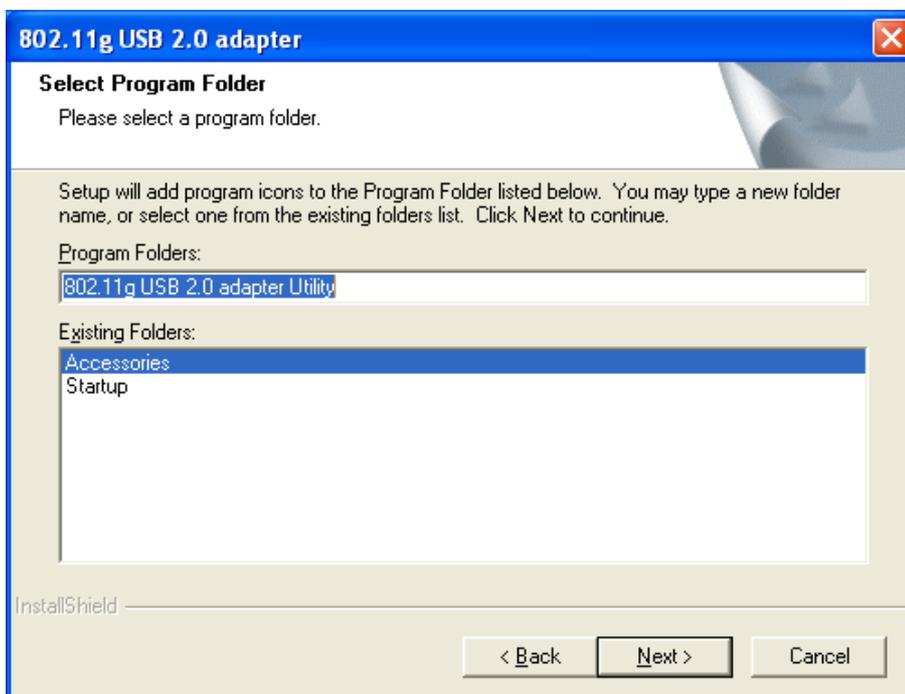
3. **Click “Yes”.**



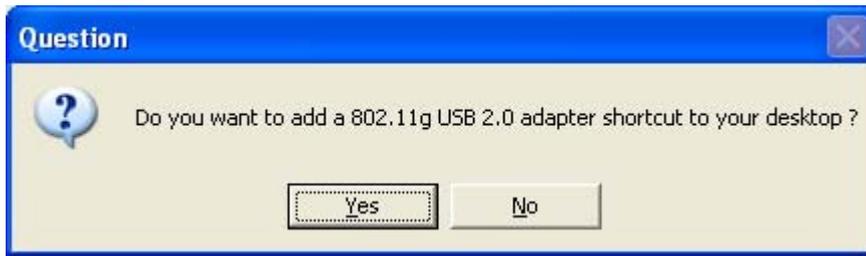
4. **Read the destination folder and click “Next”.** The default destination folder is displayed. You may change the default folder by clicking “Browse” to select the destination folder. Click “Next” to go to the next screen.



5. **Click “Next”.**



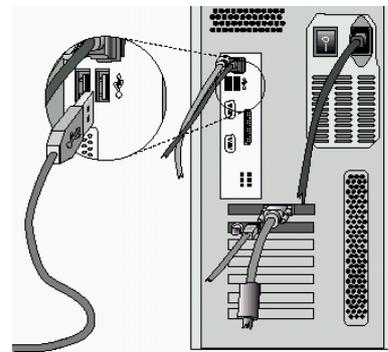
6. Click “Yes” to create a shortcut on desktop. Restart your PC if necessary.



7. Connect **Vigor 530 USB2.0 Adapter** to your PC/notebook PC. To adjust the direction or position of Vigor 530 USB2.0 Adapter, please use the USB extension cable.



**Laptop**



**Desktop**

**NOTE!** Please use USB extension cable to connect your Vigor 530 USB 2.0 Adapter with PC/Notebook during normal operation.

### 3.1.1 Additional Setup Processes

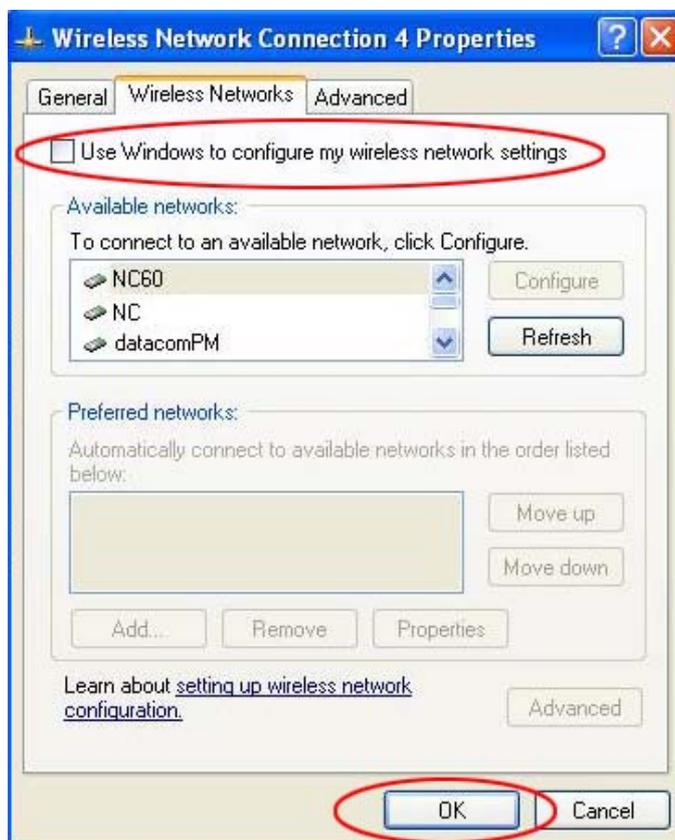
During software installation procedure, each operating system may prompt different specific options. Mostly, you will be asked to add some necessary protocols and to edit some networking settings.

1. **Windows 98SE:** The system may request the original Windows CD during the installation process. Please check with the network administrator for the values of the settings. When the installation is finished, you'll have to restart your computer.
2. **Windows Me:** Please check with the network administrator for the values of the settings. Please restart your computer when the installation is finished.
3. **Windows 2000:** Please check with the network administrator for the values of the settings. Select "Install the software automatically" when the window with this option appears, and then click "Next" to continue installation.
4. **Windows XP:** Select "Install the software automatically" when the window with this option appears, and then click "Next" to continue installation. Note that before using the Vigor 530 USB2.0 adapter Setting, please disable the Windows XP Zero-Configuration first.

### 3.1.2 Disable Windows XP Zero-Configuration

In Windows XP, it is recommended that you use Vigor 530 USB2.0 adapter Setting. Right after the installation, before opening the Setting window, please follow the steps below to disable the Windows XP Zero Configuration:

1. Go to “Control Panel” and double click “Network Connections”.
2. Right-click “Wireless Network Connection” of Vigor 530 USB 2.0 Adapter, and select “Properties”.
3. Select “Wireless Networks” tab, and uncheck the check box of “Use Windows to configure my wireless network settings”, and then click “OK”.



## 3.2 Verifying the Driver/Utility

### 1. Windows 98SE/Me:

- Step 1. Right-click “My Computer” icon on the desktop and choose “Properties”.
- Step 2. Select “Device Manager” tab and open “Network adapters”. You should see your Vigor 530 USB 2.0 Adapter in the list. Highlight it and click “Properties” button.
- Step 3. From the “Device status”, you should see the line “This device is working properly”. If, instead, you see error messages displayed, please remove this Adapter (highlight this Adapter and click “Remove” button). Restart your PC and go through the installation process again.

### 2. Windows 2000:

- Step 1. Right-click “My Computer” icon on the desktop and choose “Properties”.
- Step 2. Select “Hardware” tab and click “Device Manager”. Open “Network adapters”. You should see your Vigor 530 USB 2.0 Adapter in the list. Right-click this Adapter and choose “Properties”.
- Step 3. From the “Device status”, you should see the line “This device is working properly”. If, instead, you see error messages displayed, please uninstall this Adapter (right-click this Adapter from the “Network adapters” list and choose “Uninstall”). Restart your PC and go through the installation process again.

### 3. Windows XP:

- Step 1. Click “Start>Control Panel> System”.
- Step 2. Select “Hardware” tab, and click “Device Manager”. Open “Network adapters”. You should see your Vigor 530 USB 2.0 Adapter in the list. Right-click this Adapter and choose “Properties”.
- Step 3. From the “Device status”, you should see the line “This device is working properly”. If, instead, you see error messages displayed, please uninstall this Adapter (right-click this Adapter from the “Network adapters” list and choose “Uninstall”). Restart your PC and go through the installation process again.

### 3.3 Vigor 530 USB2.0 adapter Setting

Vigor 530 USB 2.0 Adapter has its own management software, named Vigor 530 USB2.0 adapter Setting, and users can control all functions provided with it. The link-status icon  appears in the Windows System Tray. The Setting includes six tabs: Status, Configuration, SiteSurvey, WEP, Domain and About.

The definition of the color of the link-status icon is as follows:

 Connected (Green); Link quality: 100%.

 Connected (Green); Link quality: good.

 Connected (Green); Link quality: poor.

 Disconnected (Gray).

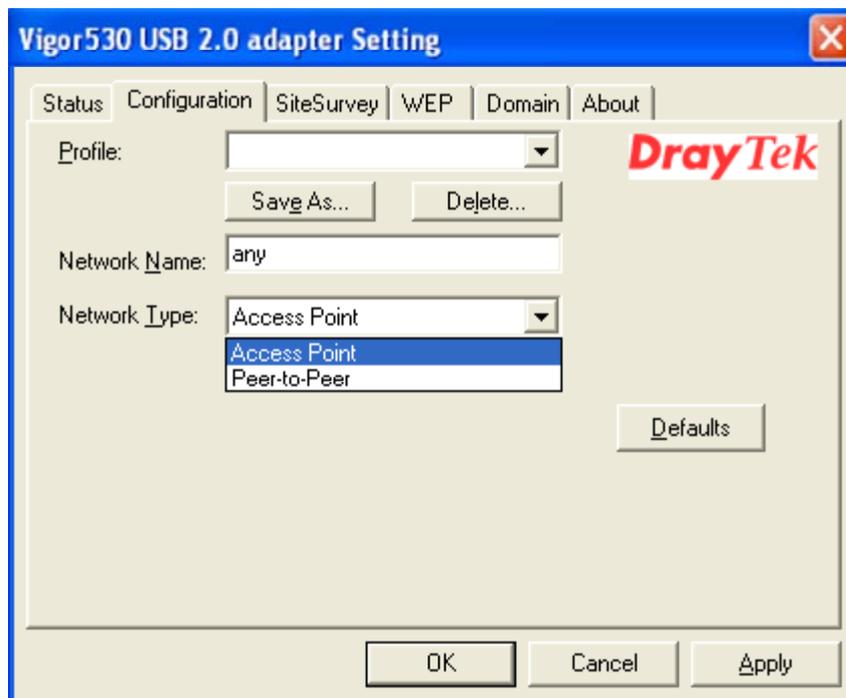
In Peer-to-Peer (Ad Hoc) mode, in one workgroup, the Channel and SSID of each station must be the same—therefore they can communicate with each other within the local LAN properly. Moreover, all connected computers should have the same net ID and subnet ID.

**NOTE!** *To open Vigor 530 USB2.0 adapter Setting, you may double click the status icon in the Windows System Tray.*

### 3.4 Basic Setting for Infrastructure Mode

To connect with an Access Point, please follow the process below:

1. Select the “Configuration” tab
  2. Select “Access Point” for Network Type
  3. Select or enter the correct Network Name
  4. Press the “Apply” button.
- ◆ **Profile** allows you to save five sets of default settings. After entering the values of the settings (such as Network Name and Network Type), set a name in the Profile field. Click “Apply” button.
  - ◆ **Network Name** is the group name that will be shared by every member of your wireless network. You will only be able to connect with an Access Point (AP), which has the same Network Name. Note that the Network Name will be case sensitivity.



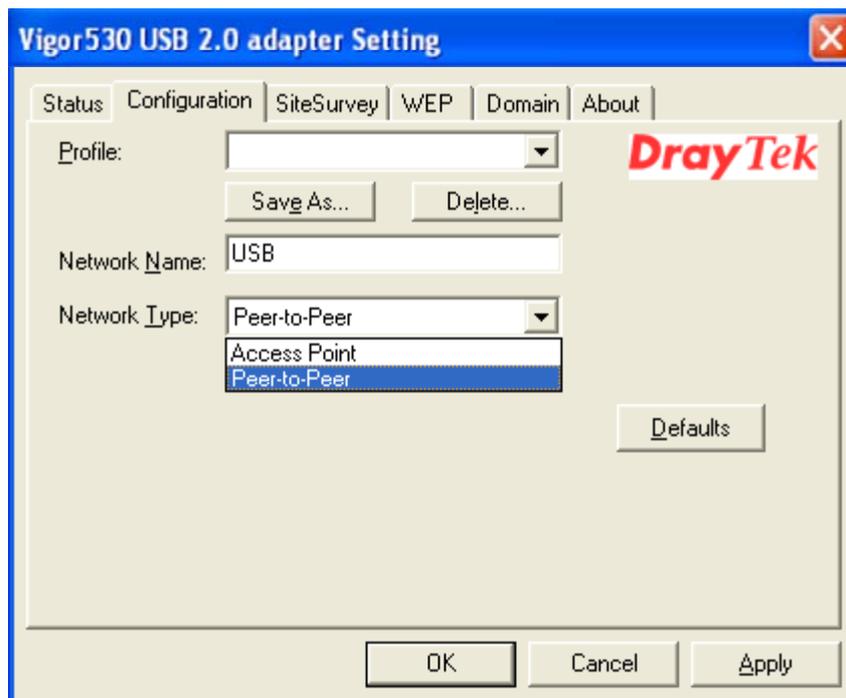
**NOTE!** You can key in “*any*” for name work name so that Vigor 530 USB2.0 adapter can search for the available network automatically.

### 3.5 Basic Setting for Peer-to-Peer Mode

If you have several 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, then you can select the “Peer-to-Peer” mode on your Vigor 530 USB 2.0 adapter Setting.

Please follow the steps below to set the “Peer to Peer” network:

1. Select “Configuration” tab.
  2. Select “Peer-to-Peer” for Network Type.
  3. Type in the Network Name.
  4. Press the “Apply” button.
- ◆ Every member of your Peer-to-Peer network must set to the same Network Name, which is case sensitive.



### 3.6 Remove your Vigor 530 USB 2.0 Adapter

Remove the Vigor 530 USB2.0 Adapter by unplugging the adapter directly. However, in Windows XP/ME and Windows 2000, please follow the Safely Remove Hardware procedure. You can find a safe removal icon in your computer's notification area.

1. Double click the **safe removal 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 Vigor 530 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) prior to removing the Vigor 530 USB 2.0 Adapter.*

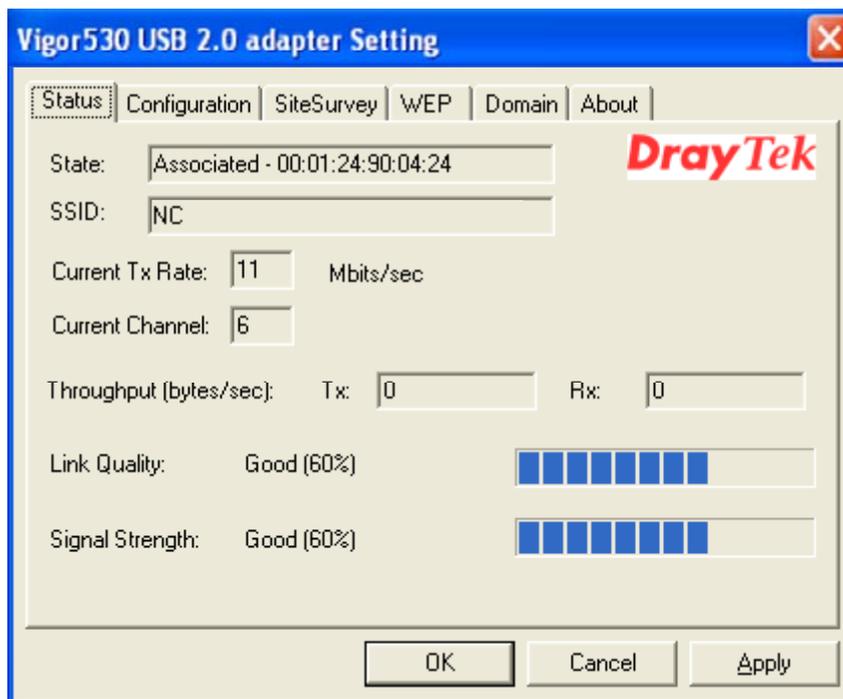
### **3.7 Uninstall the Vigor 530 USB2.0 adapter Setting / Driver**

1. Make sure the **Setting page is closed**.
2. Go to windows **Start > Programs > Vigor 530 > UnInstall Vigor 530 USB2.0 adapter**
3. **Follow the uninstall wizard** to complete the uninstallation.
4. **Click “Finish”** when uninstallation is completed.

# 4. Using Vigor530 USB2.0 adapter Setting

## 4.1 Status Tab

The Status tab displays information on the current status of your connection to the wireless LAN.



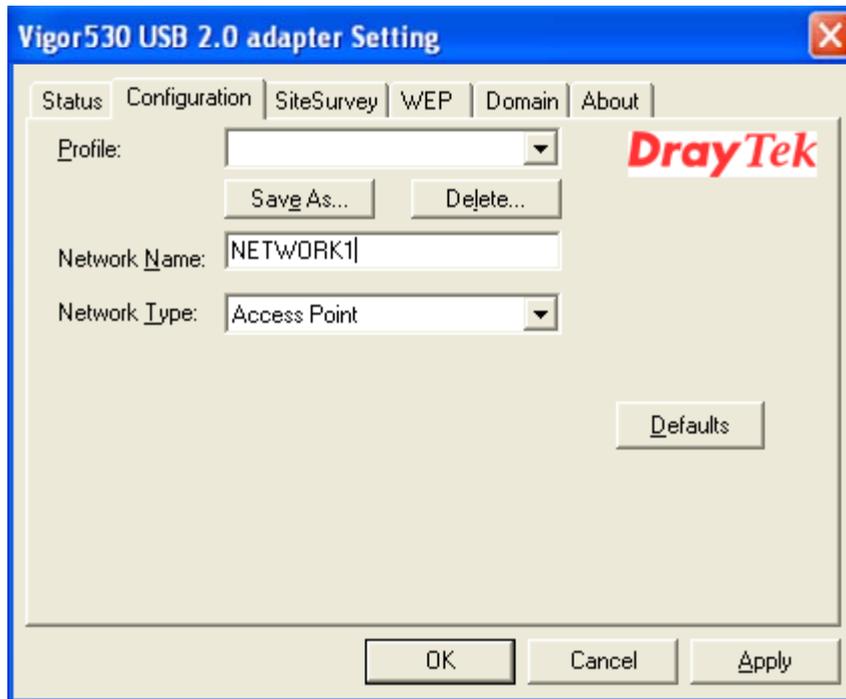
The fields in this page provide the following information:

- ◆ **State:** shows the association state of your computer with the wireless LAN.  
Possible values for this field are:
  - **AdHoc:** The adapter is operating in Peer-to-Peer mode. This field also shows the virtual MAC address used by computers participating in the AdHoc network.
  - **Associated:** The adapter is operating in Infrastructure mode. This field also shows the MAC address of the Access Point with which you are communicating.
  - **Listening:** Indicates that the adapter is listening on all allowed channels, but has not yet found a Peer-to-Peer or infrastructure network with which to associate.
  - **Stopped:** The radio has been stopped by the Disable Radio Button.
  - **Scanning:** The adapter is scanning for transmissions by other wireless adapters on all channels.
  - **Associating:** The adapter is in the process of associating with a network
  - **Not Associated:** The adapter has not found any network with which to associate.

- **Hardware Radio Switch OFF:** The radio has been disabled by moving the hardware radio switch to the off position. Note that not all adapters have a hardware switch.
- ◆ **SSID:** shows the name of the connected wireless network.
- ◆ **Current Tx Rate:** shows the current transmit rate of the current association.
- ◆ **Current Channel:** shows the channel on which the connection is made. In Infrastructure mode, this number changes as the radio scans the available channels.
- ◆ **Throughput:** shows the short term transmit and receive throughput in bytes/second, and is continuously updated.
- ◆ **Link Quality:** is based on the quality of the received signal of the Access Point beacon.
- ◆ **Signal Strength:** is based on the received signal strength measurement of the baseband processor of the Beacon signal.

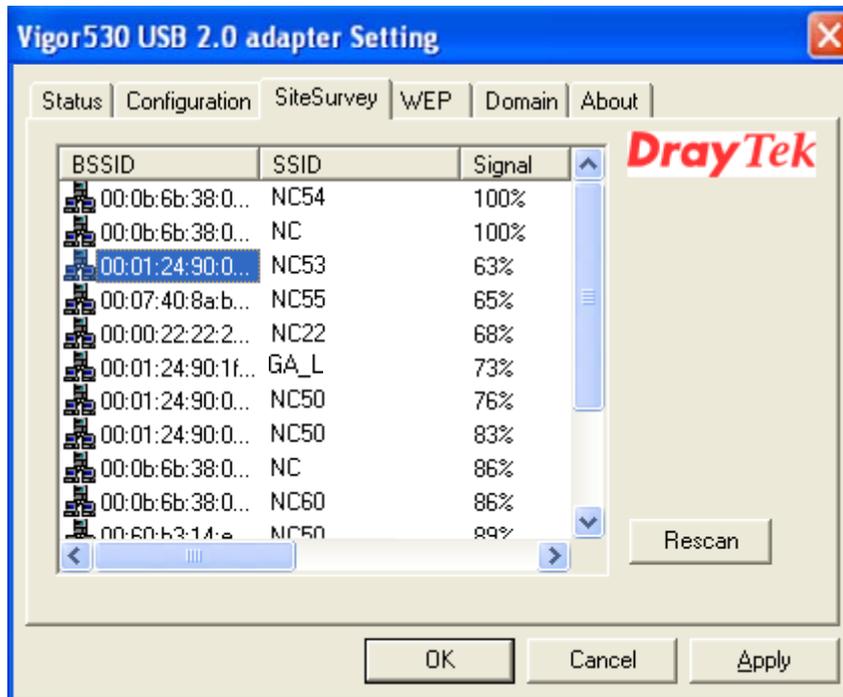
## 4.2 Configuration Tab

The Configuration tab shows information of Network Name, Network Type and Profile. **Profile** allows you to save five sets of default settings. After entering the values of the settings (such as Network Name and Network Type), set a name in the Profile field. You can click “Defaults” button to get default values.



### 4.3 Site Survey Tab

“SiteSurvey” page allows you to check the information of each network or Access Point in vicinity, such as BSSID, SSID, Signal, Channel, WEP and Support Rates. You can double click on the BSSID to connect the chosen network. If you cannot find your designated network name, press “Rescan” button to search again.



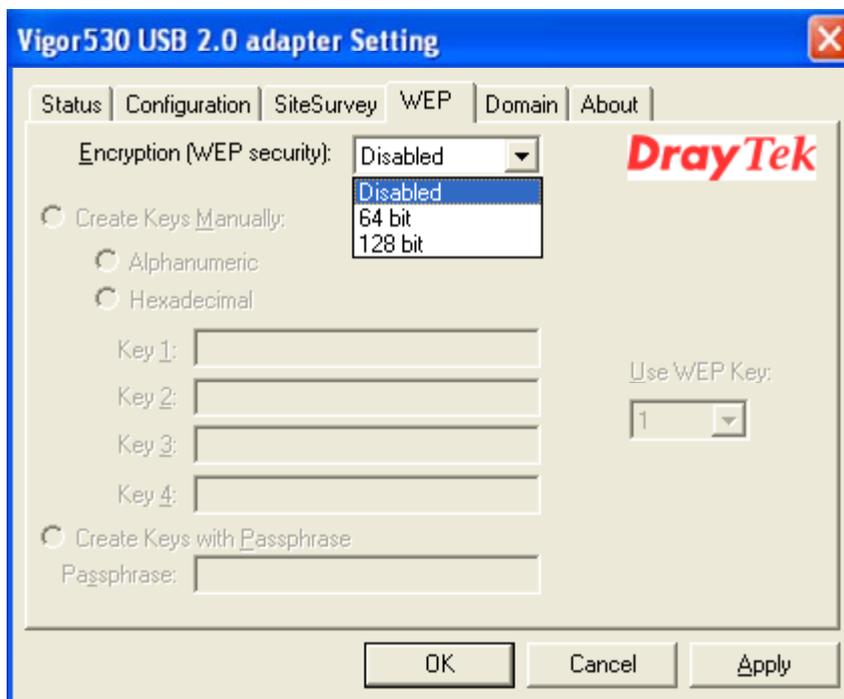
## 4.4 WEP Tab

You may enhance the security of your network by enabling the “Encryption” function. In this tab, you can define the encryption key that your Vigor 530 USB2.0 Adapter should use.

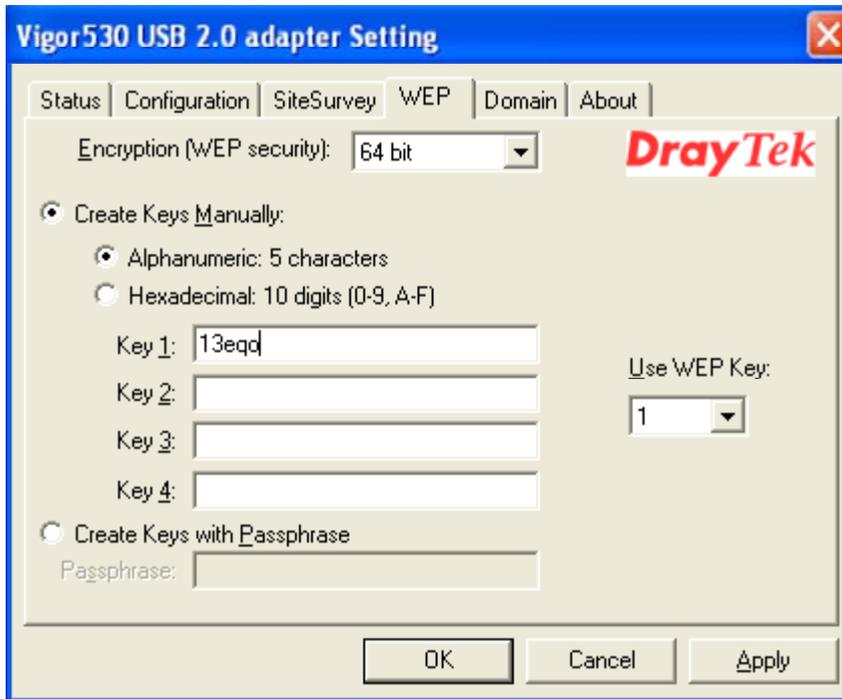
**NOTE!** *When Encryption function enabled, all devices in the same network should set the same WEP key.*

Follow the steps below to set your Encryption Mode:

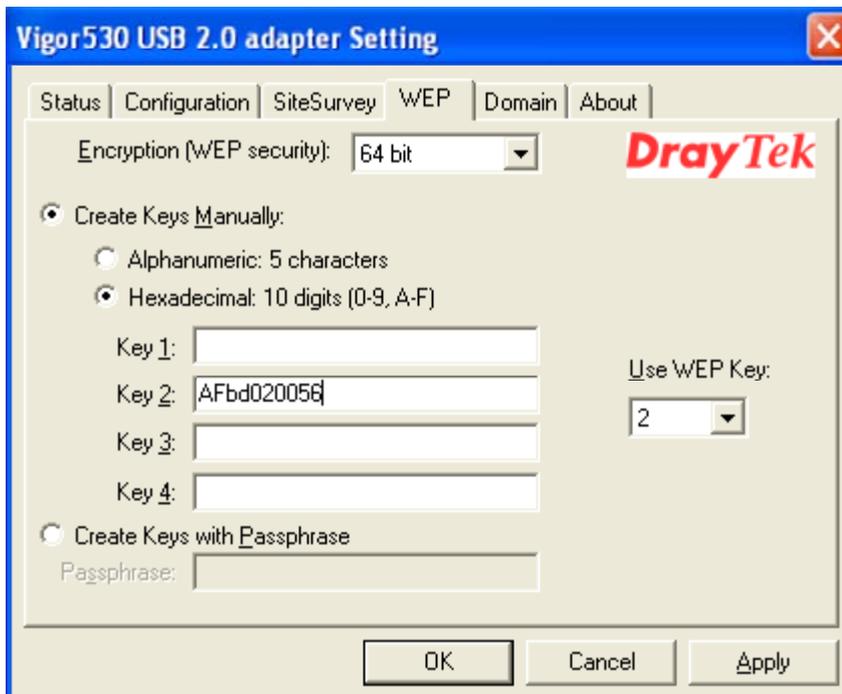
1. Select one mode from Encryption drop-down menu and set the WEP key. Two modes are available:
  - A. 64 bit
  - B. 128 bit
2. Press “Apply” button when finish the WEP setting.



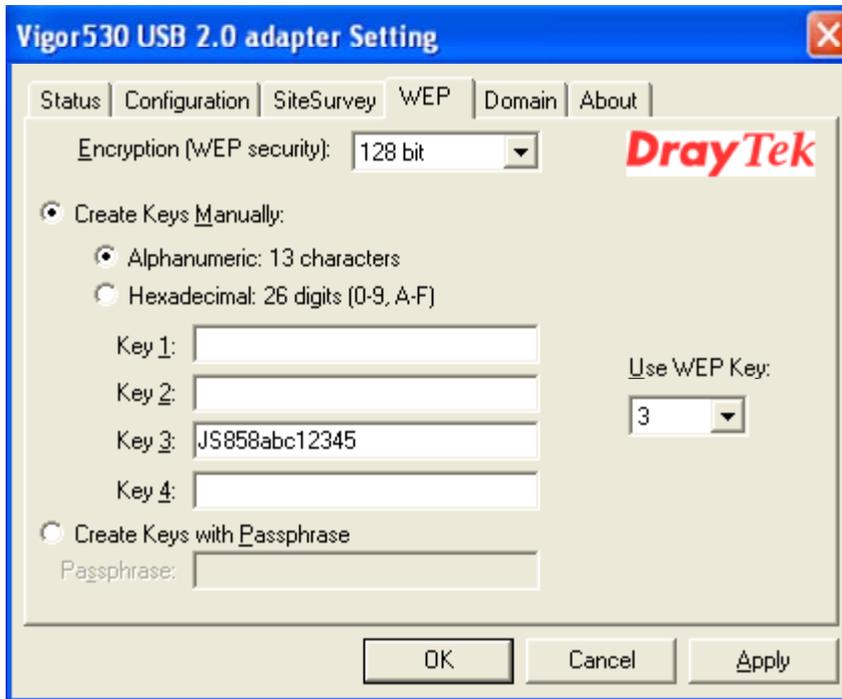
- a. Select “64 bit” and “Alphanumeric”. Choose one key from “Use WEP Key” drop-down menu. Enter 5-digit WEP key.



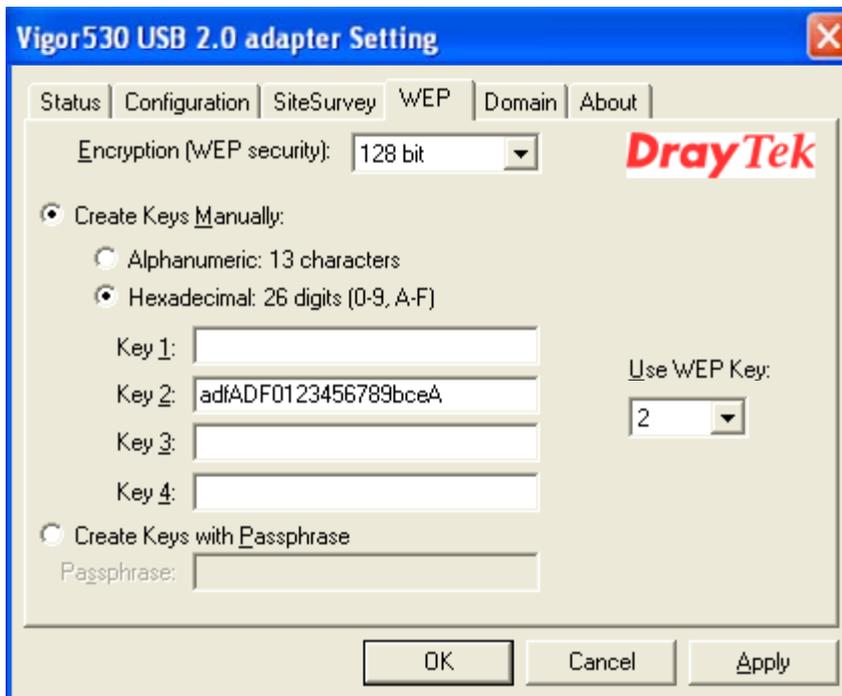
- b. Select “64 bit” and “Hexadecimal”. Choose one key from “Use WEP Key” drop-down menu. Enter 10-digit WEP key.



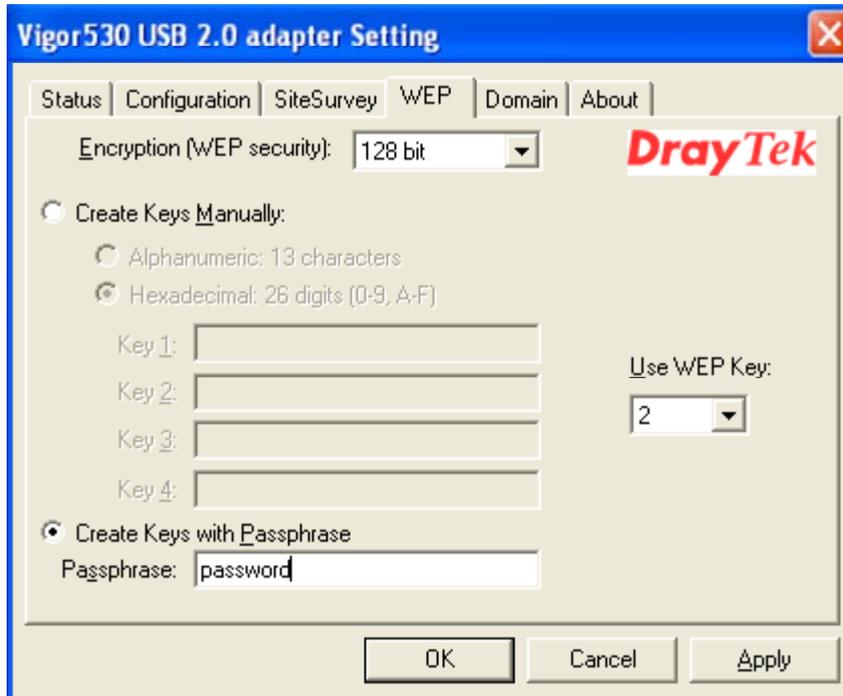
- c. Select “128 bit” and “Alphanumeric” Choose one key from “Use WEP Key” drop-down menu. Enter 13-digit WEP key.



- d. Select “128 bit” and “Hexadecimal” Choose one key from Use WEP Key drop-down menu. Enter 26-digit WEP key.



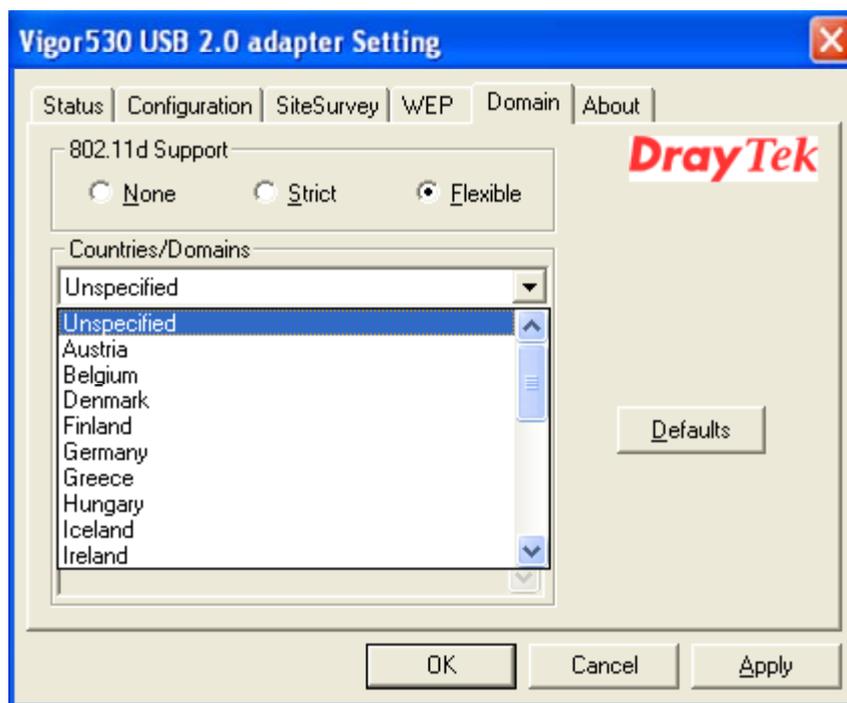
- e. You may choose “Create Keys with Passphrase”.



## 4.5 Domain Tab

A *domain* refers to a territory in which radio frequency transmissions must conform to the standards set by a single regulatory agency. For example, in the United States, the allowed frequencies and channels for wireless data communications are set by the FCC. Every country is free to set its own standards, although in practice many countries may use the same standards.

The IEEE 802.11d standard provides a means for a wireless LAN adapter to detect the domain in which it is located and conform its transmissions to the standards set by the controlling regulatory agency.



### ◆ 802.11d Support

If you specify **None** in the **802.11d Support** field, you must then choose the county in the **Countries/Domains** field which corresponds to your location. In this case your adapter operates according to the standards set by the appropriate regulatory agency.

**NOTE!** *If you specify **Peer-to-Peer** as the network type, you must specify **None** in the **802.11d Support** field.*

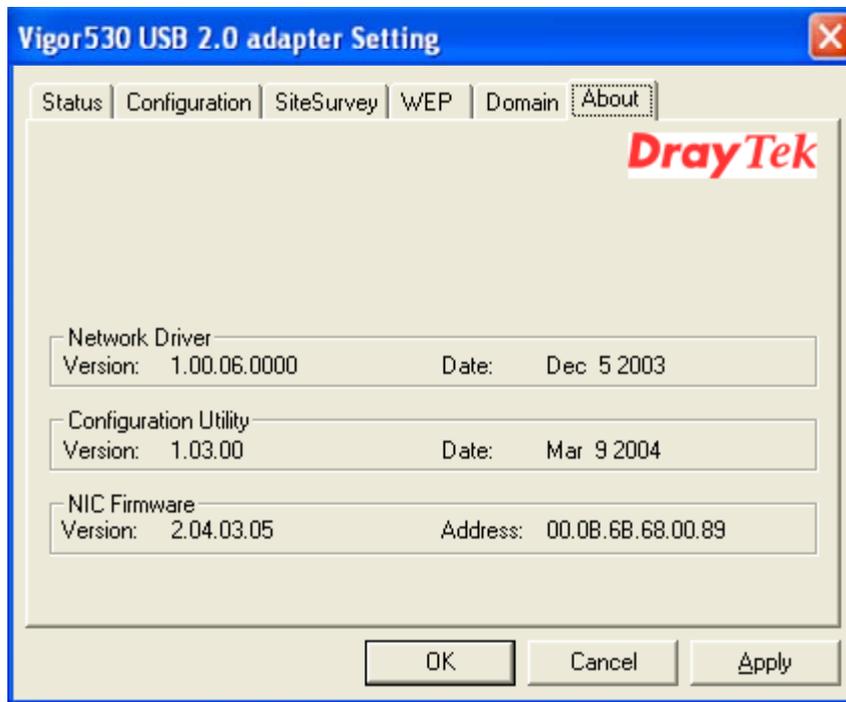
If you choose **Strict** in the **802.11d support** field, your adapter will only communicate with Access Points, which provides 802.11d support. In this case, the adapter scans all communications channels for an Access Point which provides information on the channels, frequencies, and power levels permitted in your location. Once it finds the Access Point, the adapter conforms its operations to these standards. The adapter will not communicate with an Access Point that does not provide this information, nor will it join or create a Peer-to-Peer network if Strict 802.11d support is chosen.

If you choose **Flexible** in this field, your adapter can communicate with any Access Point it finds. In this case, you must also choose the county in the **Countries/Domains** field which corresponds to your location. Your adapter then searches for an Access Point which provides information on the channels, frequencies, and power levels permitted in your location. If it finds such an Access Point, the adapter conforms its operations to these standards.

If it does not find an Access Point which provides this information, it then will establish communications with any Access Point it finds.

## 4.6 About Tab

This tab provides you the version information of Network Driver, Configuration Utility and NIC Firmware.



# 5. Network Application

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This section consists of the network applications of Vigor 530 USB 2.0 Adapter, including:

- A. To Survey the network neighborhood
- B. To Share Your Folder with Your Network Member(s)
- C. To Share Your Printer with Your Network Member(s)
- D. To Access the Shared Folder(s)/File(s) of Your Network Members(s)
- E. To Use the Shared Printer(s) of Your Network Member(s)

In fact, the network applications of Vigor 530 USB 2.0 Adapter are the same as they are in a wired network environment. You may refer to the following 3 examples of Surveying the Network Neighborhood, File Sharing and Using the Shared Folder.

## 5.1 Surveying the Network Neighborhood

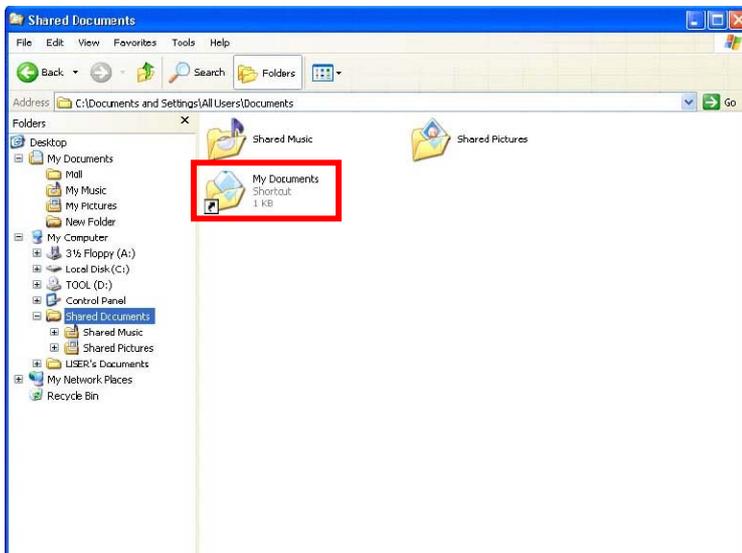
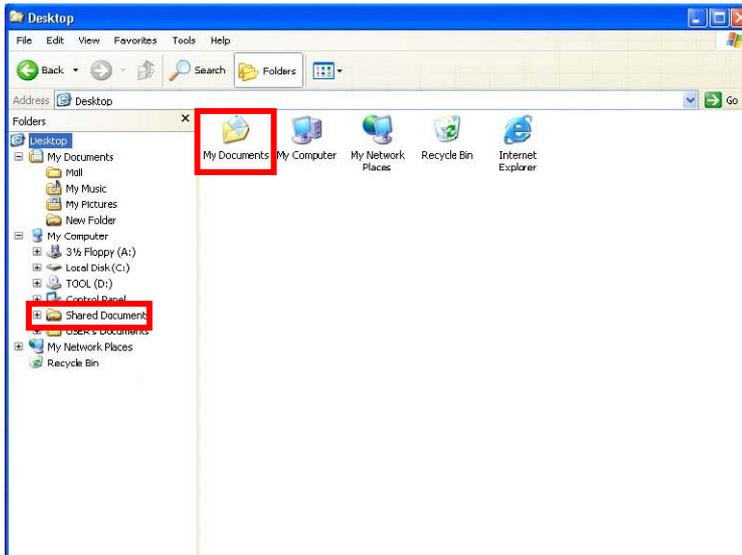
When multiple base stations are up and running in your wireless network, you can use the procedure described below to display the other computers:

1. **Double-click My Network Places** to display all stations in your Microsoft Windows Network Group.
2. To display other workgroups in the network environment, **double-click Entire Network**.
3. If there is a **second network operating system** running in your network environment (for example a Novell NetWare network), the “Entire Network” window will also display available servers running under the second network operating system. If you click on these servers, you may be asked to **enter your user name and password** that applies to the other network operating system. If you cannot find it, verify whether the other wireless computers are:
  - Powered up and logged on to the network.
  - Configured to operate with identical Microsoft Network settings concerning:
    - Networking Protocol.
    - Wireless Network Name.

To enable the sharing of **Internet access**, you should set your WLAN mode as “**Infrastructure**” and connect to the access point.

## 5.2 File Sharing

Vigor 530 USB 2.0 Adapter allows the sharing of files between computers that are logged onto the same wireless network. If you want to share your folder “My Documents” with other computers of the wireless network, please **highlight the folder “My Documents”** and drag it to **Shared Documents** folder.



Sharing files in the IEEE802.11g wireless network will be like sharing files on a wired LAN.

## 5.3 Using the Shared Folder

If you would like to access a shared folder stored in other stations of same network, please follow the process below:

1. Double-click the “My Network Places” icon, and then double-click the computer where the shared folder is located.
2. Double-click the folder you want to connect to.
3. Now you may open the needed file(s).

**Note!** *If a password is required, the Windows will prompt a password column to you. Then you need to enter the password that had been assigned to this shared folder.*

## 6. Product Specifications

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Item	Key specifications
Frequency range	<ul style="list-style-type: none"> <li>➤ U-NII: 2.412 ~ 2.484Ghz</li> <li>➤ Europe: 2.412 ~ 2.484Ghz</li> <li>➤ Japan: 2.471 ~ 2.497Ghz</li> </ul>
Modulation technique	<ul style="list-style-type: none"> <li>➤ 802.11b: DSSS (CCK, BPSK, QPSK)</li> <li>➤ 802.11g: OFDM</li> </ul>
Host interface	<ul style="list-style-type: none"> <li>➤ USB 2.0</li> </ul>
Channels support	<ul style="list-style-type: none"> <li>➤ US/Canada: 11 (1 ~ 11)</li> <li>➤ Major European country: 13 (1 ~ 13)</li> <li>➤ France: 4 (10 ~ 13)</li> <li>➤ Japan: 14 (1~13 or 14<sup>th</sup>)</li> </ul>
Operation voltage	<ul style="list-style-type: none"> <li>➤ 5V +/- 10%</li> </ul>
Current consumption	<ul style="list-style-type: none"> <li>➤ Transmission mode    467mA @ 5VDC(Ave)</li> <li>➤ Receive mode            506mA @ 5VDC(Ave)</li> <li>➤ standby mode            384 mA @5VDC(Ave)</li> </ul>
Output power <pre>(preliminary)</pre>	<ul style="list-style-type: none"> <li>➤ 13 dBm@ 802.11g mode</li> <li>➤ 18 dBm@ 802.11b mode</li> </ul>
Operation distance <pre>(preliminary)</pre>	<ul style="list-style-type: none"> <li>➤ <b>Indoor:</b> 0-80m</li> <li>➤ <b>Outdoor: 50-350m</b></li> </ul>
Operation System supported	<ul style="list-style-type: none"> <li>➤ Windows® 98SE, Me, 2K, XP</li> </ul>
Dimension	<ul style="list-style-type: none"> <li>➤ 72mm ( L ) * 49mm(W) * 13mm(H)</li> </ul>
Security WEP	<ul style="list-style-type: none"> <li>➤ 64-bit WEP,128-bit WEP</li> </ul>
Operation mode	<ul style="list-style-type: none"> <li>➤ Infrastructure &amp; Ad-hoc mode</li> </ul>
Transfer data rate	<ul style="list-style-type: none"> <li>➤ <b>802.11g:</b> 54, 48, 36, 24, 18, 12, 9, 6Mbps, auto-fallback</li> <li>➤ <b>802.11b:</b> 11, 5.5, 2, 1Mbps, auto-fallback</li> </ul>
LED indicator	<ul style="list-style-type: none"> <li>➤ WLAN activity indicator</li> </ul>
Operation temperature	<ul style="list-style-type: none"> <li>➤ 0° ~ 55° C</li> </ul>
Storage temperature	<ul style="list-style-type: none"> <li>➤ -25° ~ 70° C</li> </ul>
Wi-Fi®	<ul style="list-style-type: none"> <li>➤ WiFi Alliance Compliant</li> </ul>
WHQL	<ul style="list-style-type: none"> <li>➤ Microsoft® XP, 2K Complaint</li> </ul>
EMC certificate	<ul style="list-style-type: none"> <li>➤ FCC part 15 (USA)</li> <li>➤ IC RSS210 (Canada)</li> <li>➤ Telec (Japan)</li> <li>➤ ETSI (Europe)</li> <li>➤ The above regulation depends on customer's request</li> </ul>