

OzWCL54U

User's Manual

54 Mbps Wireless 11g USB Adapter

OZENDA

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Revision History

Revision	Updated	Notes
1.00	08/15/2005	Initial Release
1.01	08/16/2005	Modify the LED status

Introduction

Thank you for purchasing the Wireless Adapter. This Wireless Adapter is easy to use and easy to setup. If you are tired of all those messy wires needed to connect a lap-top to your Home network, then take your networking to the next level with the Wireless Adapter. You will be able to share files, printers and even your High-Speed Internet access wirelessly.

➤ **Package Contents**

Make sure the following items came in this package:

- Wireless Adapter
- Wireless Adapter Installation and User's Manual CD

➤ **Minimum System Requirements**

- Microsoft Windows XP, or Windows 2000 installed

Connecting the Wireless Adapter

1. Your computer can be on or off; it will not affect the installation process. Locate an available USB slot on your PC. If you are not sure where this may be, please consult your computer's User Manual.
2. Insert the Wireless Adapter into the appropriate USB slot. Your hardware is now installed.

Status LEDs

LED Status	MEANING WLAN card activity
LED1 on (Green)	Connect with Access Point
LED1 off	All other status
LED2 speed blink (Orange)	Data Transferred / Data Received
LED2 blink (Orange)	Scanning for the Access Point
LED2 off	All other status

Installing the Wireless Adapter

1. Windows XP service Pack 2

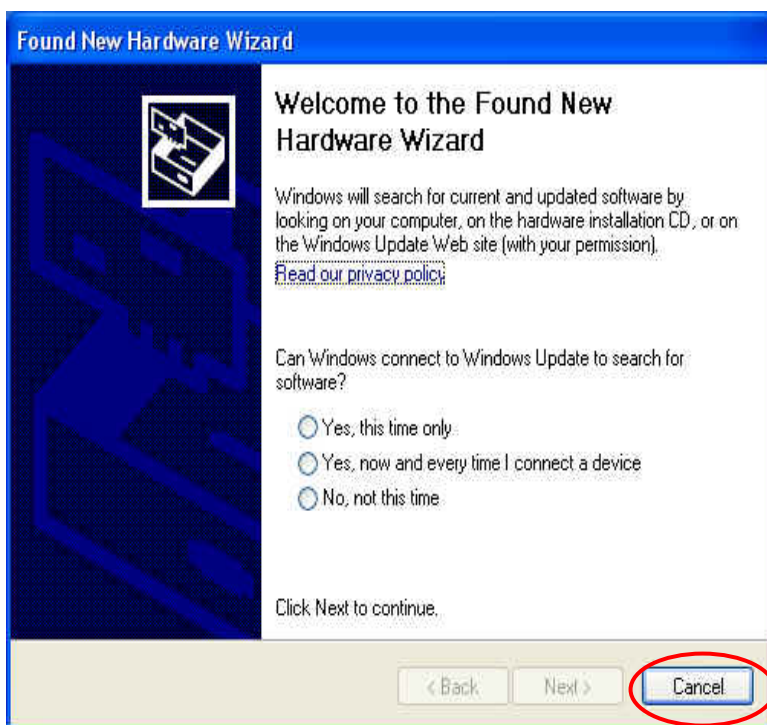


NOTE:

If you have installed the Wireless Adapter driver before, please uninstall the old version first.

1-1 Install Wireless Adapter Driver and Utility

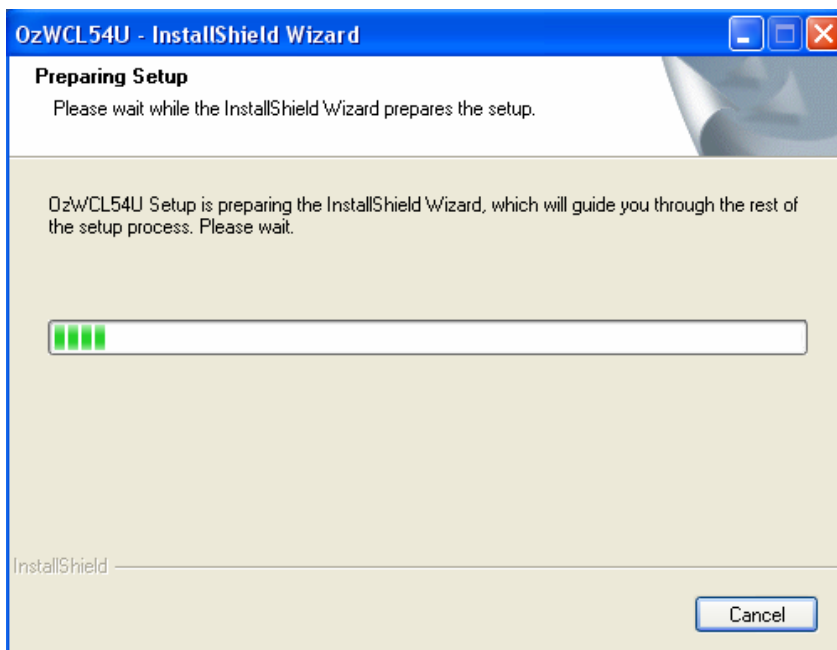
1. After you have installed the Wireless Adapter your computer will display a **Found New Hardware Wizard** screen, click **Cancel** to continue.



2. Insert *Wireless Adapter Installation and User's Manual* CD into your CD-ROM, then the installation will be activated automatically. Click the **Driver Install** icon to begin the installation.

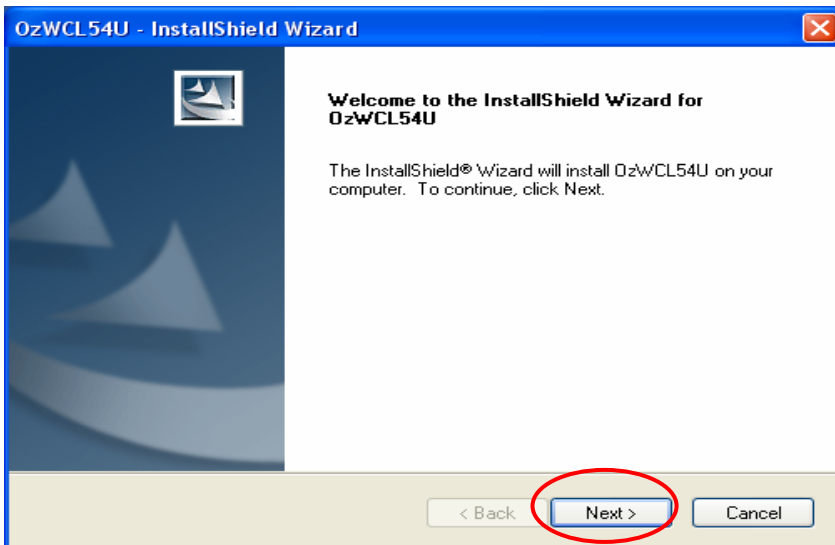


3. **OzWCL54U Setup** will install the driver and utility on your system.

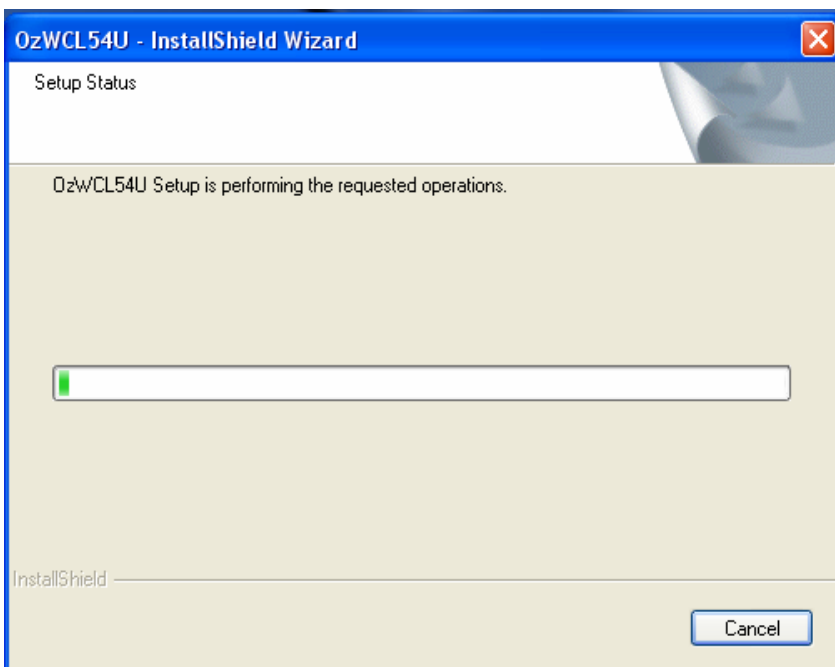


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4. On the **OzWCL54U** screen, click **Next** to accept the InstallShield Wizard for driver installation.



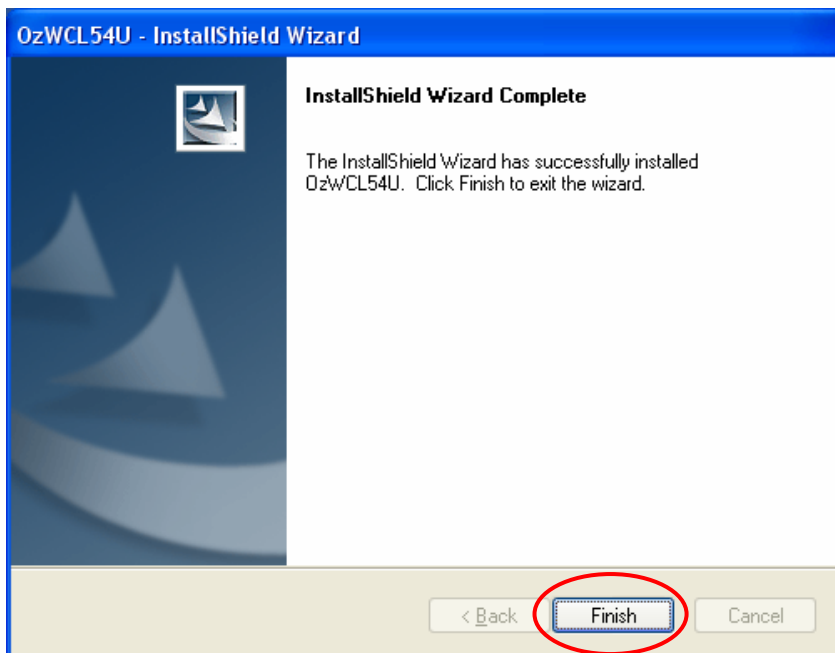
5. **OzWCL54U Setup** begin the installation.



6. Wireless Adapter Driver and Utility are installing.



7. The installation is now complete, please click **Finish**.



➡ **NOTE:**

When you complete the installation, the utility icon  will appear on the system tray. If not, it means that the installation failed. Please uninstall the driver and repeat the process.

1-2 Configuring the Ozenda Wireless Utility

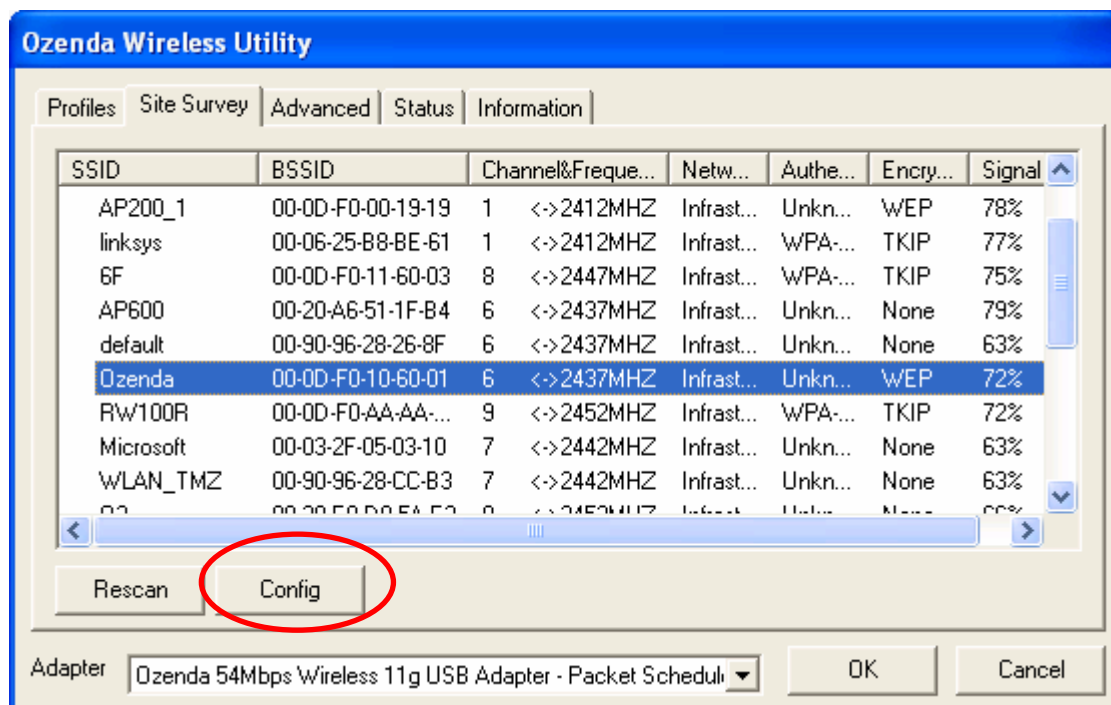


NOTE: If you have installed the **Windows XP Service Pack 2**. You can use the **Windows Zero Configuration** for Wireless Configuring. Please see the **Windows XP User Guide**

1. On the **Notification Area**, double-click the **Ozenda Wireless Utility** icon  in your system tray to begin the utility configuration.



2. Select **Site Survey** Tab, all available Access Points would be listed. Click on the desired Access Point, and click the **Config** button for Wireless configuring.



- On the **Wireless Network Properties** screen, you may set Network Name (SSID), Wireless Network Security Key or AD-HOC network.

Ozenda Wireless Network Properties

Security

Network Name (SSID): Ozenda

Wireless Network Key

This network requires a key for the following:

Network Authentication: OpenSystem

Data Encryption: WEP

Network Key: *****

Confirm Network Key: *****

Key Index (advanced): 0

☐ This is an AD-HOC network; Pls. select desired channel

Channel: 6 -- Frequency (MHZ): 2437MHZ

OK Cancel

- Click on the desired profile, or click the **Connect** button to take effect.

Ozenda Wireless Utility

Profiles Site Survey Advanced Status Information

SSID	Network Type	Authentication	Encryption
Ozenda	Infrastructure BSS	OpenSystem	WEP

Add... Delete Properties Move Up Move Down **Connect**

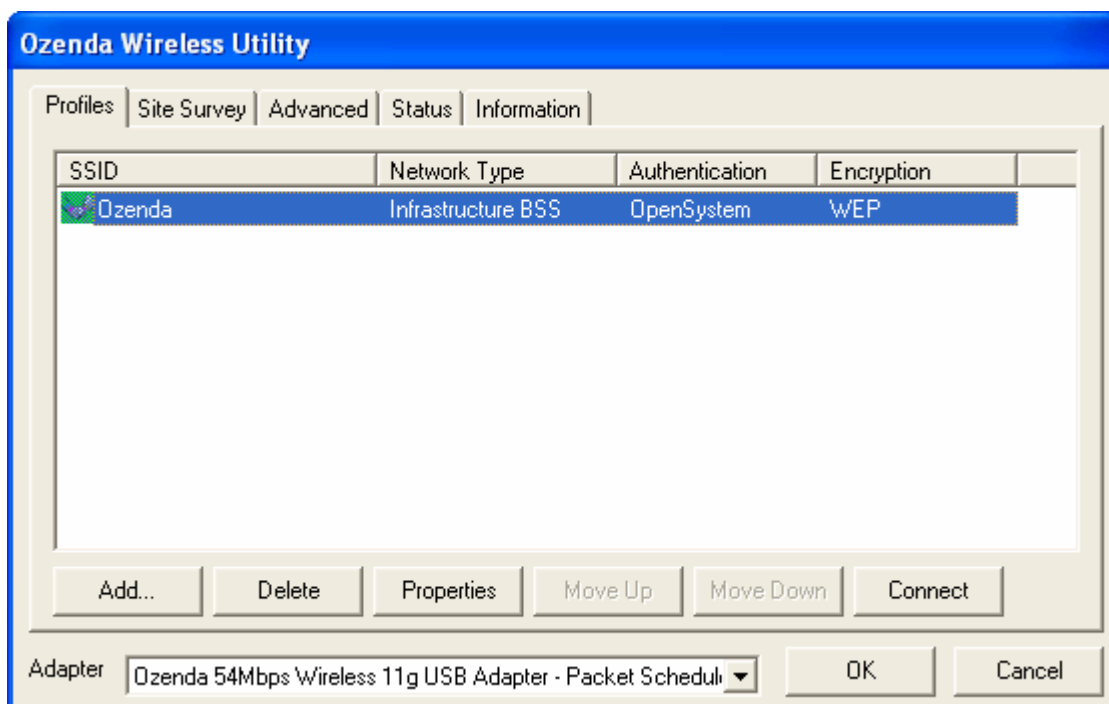
Adapter: Ozenda 54Mbps Wireless 11g USB Adapter - Packet Scheduler

OK Cancel

1-3 Configuration

- **Profile**

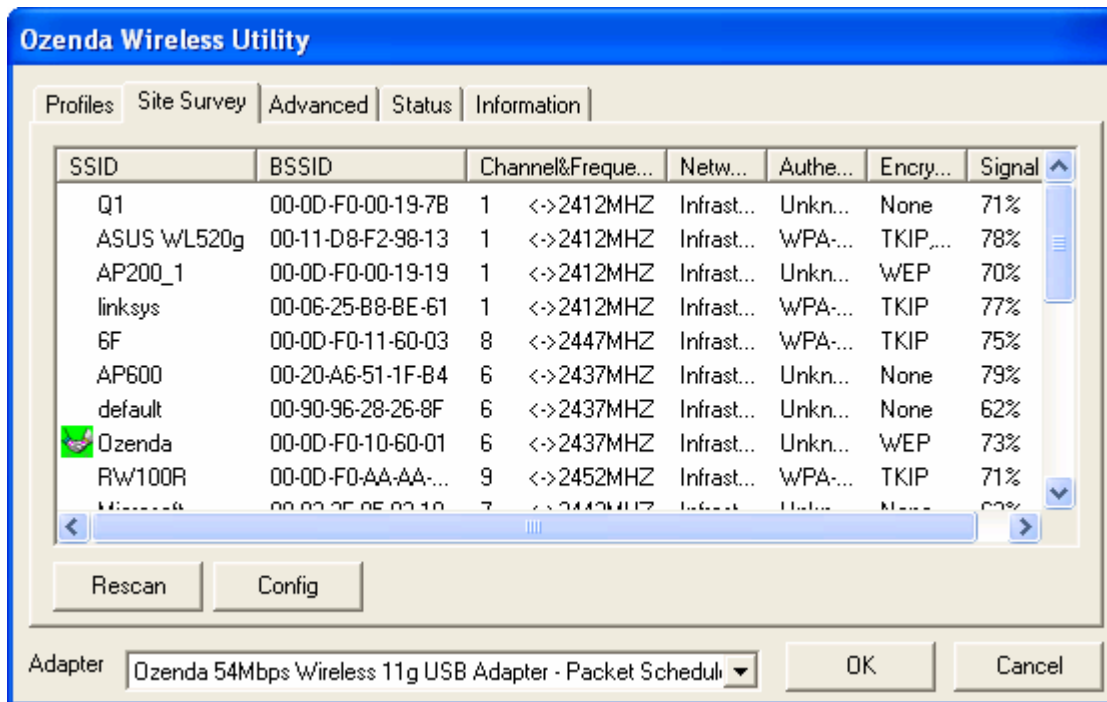
The **Profile Tab** allows you to set values for all parameters by selecting a previously defined profile. To create a profile, click **Add**, type a profile name and set the corresponding parameters. If one of the profiles is no longer used, you may remove it by clicking the **Delete** button. After changing parameters, click the **Connect** button to take effect. You can have multiple profiles and modify the profile at any time.



● Site Survey

Site Survey Tab lists the features of the available Access Points within range of the Wireless Adapter's signal.

Click on the desired Access Point, and click **Config** for Wireless Configuration. You may click **Rescan** to refresh the list.



● Advance

The Configuration Utility also offers the advanced configuration for user to set the Wireless Adapter under certain network environment. These advanced options include RTS Threshold, Fragmentation Threshold, Preamble Type, TX Rate, Power Save, and Region.

- **Status**

- **Network Name**

This field shows the association status to available Access Point with SSID of the Access Point.

- **Link Status**

Shows whether the link is Connect or Disconnected.

- **Current Channel**

Shows the channel on which the connection is made.

- **Current Speed**

Shows the highest transmit rate of the current association.

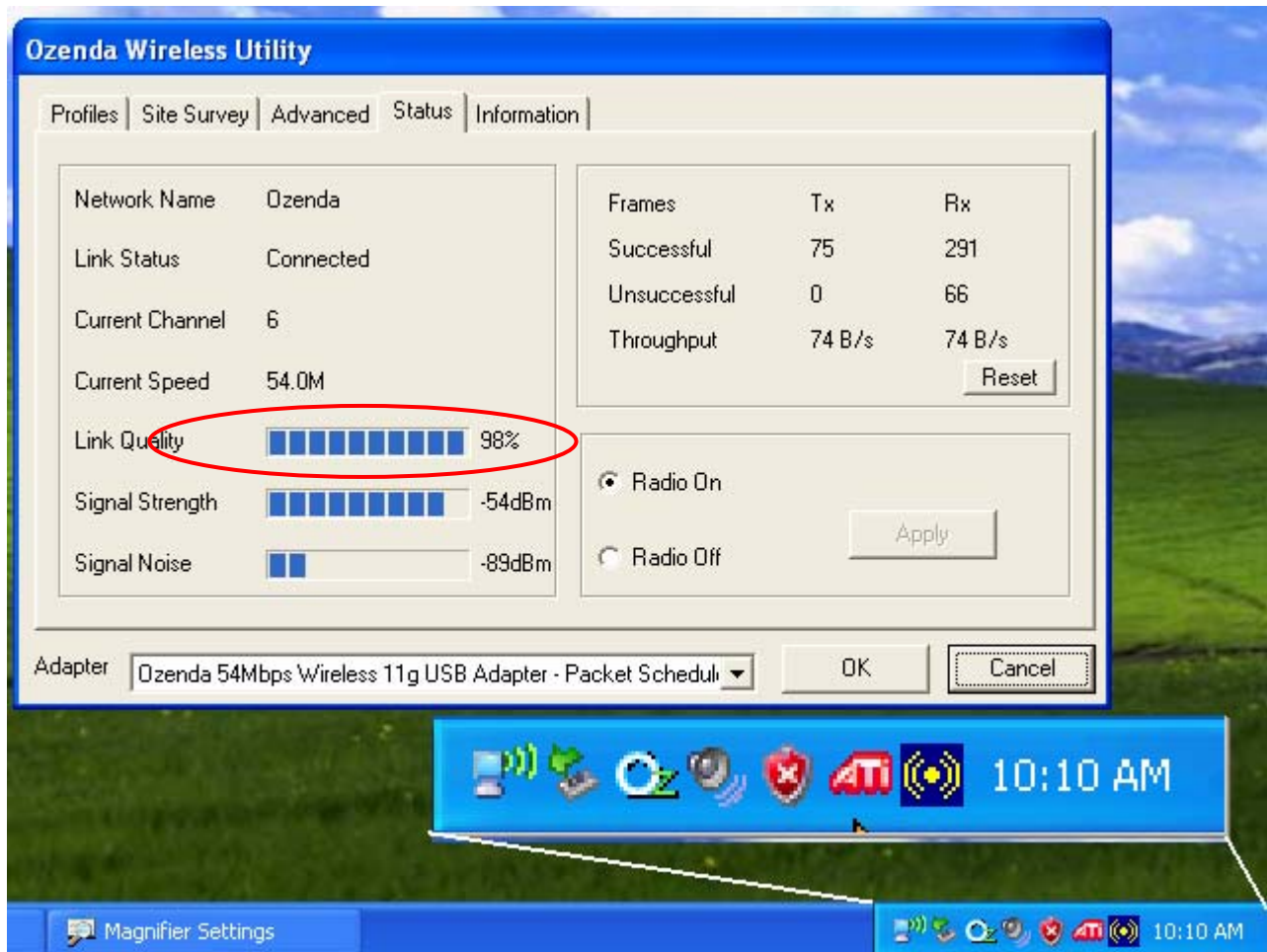
- **Link Quality / Signal Strength**

The Link Quality and Signal Strength bar graph is only active when the node is in Infrastructure Mode.

The bar graph displays the quality and strength of the link between the node and its Access Point.

- **Signal Noise**

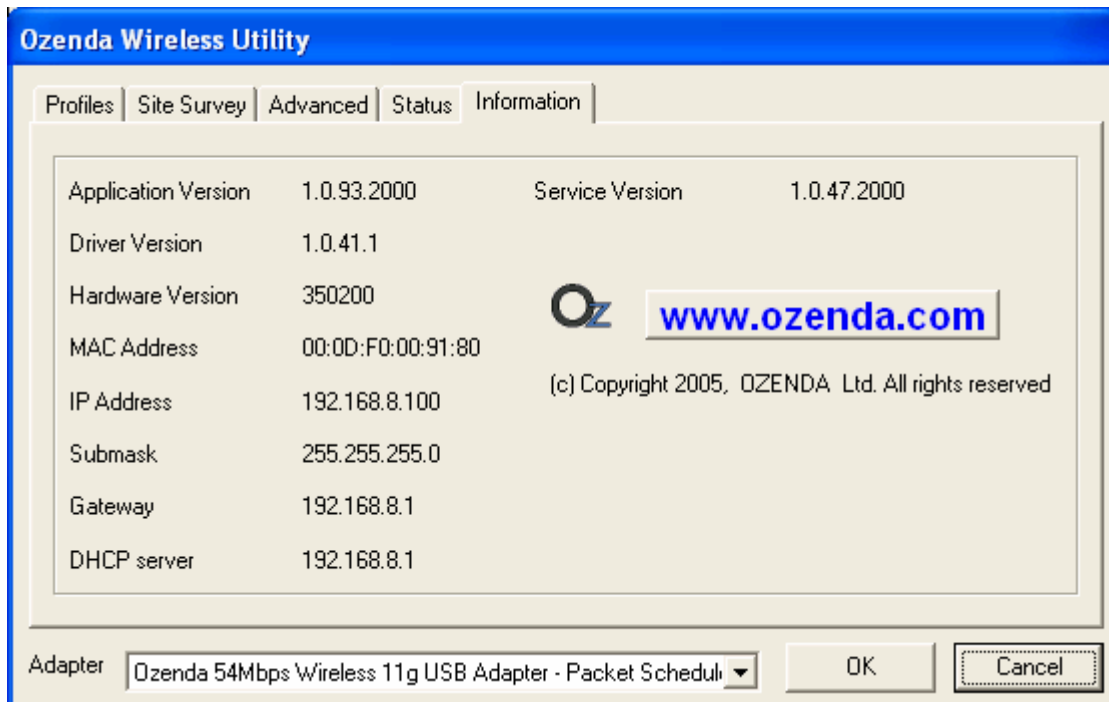
This displays the noise level of the link between the node and its Access Point.



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- **Information**

Information Tab shows the product version including the detail of Configuration Utility, Driver, and NIC MAC Address.

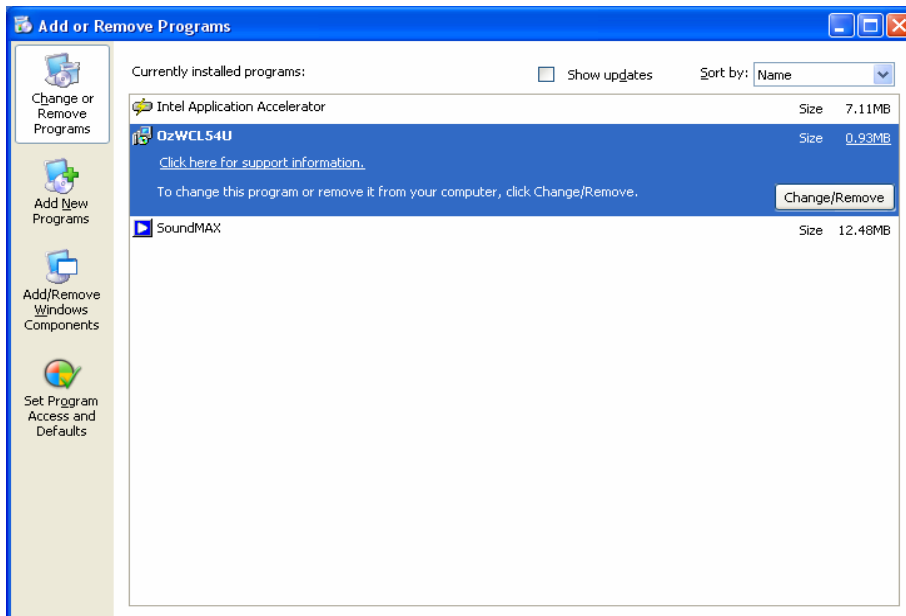


1-4 Uninstalling the Wireless Adapter Driver and Utility

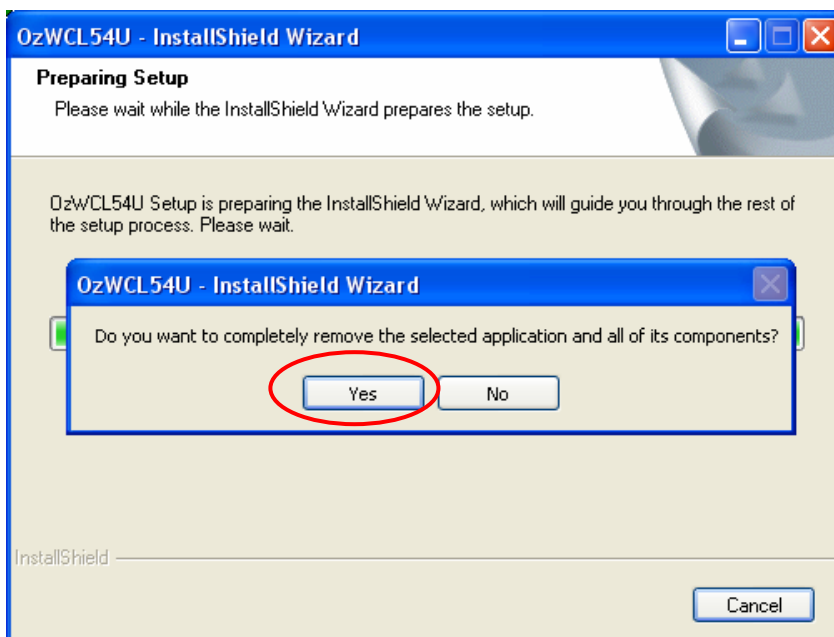
1. For uninstalling the Wireless Adapter, please go to: **Start → Settings → Control Panel → Add or Remove Programs → OzWCL54U** under Windows environment. Then click **Remove**.

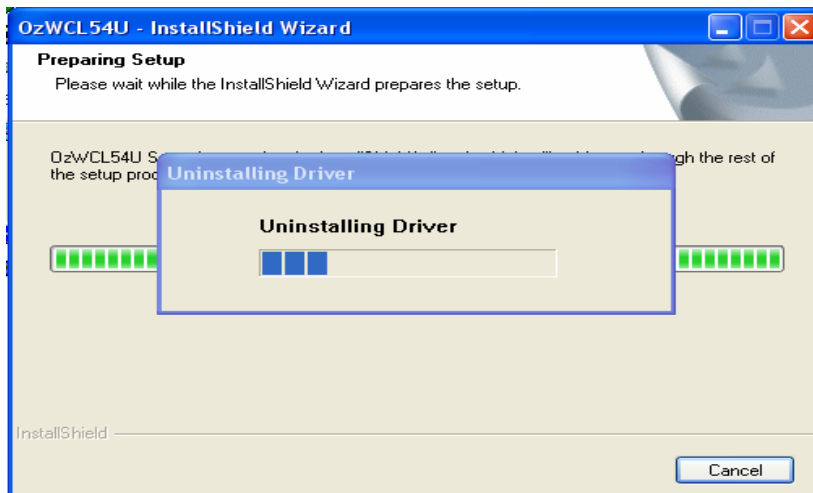


Add or
Remove
Programs

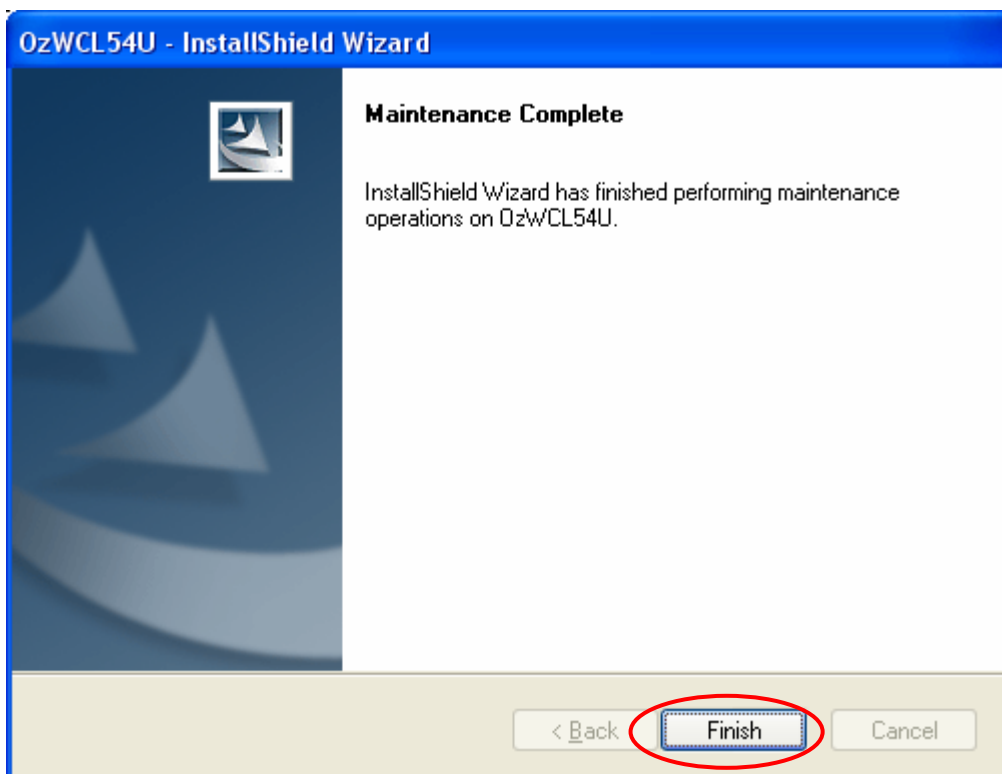


2. On the next screen, click **Yes** button to accept automatically uninstall for Wireless LAN Driver.





3. Click **Finish** button.

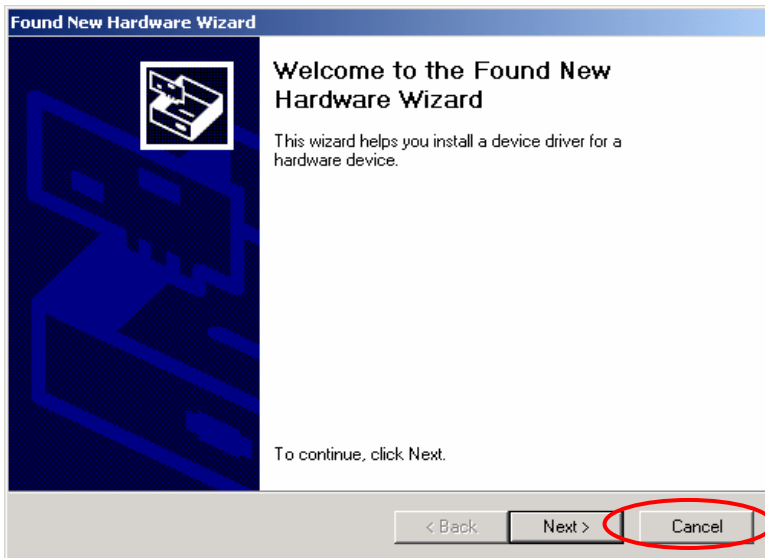


4. The USB Wireless Adapter can now be safely removed from the system when the un-installation is done.

2. Windows 2000

2-1 Install Wireless Adapter Driver and Utility

1. After you have installed the Wireless Adapter your computer will display a **Found New Hardware Wizard** screen, click **Cancel** to continue.

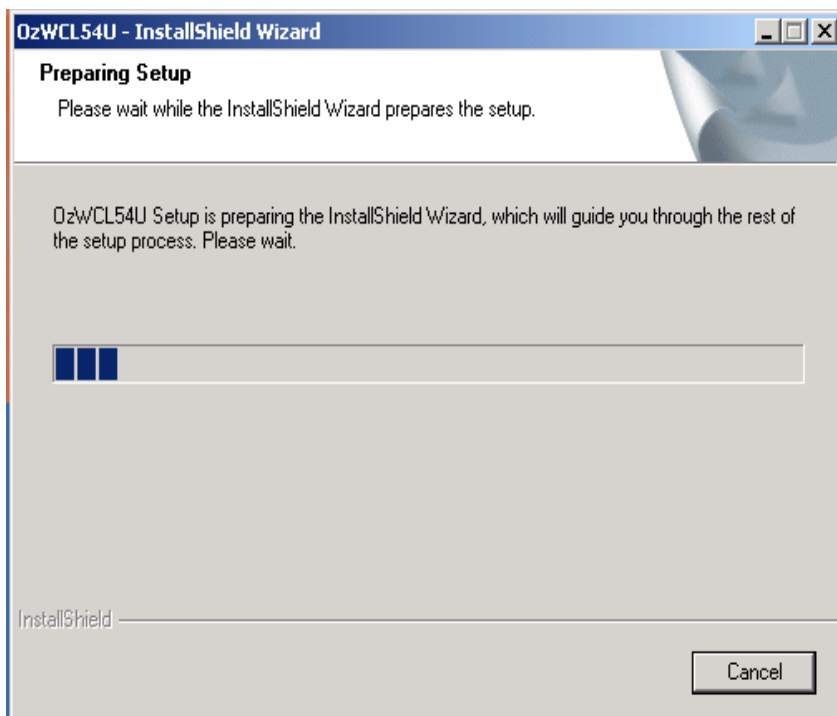


2. Insert *Wireless Adapter Installation and User's Manual* CD into your CD-ROM; then the installation will be activated automatically. Click the **Driver Install** icon to begin the installation.

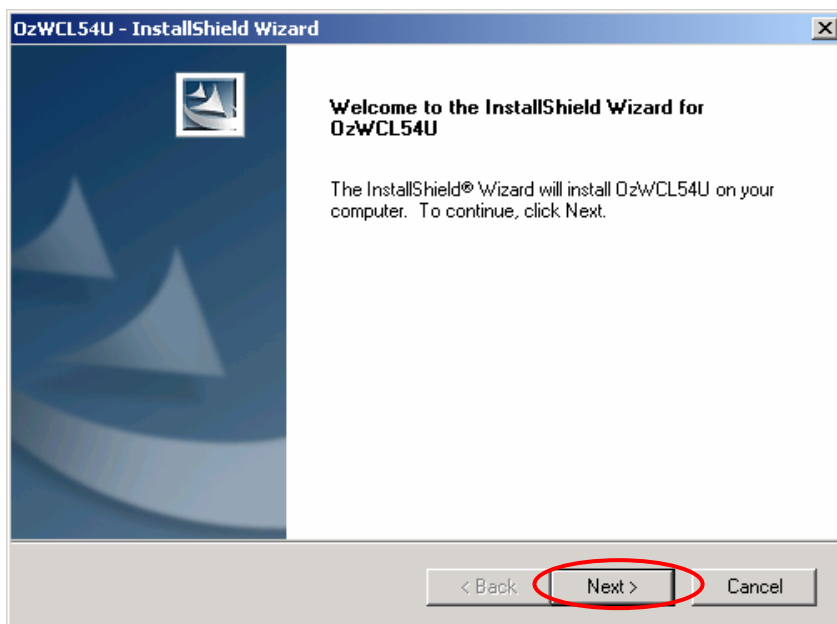


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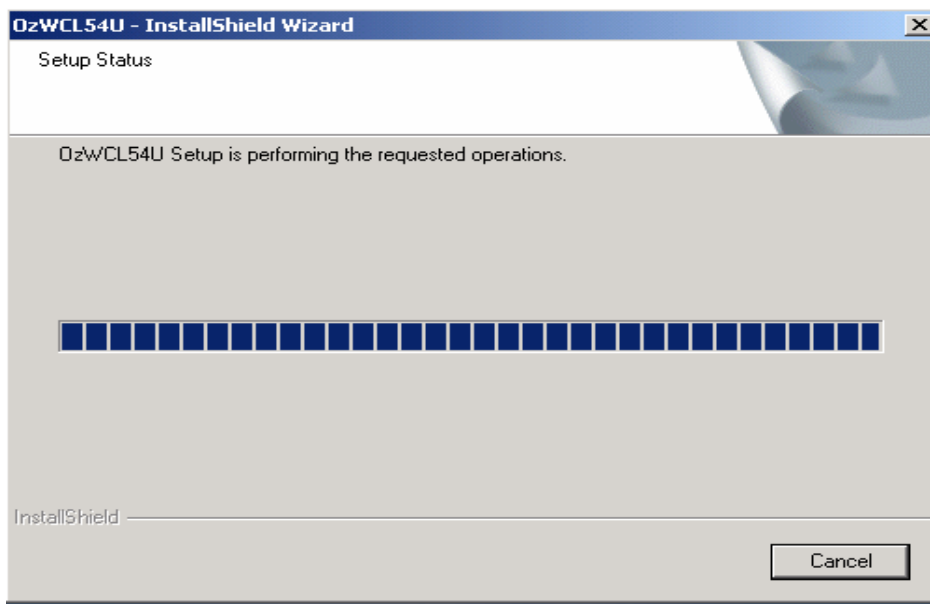
3. **OzWCL54U Setup** will install the driver and utility on your system.



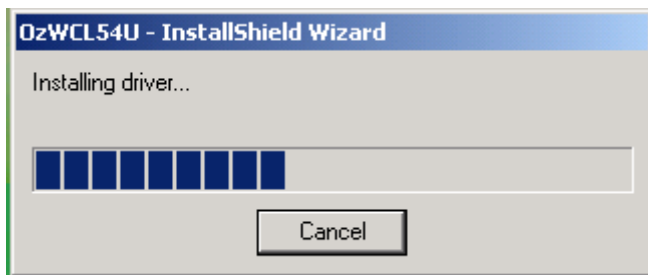
4. On the **OzWCL54U** screen, click **Next** to accept the InstallShield Wizard for driver installation.



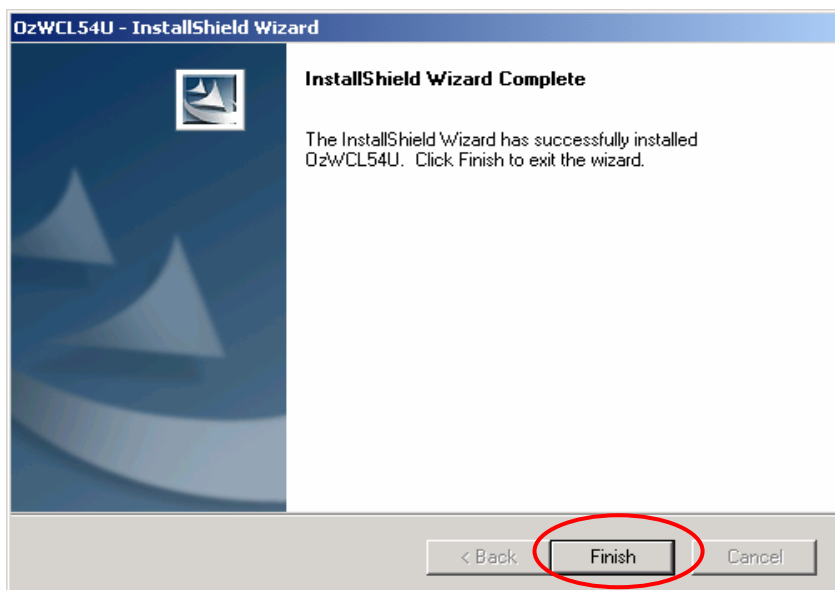
5. OzWCL54U Setup begin the installation.



6. Wireless Adapter Driver and Utility are installing.

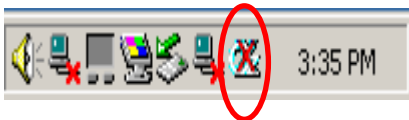


7. The installation is now complete, please click **Finish**.

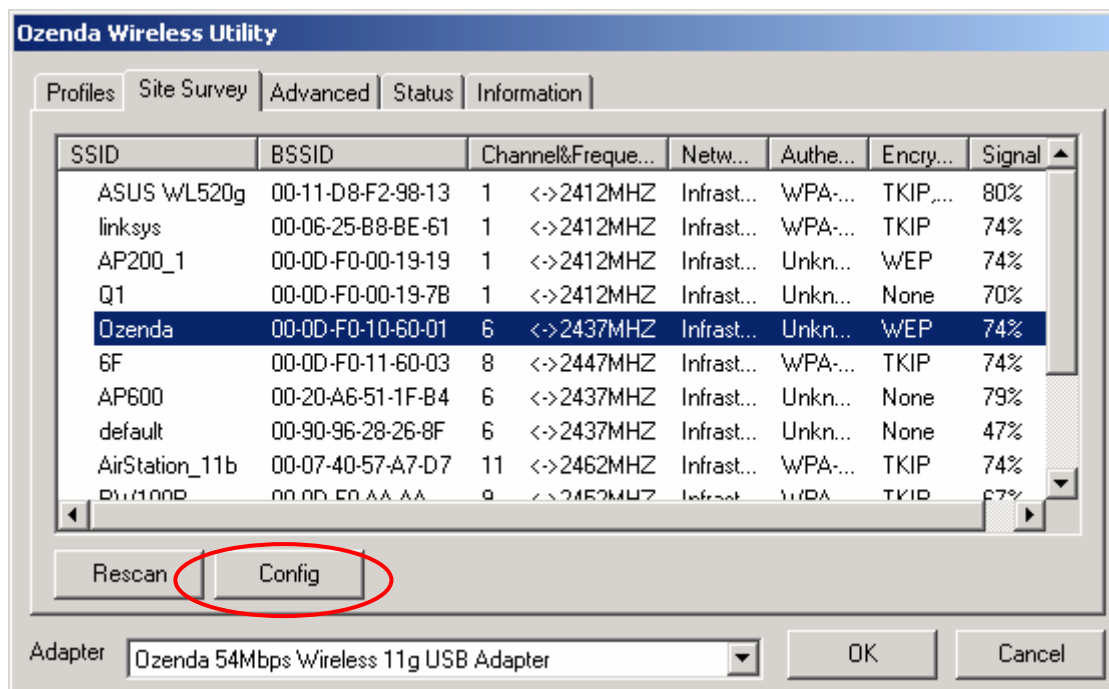


2-2 Configuring the Ozenda Wireless Utility

1. On the **Notification Area**, double-click the **Ozenda Wireless Utility** icon  in your system tray to begin the utility configuration.



2. Select **Site Survey** Tab, all available Access Points would be listed. Click on the desired Access Point, and click **Config** button for Wireless configuring.



- On the **Ozenda Wireless Network Properties** screen, you may set Network Name (SSID), Wireless Network Security Key or AD-HOC network.

The screenshot shows the 'Ozenda Wireless Network Properties' dialog box with the 'Security' tab selected. The 'Network Name (SSID)' is set to 'Ozenda'. Under 'Wireless Network Key', it states 'This network requires a key for the following:'. The 'Network Authentication' is set to 'OpenSystem' and 'Data Encryption' is set to 'WEP'. The 'Network Key' and 'Confirm Network Key' fields are masked with asterisks. The 'Key Index (advanced)' is set to '0'. At the bottom, there is a checkbox for 'This is an AD-HOC network; Pls. select desired channel' which is unchecked. Below this, the 'Channel' is set to '6' and the 'Frequency (MHZ)' is set to '2437MHZ'. 'OK' and 'Cancel' buttons are at the bottom right.

- Click on the desired profile, or click the **Connect** button to take effect.

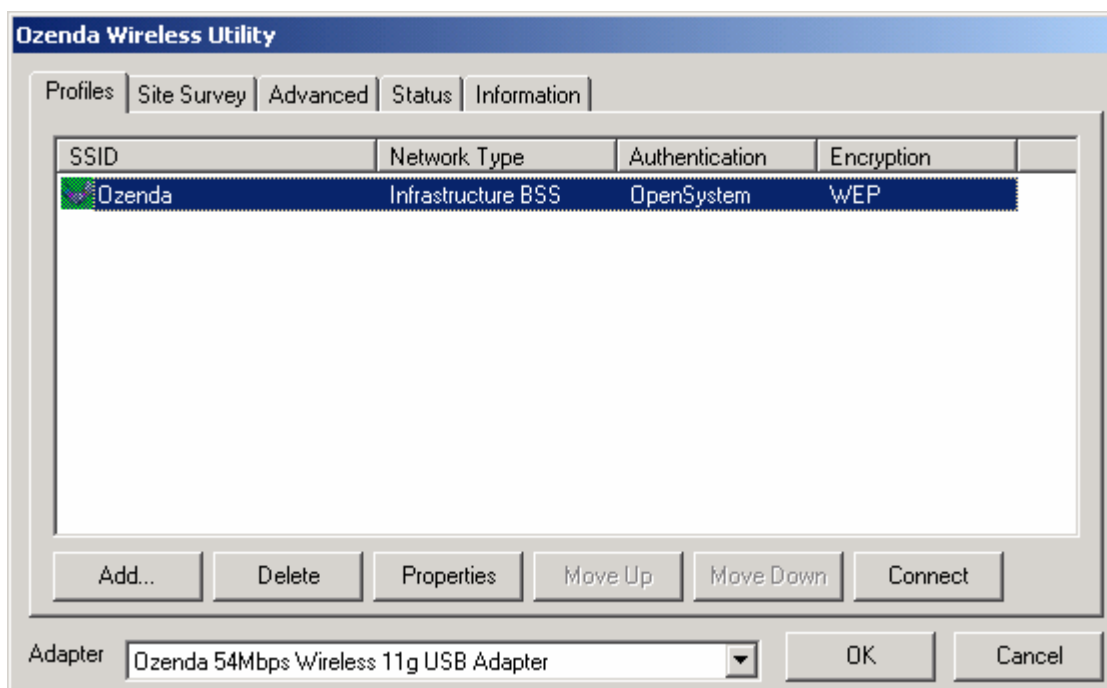
The screenshot shows the 'Ozenda Wireless Utility' window with the 'Profiles' tab selected. It displays a table of network profiles. The first profile is 'Ozenda' with 'Infrastructure BSS' network type, 'OpenSystem' authentication, and 'WEP' encryption. Below the table are buttons for 'Add...', 'Delete', 'Properties', 'Move Up', 'Move Down', and 'Connect'. The 'Connect' button is circled in red. At the bottom, the 'Adapter' is set to 'Ozenda 54Mbps Wireless 11g USB Adapter' and there are 'OK' and 'Cancel' buttons.

SSID	Network Type	Authentication	Encryption
Ozenda	Infrastructure BSS	OpenSystem	WEP

2-3 Configuration

- **Profile**

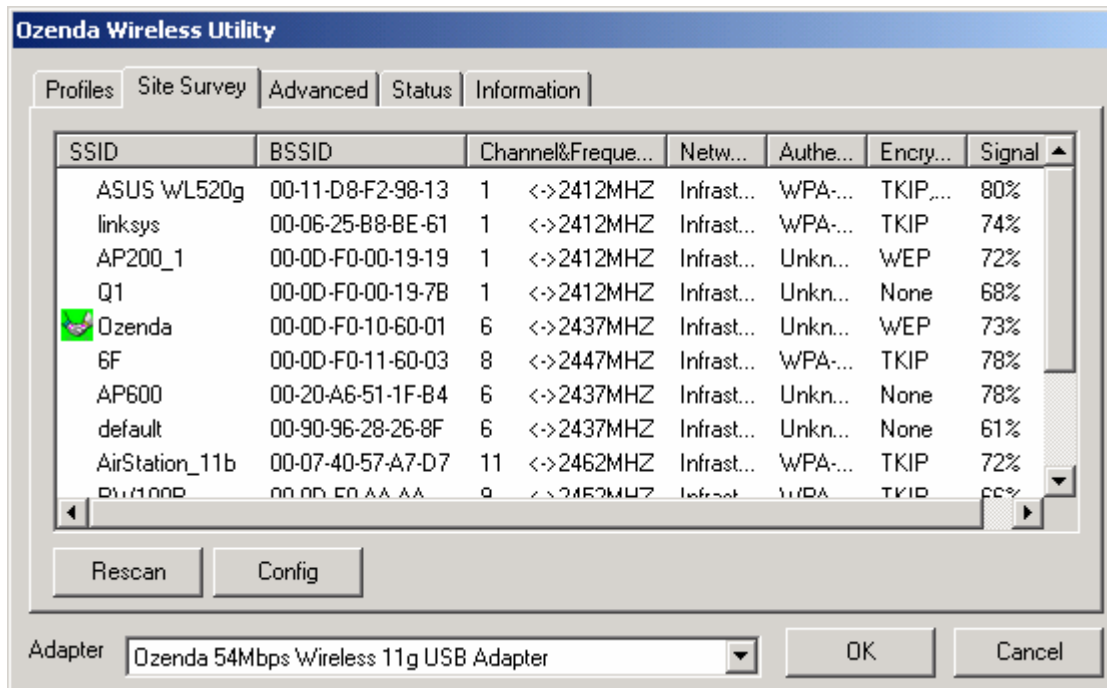
The **Profile Tab** allows you to set values for all parameters by selecting a previously defined profile. To create a profile, click **Add**, type a profile name and set the corresponding parameters. If one of the profiles is no longer used, you may remove it by clicking the **Delete** button. After changing parameters, click the **Connect** button to take effect. You can have multiple profiles and modify the profile at any time.



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Current Speed

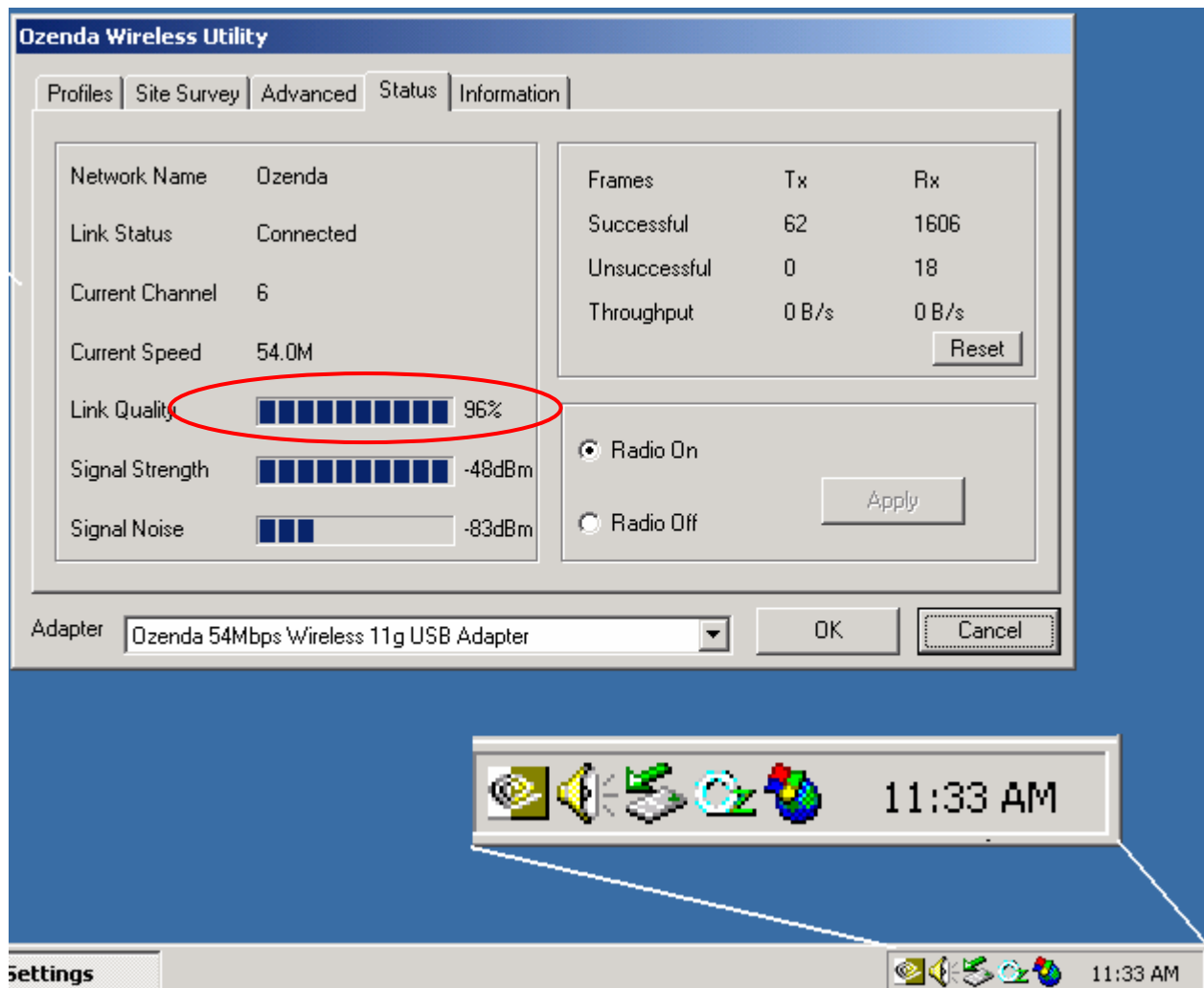
Shows the highest transmit rate of the current association.

Link Quality / Signal Strength

The Link Quality and Signal Strength bar graph is only active when the node is in Infrastructure Mode. The bar graph displays the quality and strength of the link between the node and its Access Point.

Signal Noise

This displays the noise level of the link between the node and its Access Point.



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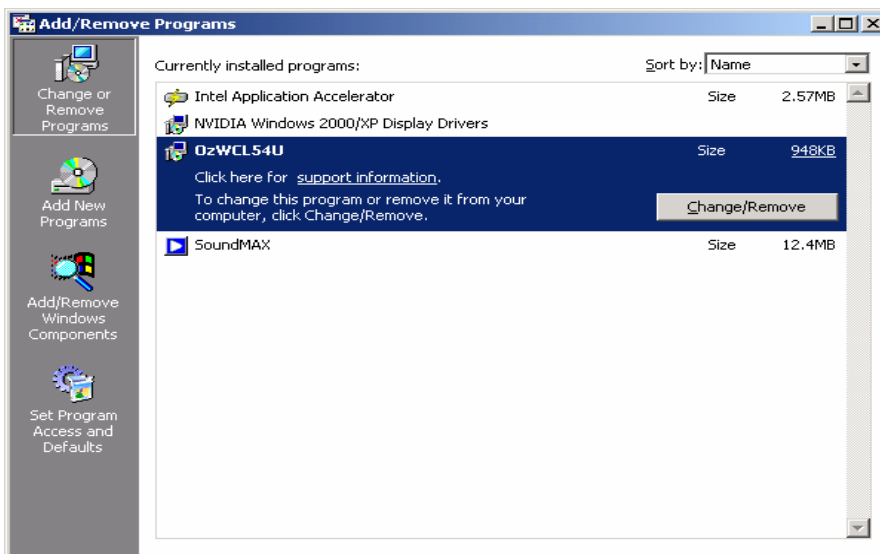


2-4 Uninstalling the Wireless Adapter Driver and Utility

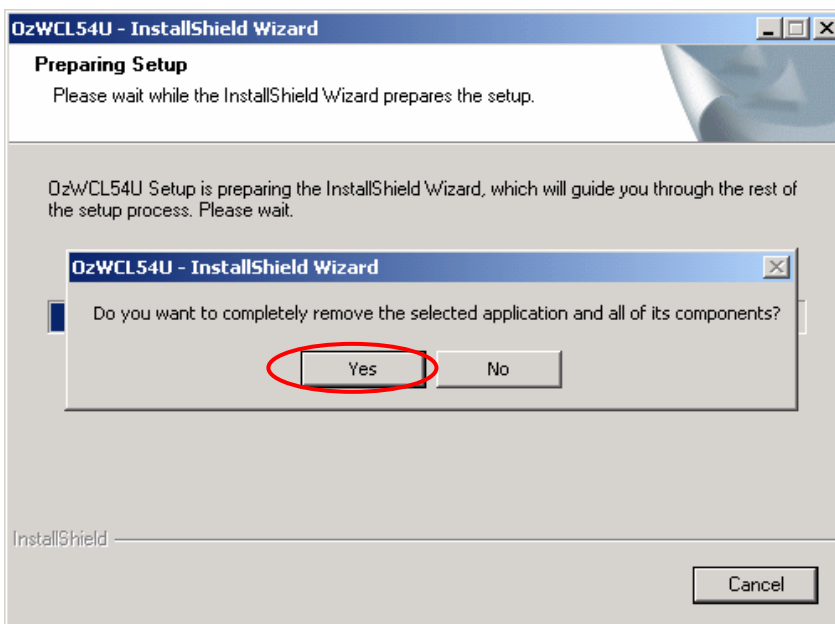
1. For uninstalling the Wireless Adapter, please go to: **Start->Settings->Control Panel->Add or Remove Programs->OzWCL54U** under Windows environment. Then click **Remove**.

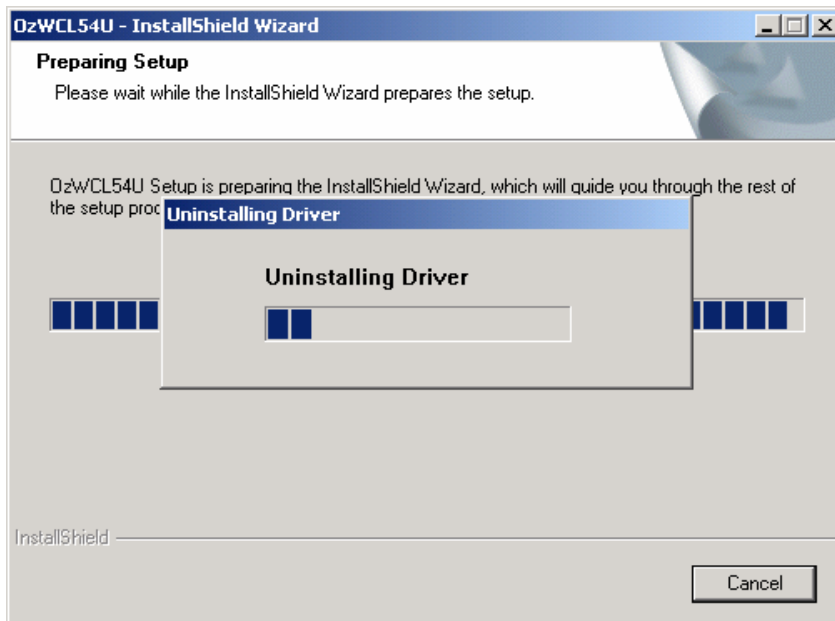


Add/Remove Programs

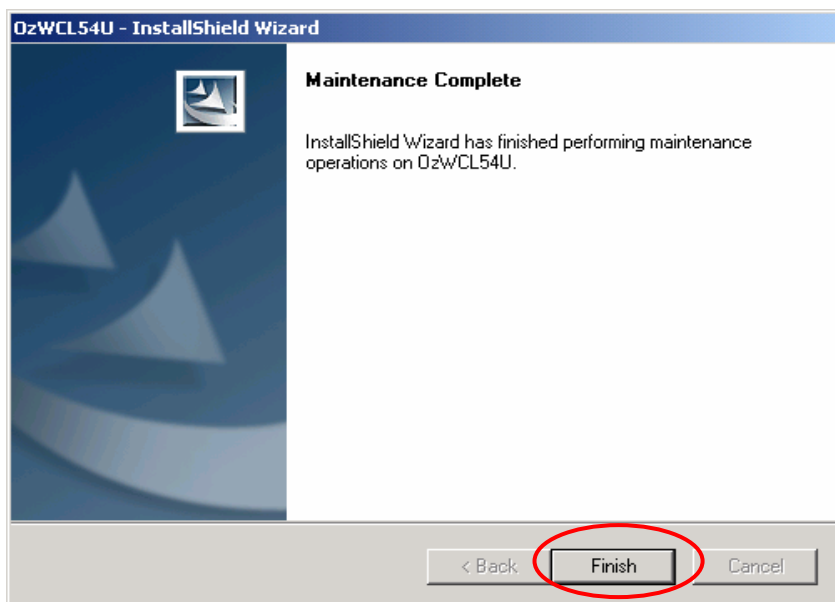


2. On the next screen, click **Yes** button to uninstalling driver.





3. Click **Finish** button.



4. The **USB Wireless Adapter** can now be safely removed from the system when the un-installation is done.

Trouble shooting

PING

This section discusses possible solutions using ping command to find your problem if you can't connect to the network.

1. Check if you have a valid IP address
2. Test if your TCP/IP works. Under MS-DOS (command prompt), type "ping local-host". If you didn't receive a reply, then you need to re-install your TCP/IP. Proceed to next step if you have received replies.
3. Using the same procedure, try to ping your Wireless Adapter's IP. If the Ping command fails, check the following:
 - Your WLAN is connected
 - Check that your driver is correctly installed.

Checking Valid IP Addresses

There are restrictions on which IP and addresses you can and cannot use. Some IP addresses are reserved for testing, multicasting and some IP are restricted by your ISP.

Following IP addresses **cannot** be used:

- **127.x.x.x** – this is a loop back address, used for testing
- **0.0.0.0** – this IP address represent the host address
- **255.255.255.255** – this is local broadcast address
- First portion of IP cannot exceed 224, that is, IP addresses which is in the range of 224~239.x.x.x is not valid. This range of IP is for multicasting. IP range from 240~255.x.x.x are reserved IP addresses and cannot be used.
- 0 or 255 in host ID portion of your IP are not valid. This represent local host or broadcast address for your class of IP

IP has five classes, namely class A, B, C, D and E. For each class, the host ID portion in the IP field is different for each of the classes. Figure below illustrate this.

Class A:	1 ~ 127	.		Host ID
Class B:	128 ~ 191	.	X	Host ID
Class C:	192 ~ 223	.	X	X
Class D:	224 ~ 239	.	Used for Multicasting (no Host ID)	
Class E:	240 ~ 255	.	Reserved IP address	

Host ID cannot be all 0's or all 255's.

Note: X denotes any value in the above example.

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.

"OZENDA declare that OzWCL54U is limited in CH1~CH11 by specified firmware controlled in USA."

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.

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

INFORMATION TO USER:

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.