ADSL Modem

User's Manual

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Chapter 1 Introduction

1.1 Introduction

『ADSL』is "Asymmetric Digital Subscriber Line", which mean is use the ADSL modem with telephone on same PSTN line at same time. The voice and data transmission will not be interference.

1.2 Front Panel LED Indicators

LED Indicator	**Color**	**Mode**	**Function**
USB	Red	Flash	USB initialize
		Off	USB detection finish
RX	Green	Flash	Receiving data over the ADSL link
		Off	Not receiving data over the ADSL link
Disc	Red	On	Hardware device error indicate
Link	Green	Off	ADSL link not established
		Flash	ADSL link is training
		On	The physical ADSL link through the RJ11 connector cable is established

1.3 Specifications

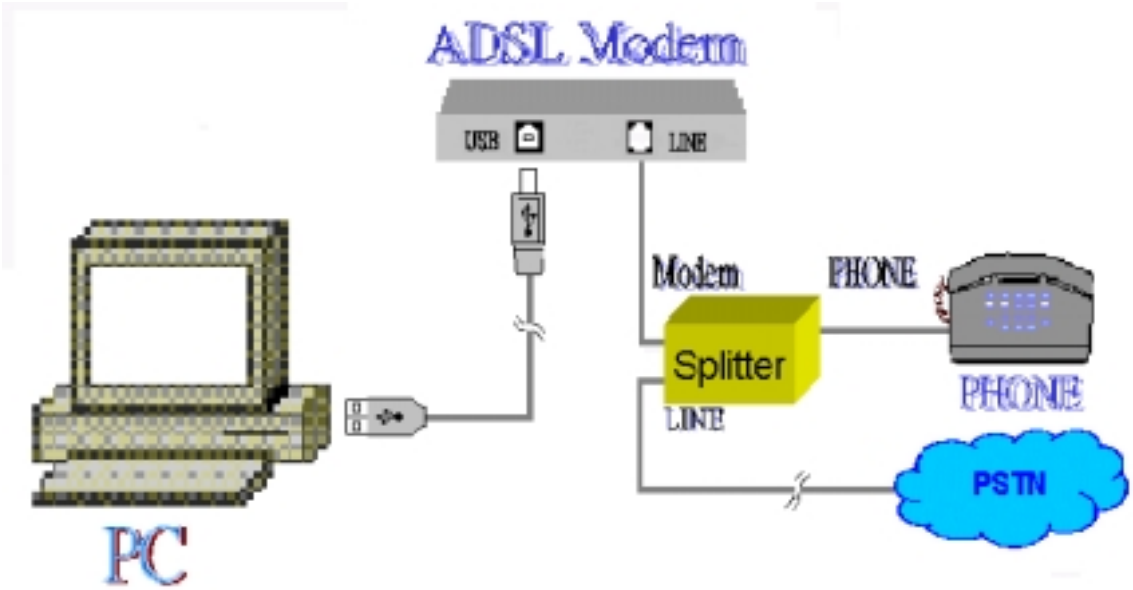
Specification Model Name:	**ADSL-USB-ALC**
Feature	● High-speed asymmetrical data transmission on single twisted copper pair wire. ● Programmable architecture facilitates quick and easy modem software upgrades via USB. ● Support fast and interleaved dual latency. ● Powered via USB host bus-less than 2.5 watts. ● ATM cell mode over ADSL to Central office side DSLAM. ● ATM support： - RFC 1483 Bridged IP over ATM. - RFC 2364 PPP over ATM/ - Supports PVC and SVC connection. ● Host software targeted for Win98SE / Win2000 / Win ME / Win XP implementation with installation software, NDIS 5.0 miniport driver.
Performance	● Downstream data rates form 65Kbps up to 8Mbps. ● Upstream from 64Kbps up to 1 Mbps with auto rate-adaptive in step 32Kbps. ● Line reach up to 18000 feet with 26AWG.（Noise free）.
Hardware Specification：	
Bus Interface：	● Complies with USB 1.1 specification. ● connector：USB B Type.
Power Requirements：	● Support for USB bus powered operation for full DMT.
ADSL Standards Compliant：	● ITU-T G.992.1（G.dmt）. ● G.992.2（G.lite） ● ANSI T1.413 issue 2 Annex A, Annex B,C for future. ● Connector：RJ-11（Pin3,4） ● Chipset：Alcatel Microelectronics.
Environment：	● Operating temperature：0 C to 40℃. ● Non-operating storage temperature：-10℃ to 85℃. ● Operating humidity：10% to 90%. ● Non-operating storage humidity：5% to 95%.
Regulatory Requirements：	● CE, FCC Part 68 ● UL / CUL ● CB ● LVD
Visual LED indicates network status.	
Available POTS Splitters：External stand-alone.（option）	

Chapter 2 Hardware Installation

Installing ADSL USB Modem

1. Plug one end of the ADSL cable to RJ-11 jack on the back of ADSL USB Modem and the other end to LINE jack on the Splitter Modem jack.
2. Plug one end of the **USB** line to the **ADSL USB Modem** and the other end to the computer.

Installing Diagram



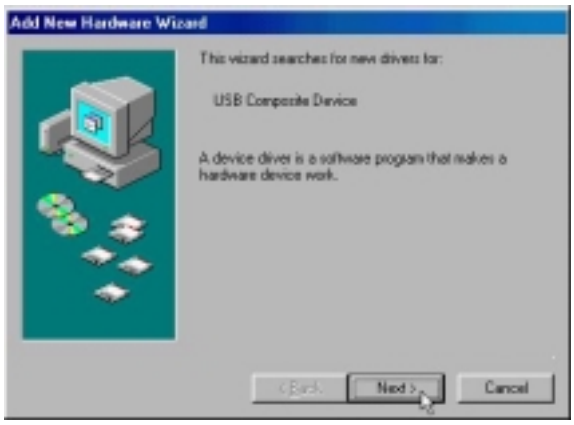
Chapter 3 Driver Installation

3.1. MS Windows 98

3.1.1 MPoA (RFC1483)

3.1.1.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Composite Device*** appearing on the screen, then click ***Next***.



2. Select ***Search for the best driver for your device. [Recommended]*** and click ***Next***.

3. Select ***Specify a location*** and type in the path of CD-ROM drive (for example H:\Driver), click ***Next***.

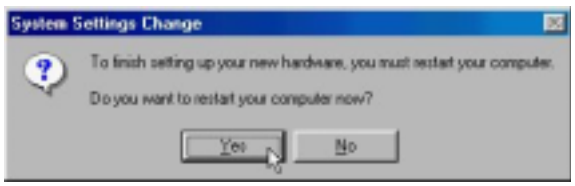
4. Select ***The updated driver (Recommend)***, click ***Next***.

5. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

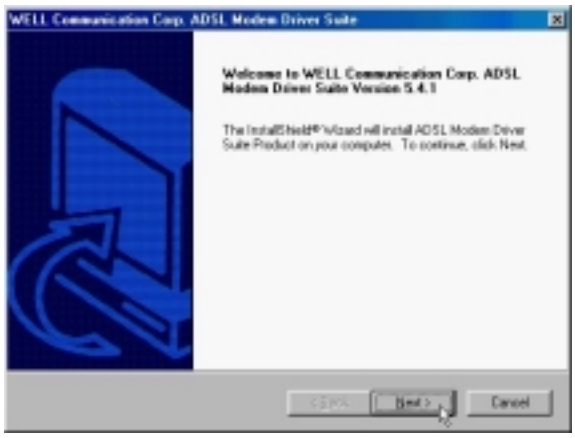
6. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

7. The installation has been done, click ***Finish***.

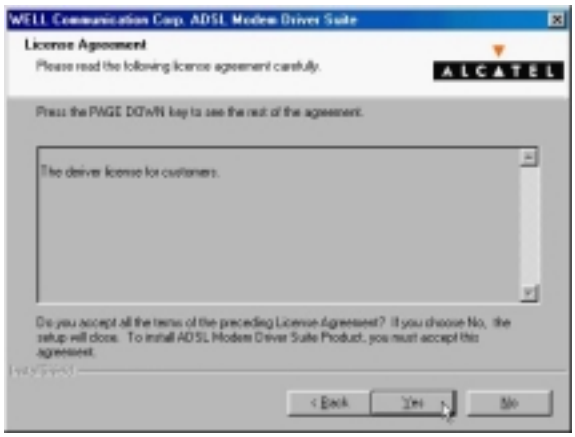
8. Click ***Yes*** to restart computer.



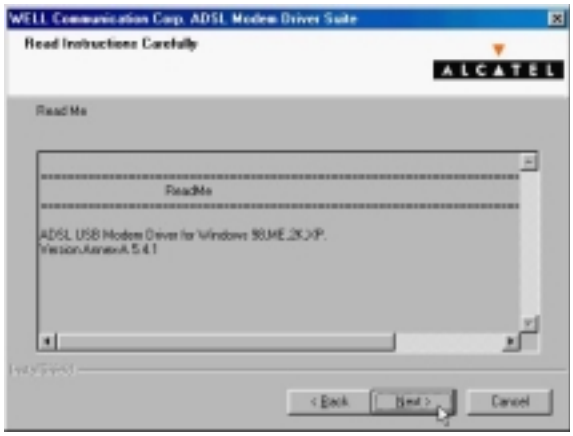
9. Click ***Next***.



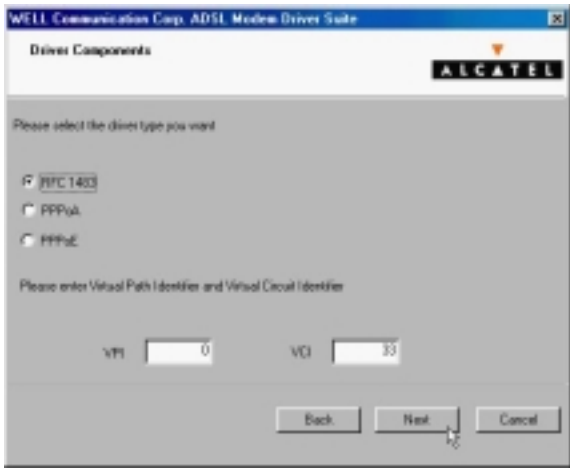
10. Click ***Yes***.



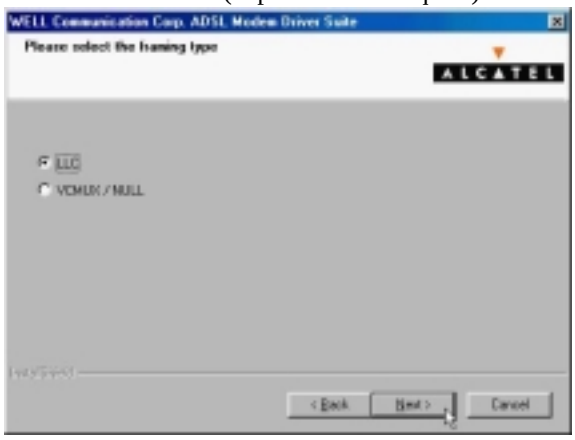
11. Click ***Next***.



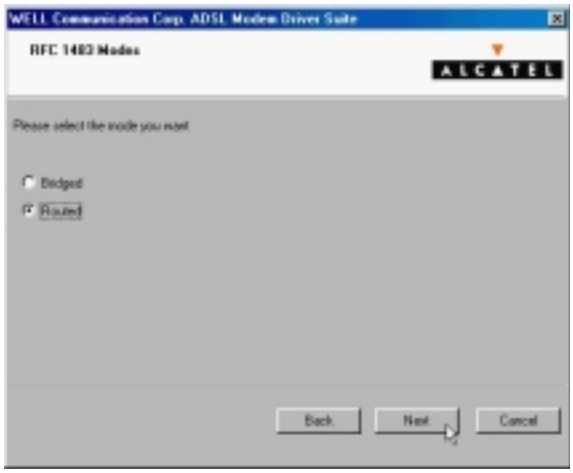
12. Select ***RFC1483*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



13. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.

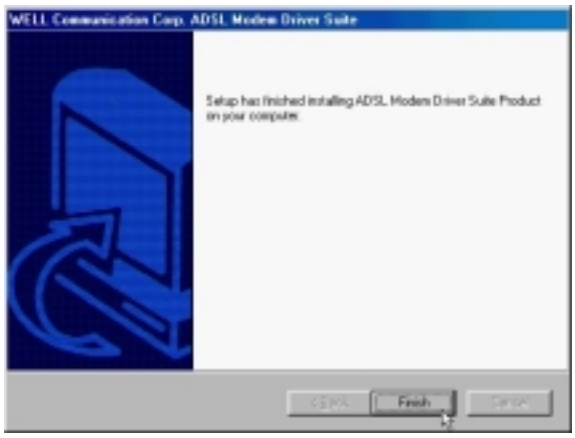


14. Select ***Bridged*** or ***Routed*** (depend on ISP request) and click ***Next***.

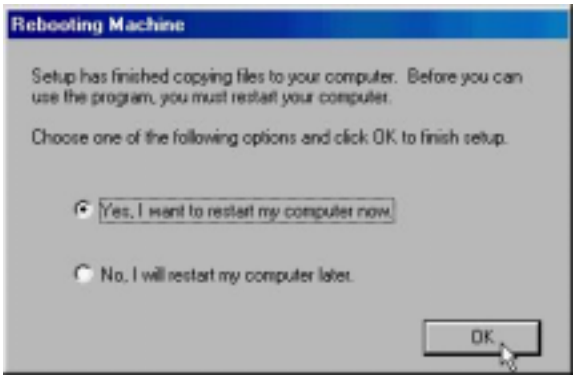


15. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

16. Click ***Finish***.

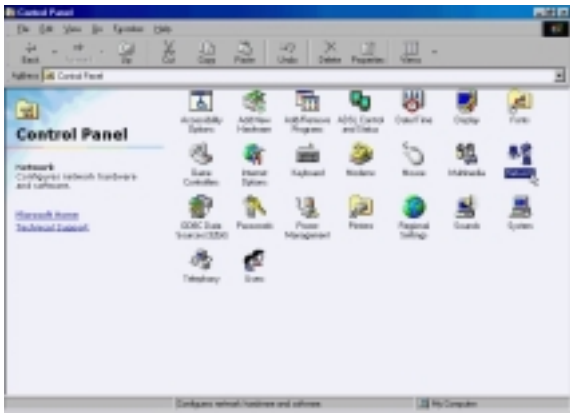


17. Select ***Yes, I want to restart my computer now*** and click ***OK***.

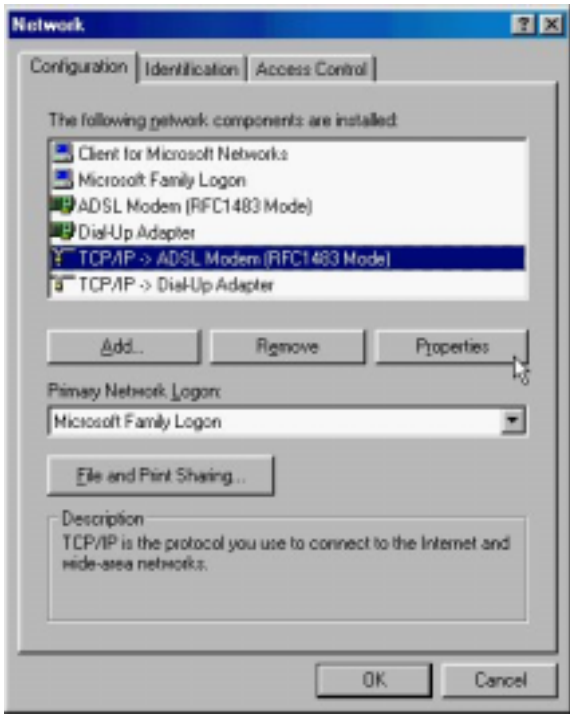


3.1.1.2 Setting IP, Subnet Mask, Gateway, DNS

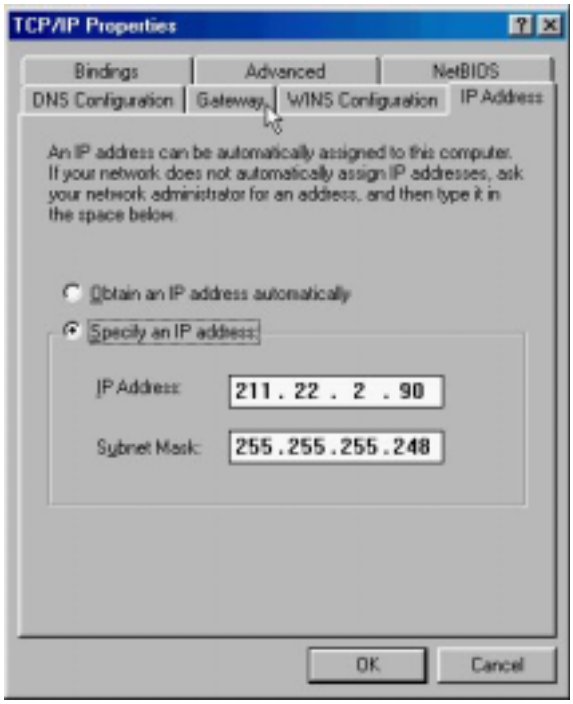
1. Move your cursor as following sequence ***Start \ Settings \ Control Panel*** and click ***Control Panel***. Then double-click on the ***Network***.



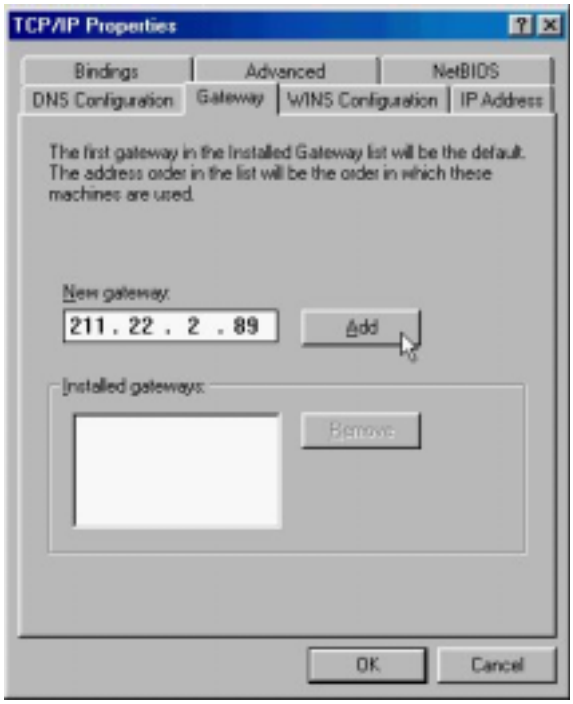
2. Select the ***TCP/IP→ADSL Modem (REF1483Mode)*** and click ***Properties***.



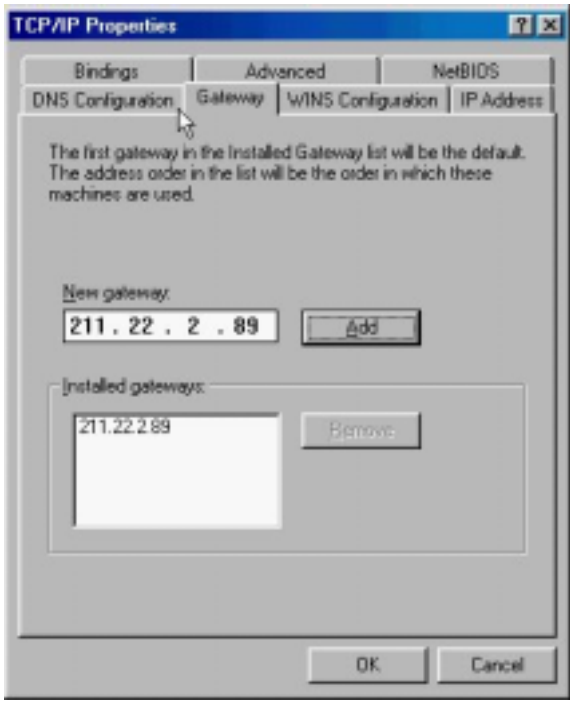
3. Select ***Specify an IP address*** and setting ***IP Address, Subnet Mask*** and click ***Gateway***.



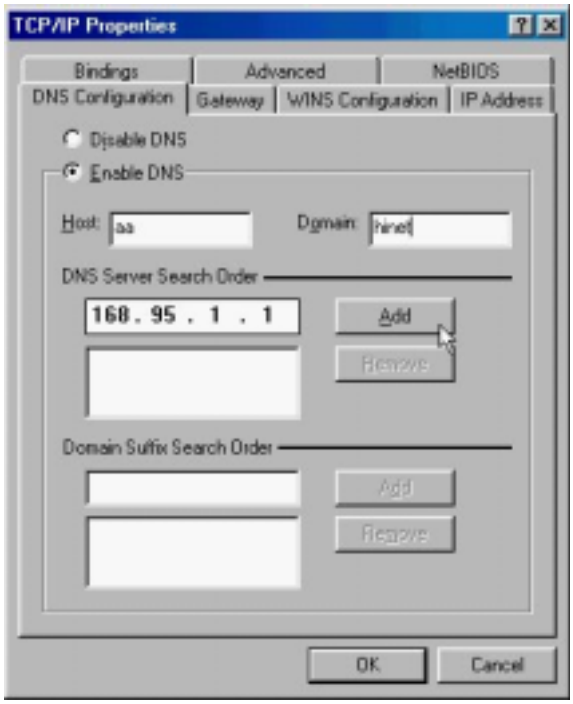
4. Setting ***New gateway*** and click ***Add.***



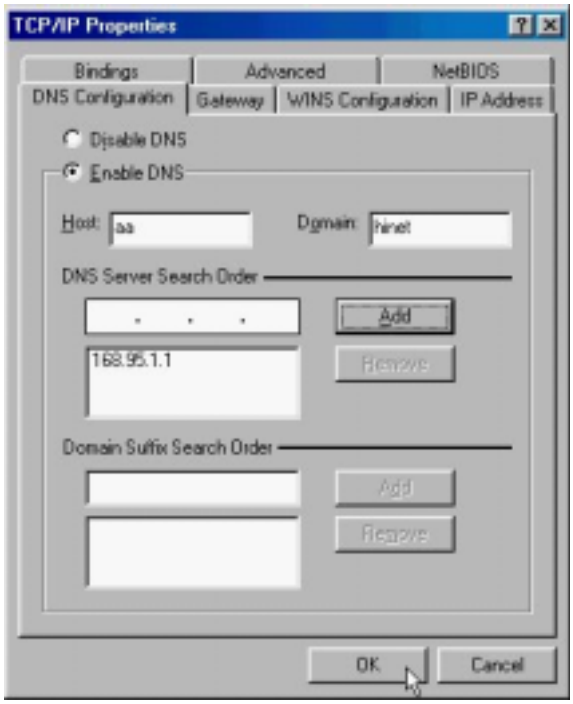
5. Click ***DNS Configuration***.



6. Select ***Enable DNS*** and setting ***Host, Domain, DNS Server Search Order*** and click ***Add***.

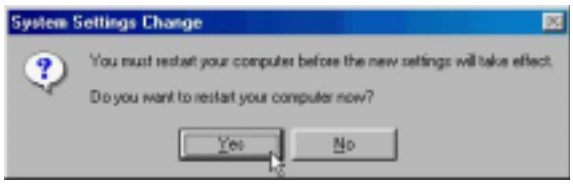


7. Click ***OK***.



8. Click ***OK***.

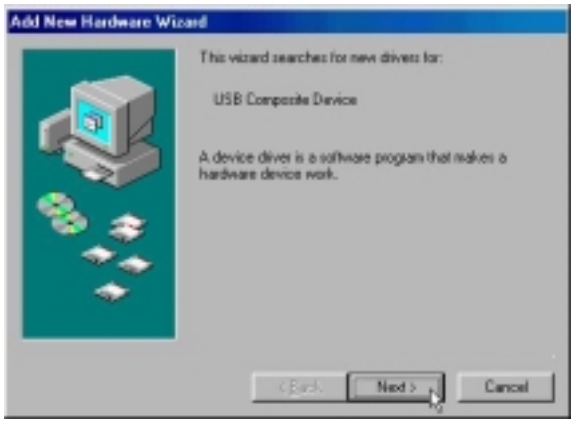
9. Click ***Yes*** to restart computer.



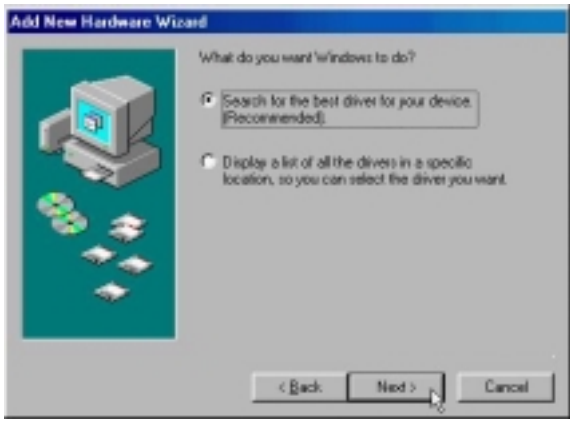
3.1.2 PPPoE

3.1.2.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Composite Device*** appearing on the screen, then click ***Next.***



2. Select ***Search for the best driver for your device. [Recommended]*** and click ***Next***.



3. Select ***Specify a location*** and type in the path of CD-ROM drive (for example H:\Driver), click ***Next***.

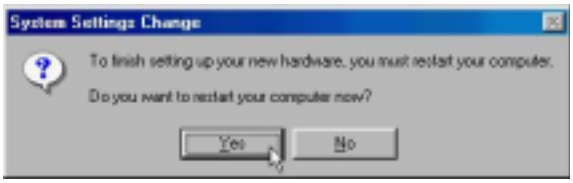
4. Select ***The updated driver (Recommend)***, click ***Next***.

5. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

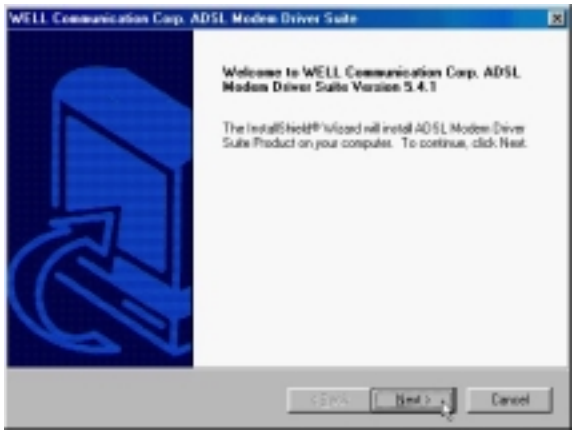
6. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

7. The installation has been done, click ***Finish***.

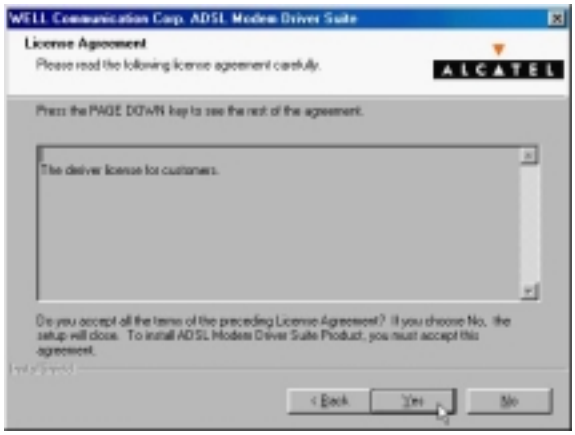
8. Click ***Yes*** to restart computer.



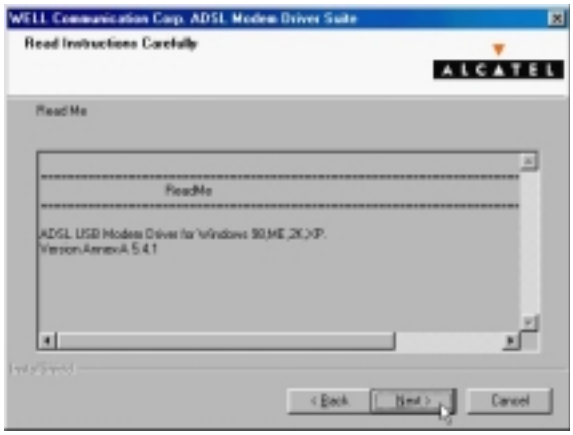
9. Click ***Next***.



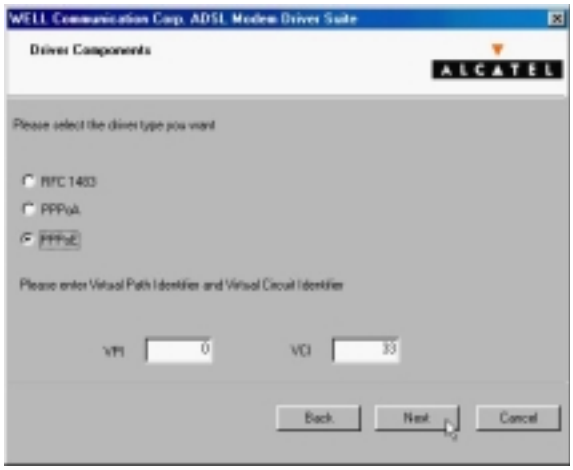
10. Click ***Yes***.



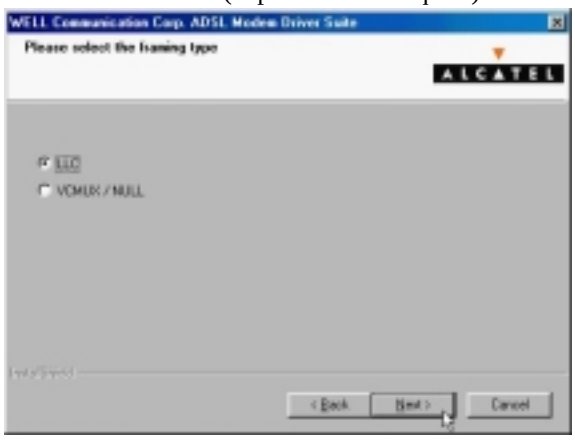
11. Click ***Next***.



12. Select ***PPPoE*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.

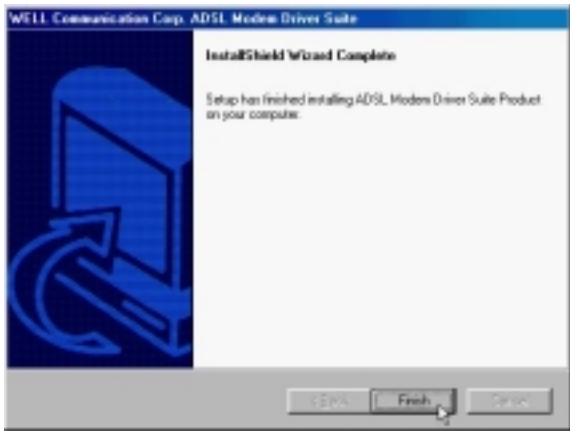


13. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.

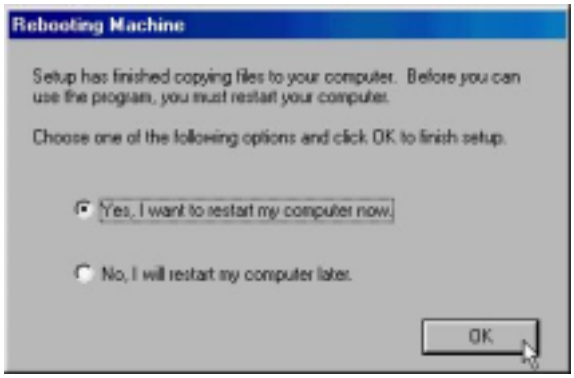


14. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

15. Click ***Finish***.



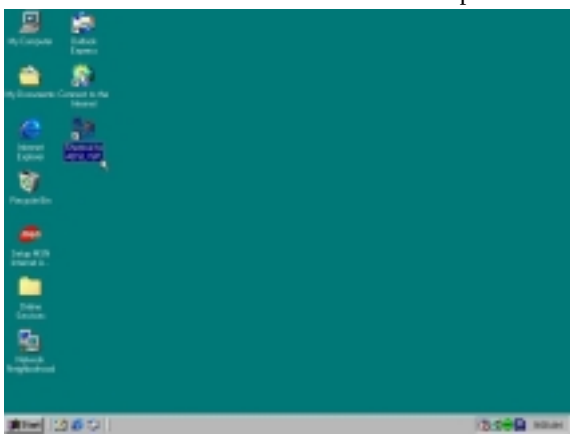
16. Select ***Yes, I want to restart my computer now*** and click ***OK***.



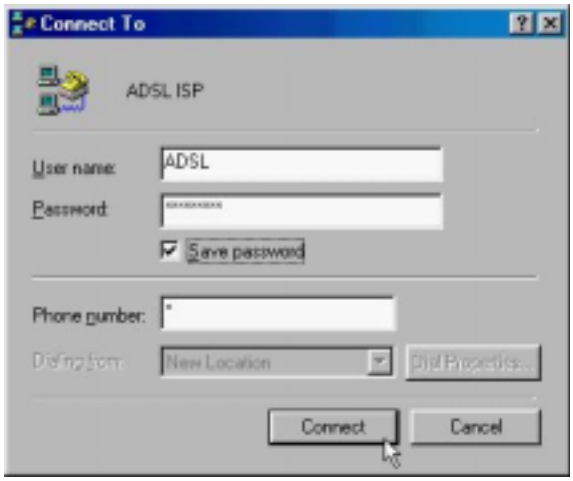
3.1.2.2 Connect and Disconnect

3.1.2.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

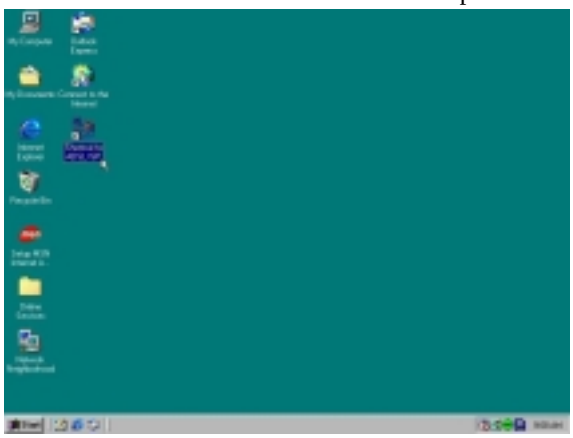


2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

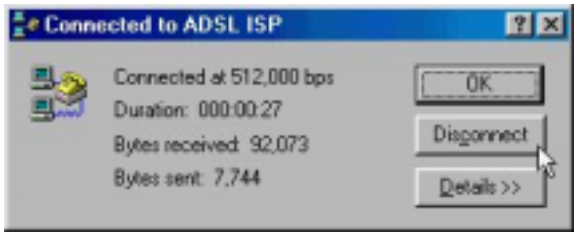


3.1.2.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



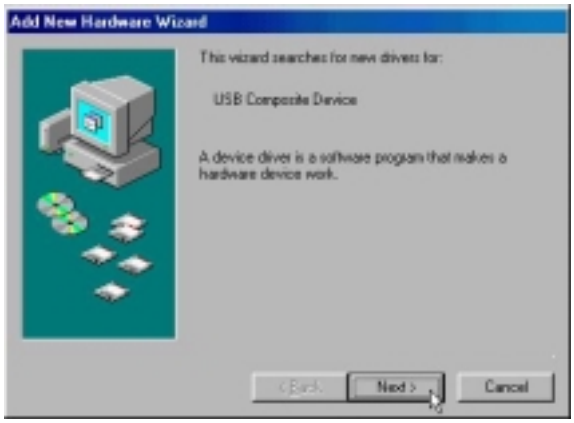
2. Click ***Disconnect*** end connect.



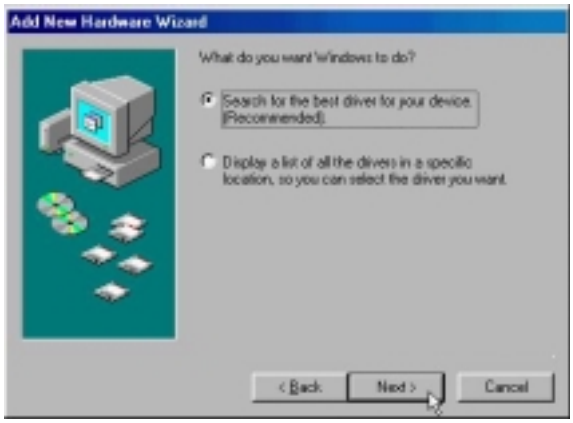
3.1.3 PPPoA

3.1.3.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Composite Device*** appearing on the screen, then click ***Next***.



2. Select ***Search for the best driver for your device. [Recommended]*** and Click ***Next***.



3. Select ***Specify a location*** and type in the path of CD-ROM drive (for example H:\Driver), click ***Next***.

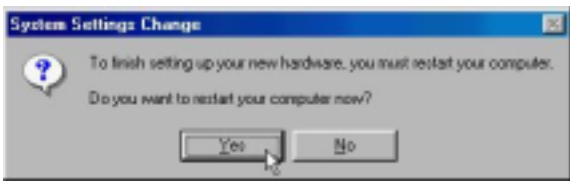
4. Select ***The updated driver (Recommend)***, click ***Next***.

5. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

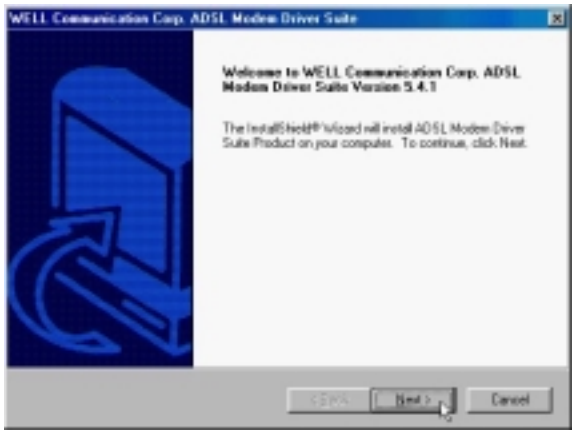
6. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

7. The installation has been done, click ***Finish***.

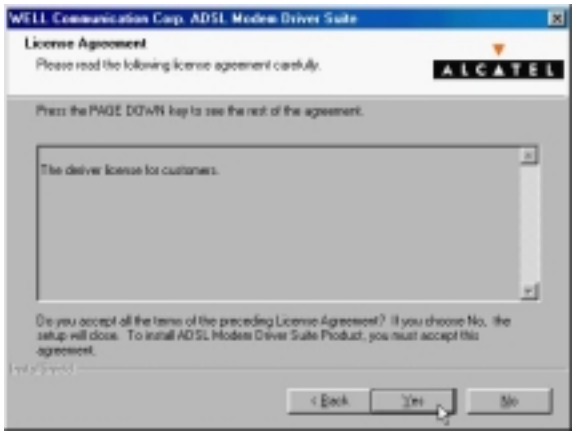
8. Click ***Yes*** to restart computer.



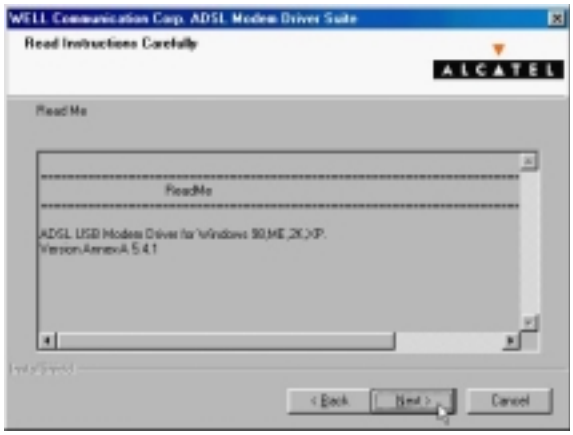
9. Click ***Next***.



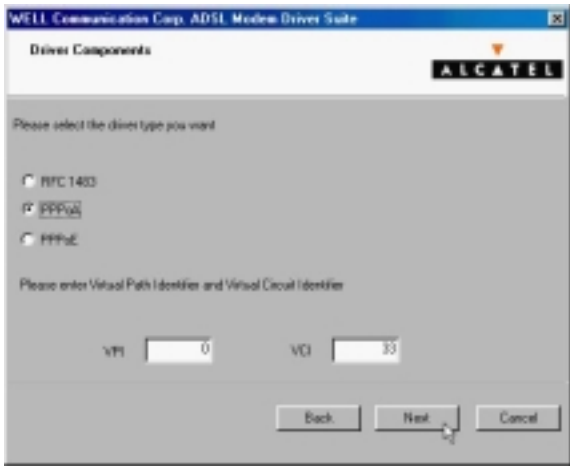
10. Click ***Yes***.



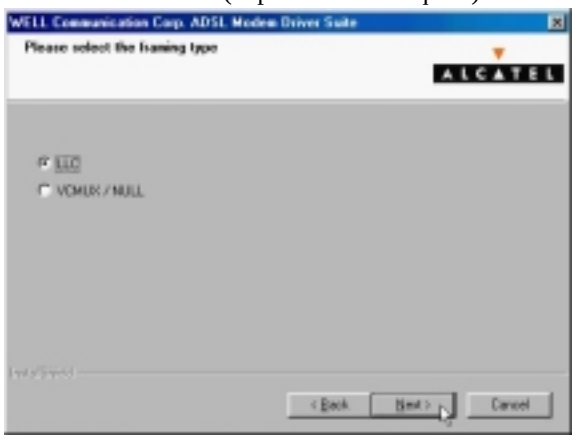
11. Click ***Next***.



12. Select ***PPPoA*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.

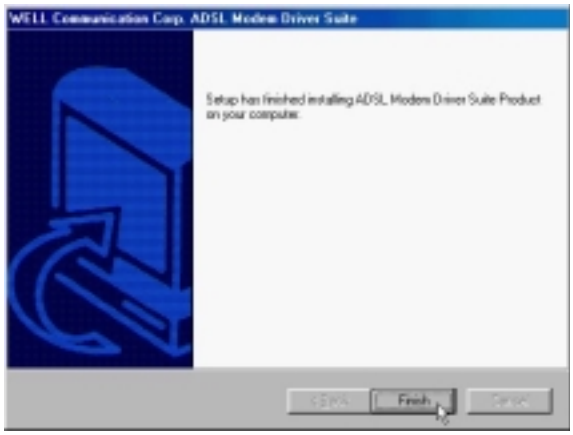


13. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.

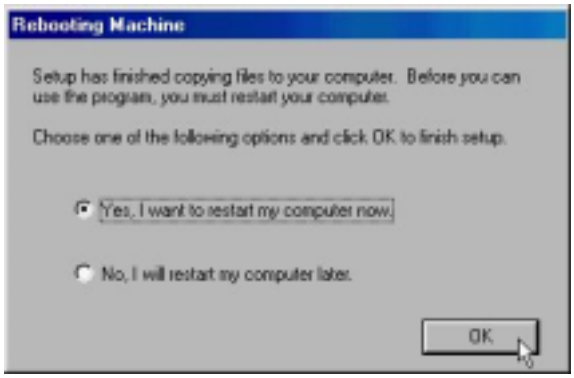


14. Insert the Windows 98 CD-ROM to your CD-ROM drive and click ***OK***.

15. Click ***Finish***.



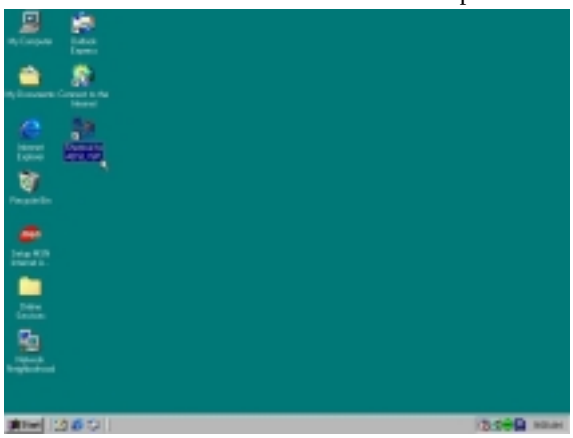
16. Select ***Yes, I want to restart my computer now*** and click ***OK***.



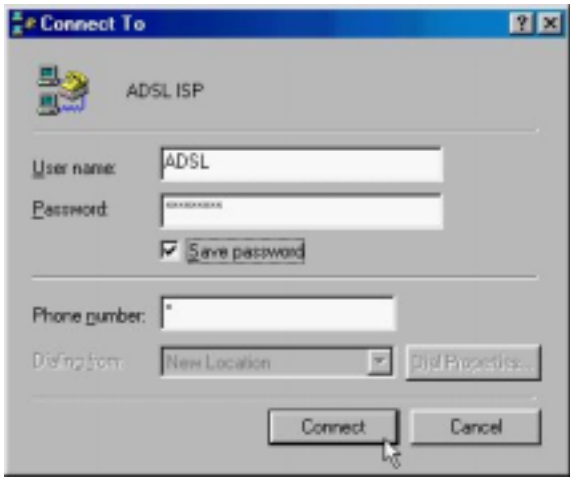
3.1.3.2 Connect and Disconnect

3.1.3.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

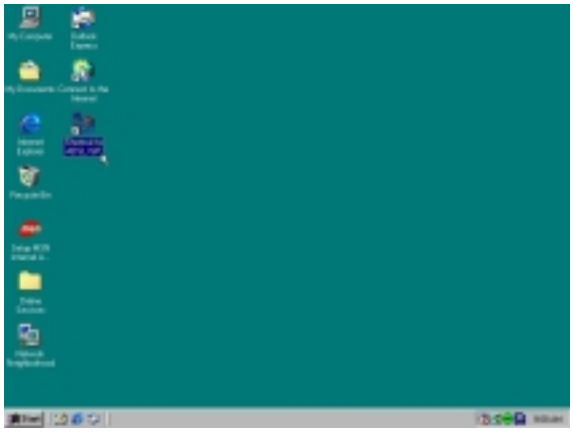


2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

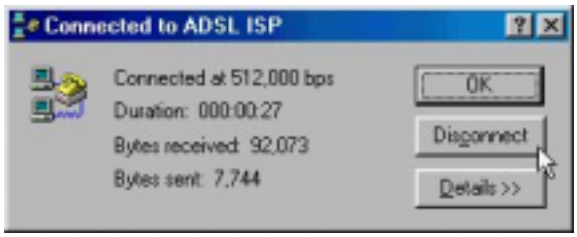


3.1.3.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



2. Click ***Disconnect*** end connect.

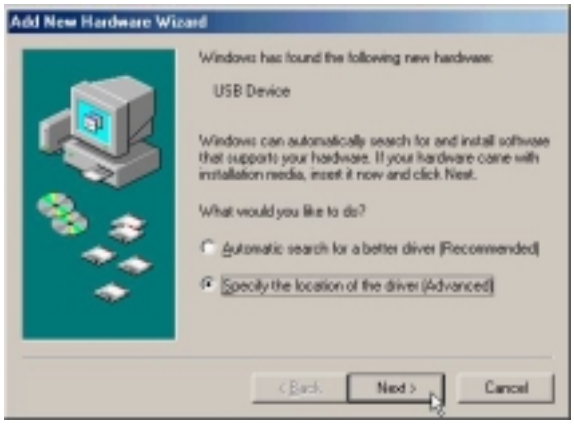


3.2. MS Windows ME

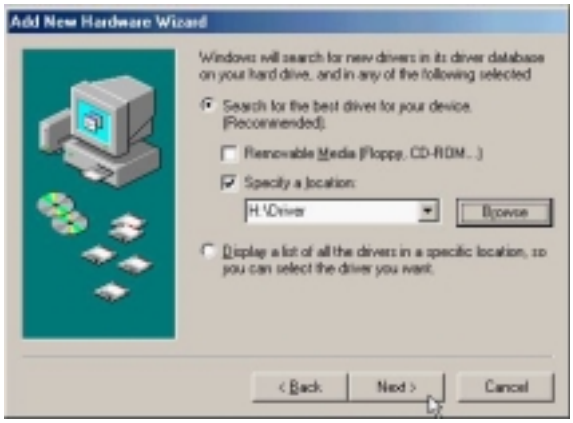
3.2.1 MPoA (RFC1483)

3.2.1.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Device*** appearing on the screen, select ***Specify the location of the driver (advanced)***, then click ***Next***.



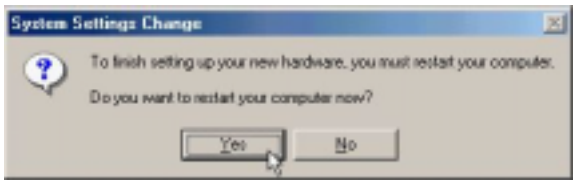
2. Select ***Search for the best driver for your device. [Recommended]*** and check ***Specify a location***, then type in the path of CD-ROM drive (for example H:\Driver) and click ***Next***.



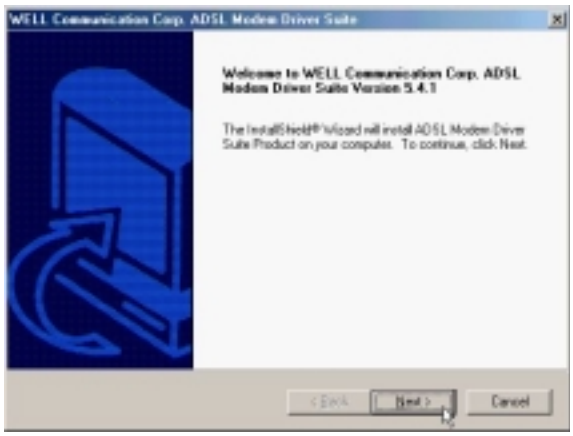
3. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

4. The installation has been done, click ***Finish***.

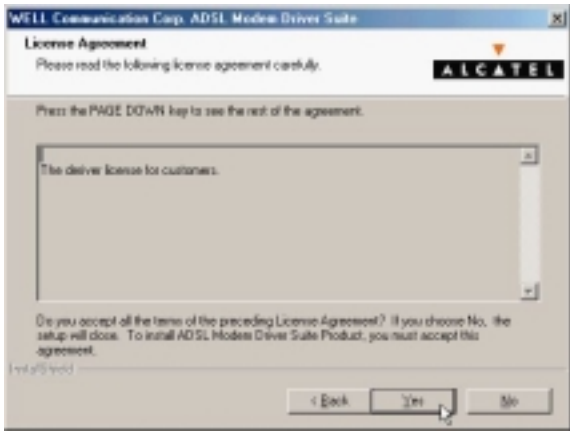
5. Click ***Yes*** to restart computer.



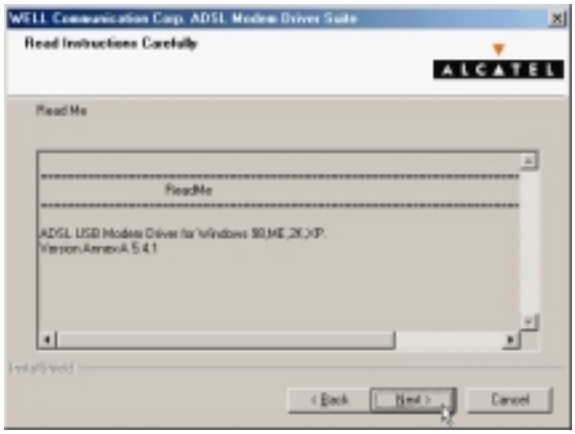
6. Click ***Next***.



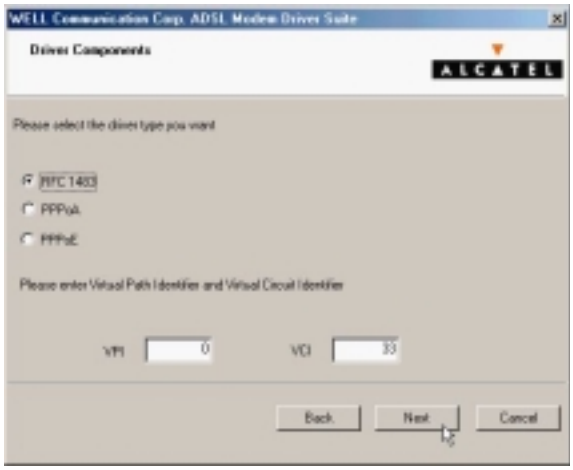
7. Click ***Yes***.



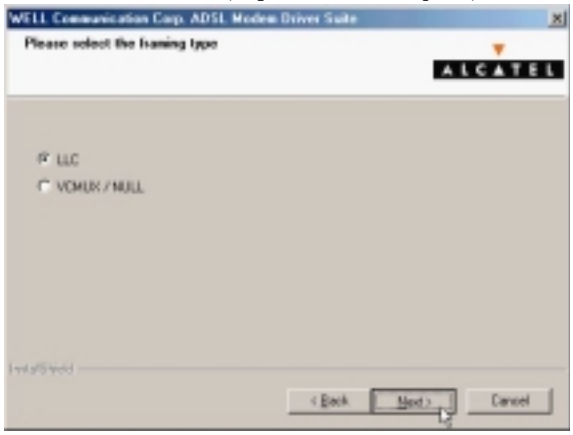
8. Click ***Next***.



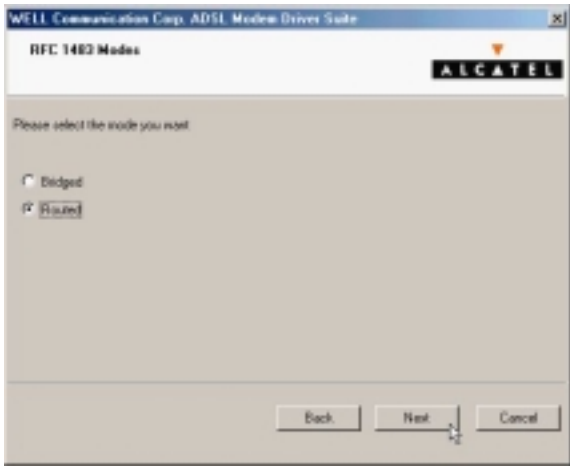
9. Select ***RFC1483*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



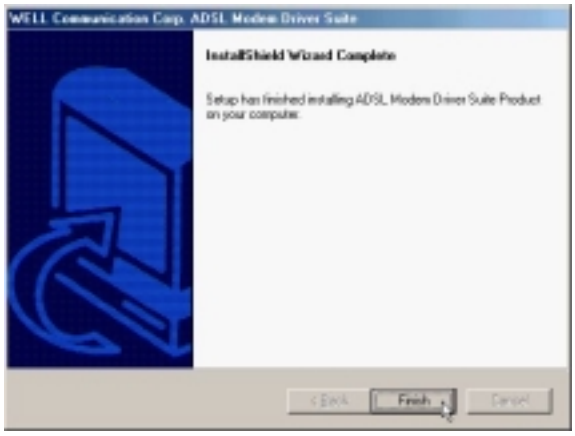
10. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



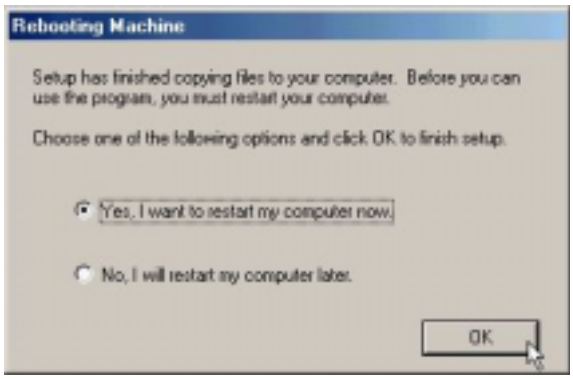
11. Select ***Bridged*** or ***Routed*** (depend on ISP request) and click ***Next***.



12. Click ***Finish***.

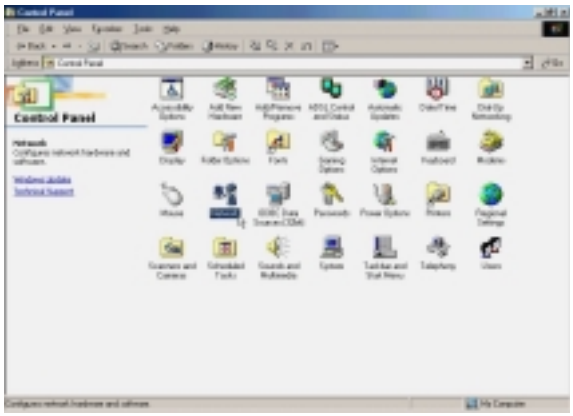


13. Select ***Yes, I want to restart my computer now*** and click ***OK***.

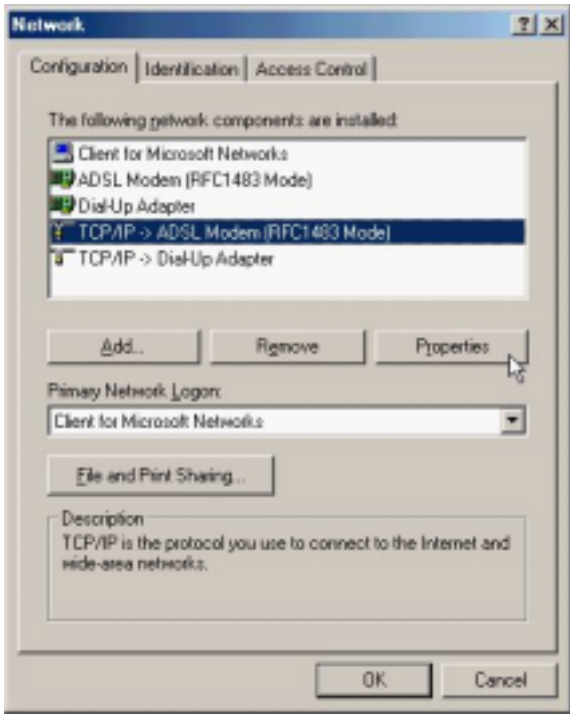


3.2.1.2 Setting IP, Subnet Mask, Gateway, DNS

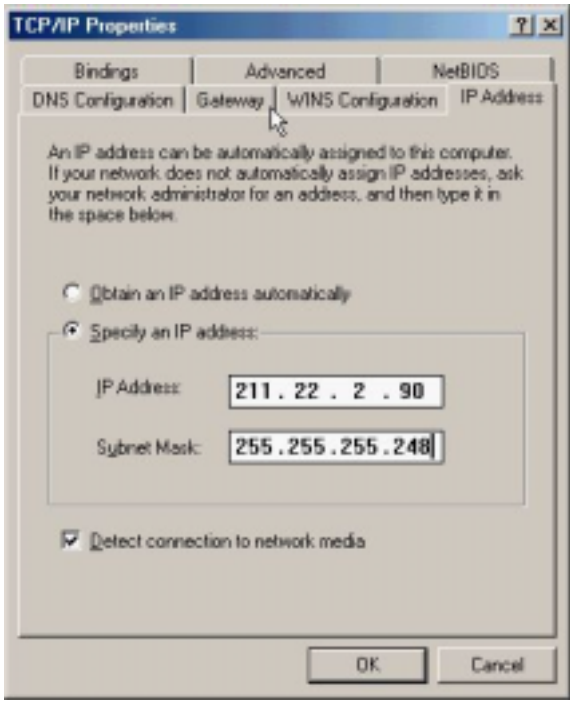
1. Move your cursor as following sequence ***Start \ Settings \ Control Panel*** and click ***Control Panel***. Then double-click on the ***Network***.



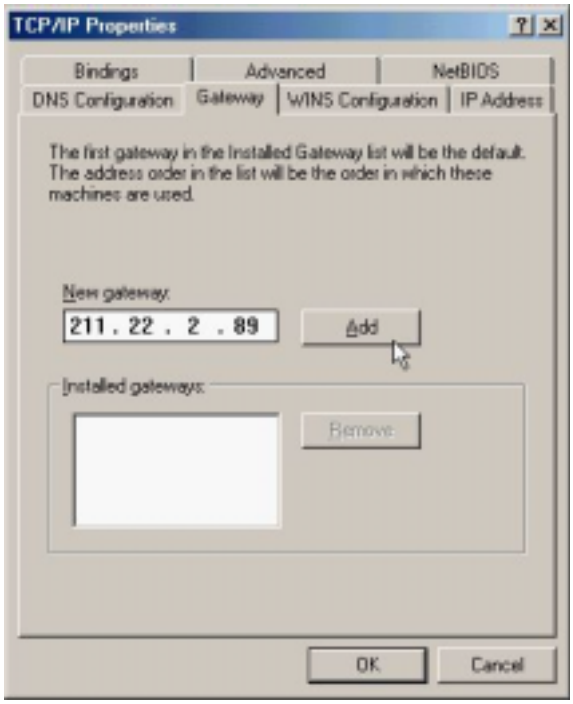
2. Select the ***TCP/IP→ADSL Modem (REF1483Mode)***and click ***Properties***.



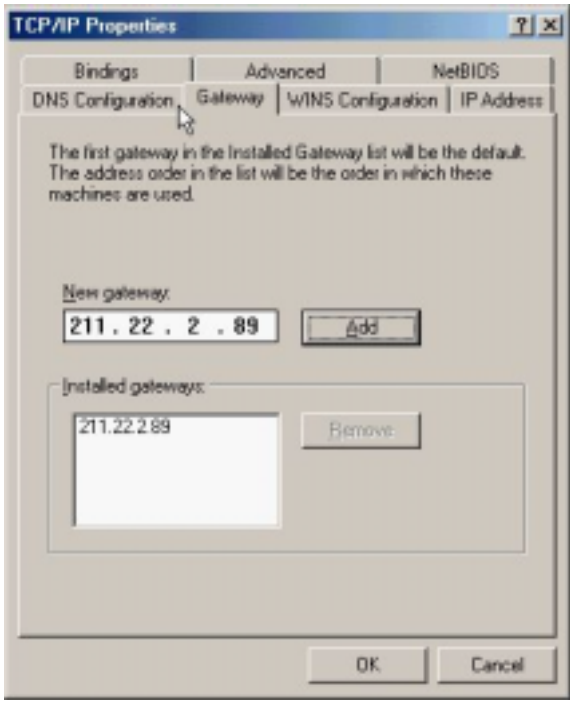
3. Select ***Specify an IP address*** and setting ***IP Address, Subnet Mask*** and click ***Gateway***.



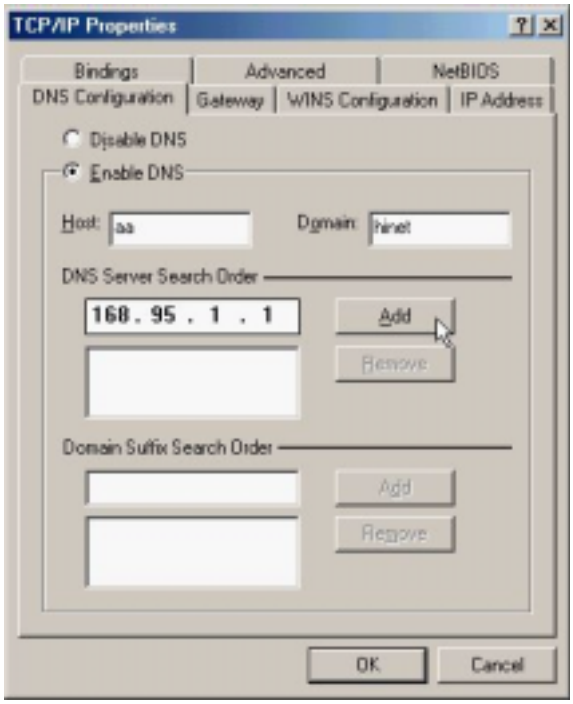
4. Setting ***New gateway*** and click ***Add***.



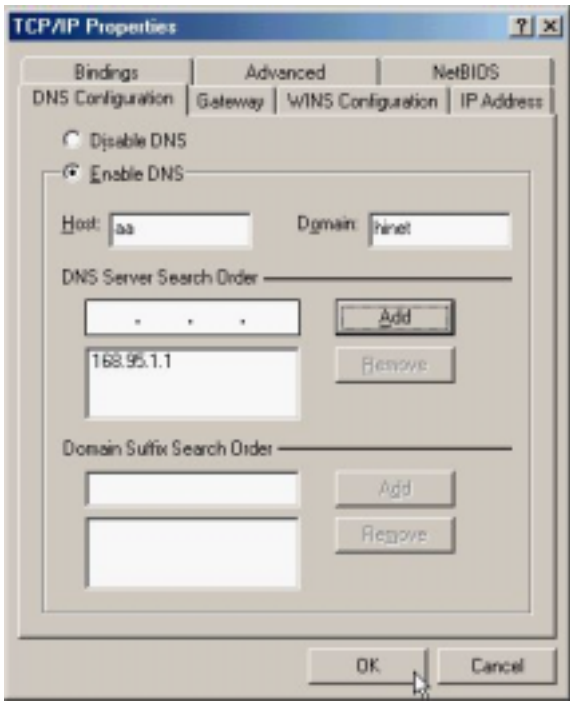
5. Click ***DNS Configuration***.



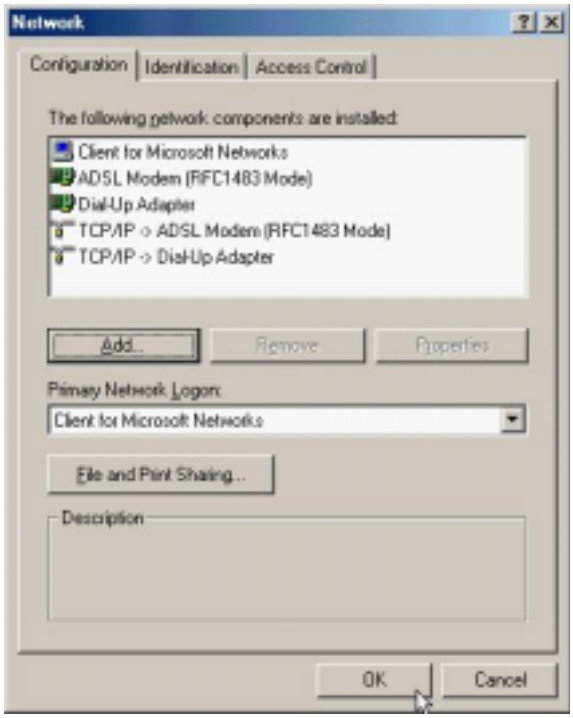
6. Select ***Enable DNS*** and setting ***Host, Domain, DNS Server Search Order*** and click ***Add***.



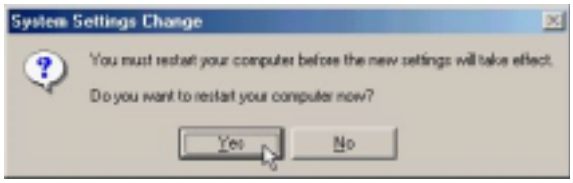
7. Click ***OK***.



8. Click ***OK***.



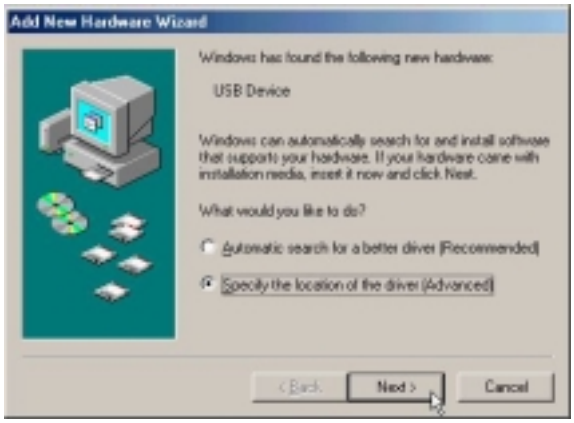
9. Click ***Yes*** to restart computer.



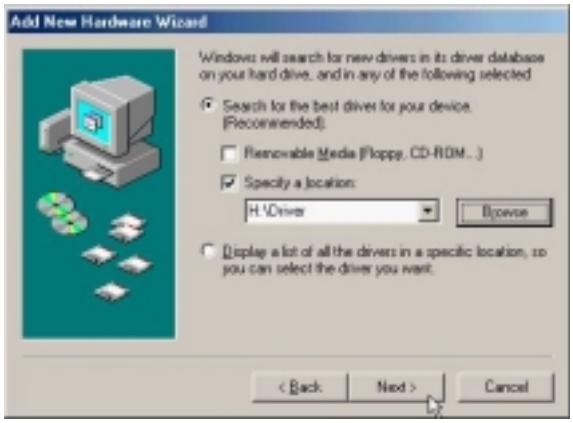
3.2.2 PPPoE

3.2.2.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Device*** appearing on the screen, select ***Specify the location of the driver (advanced)***, then click ***Next***.



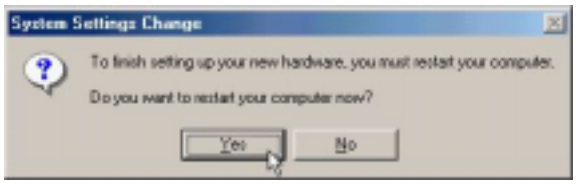
2. Select ***Search for the best driver for your device. [Recommended]*** and check ***Specify a location***, then type in the path of CD-ROM drive (for example H:\Driver) and click ***Next***.



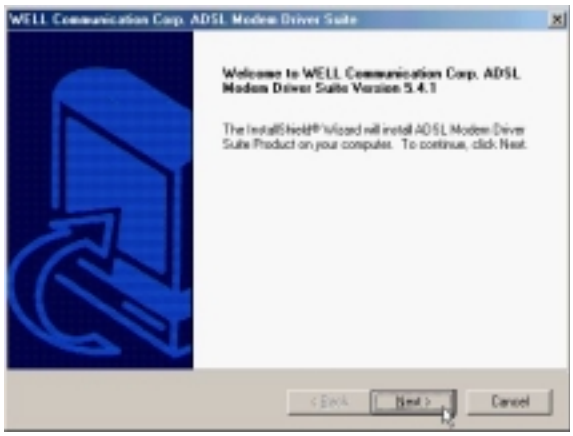
3. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

4. The installation has been done, click ***Finish***.

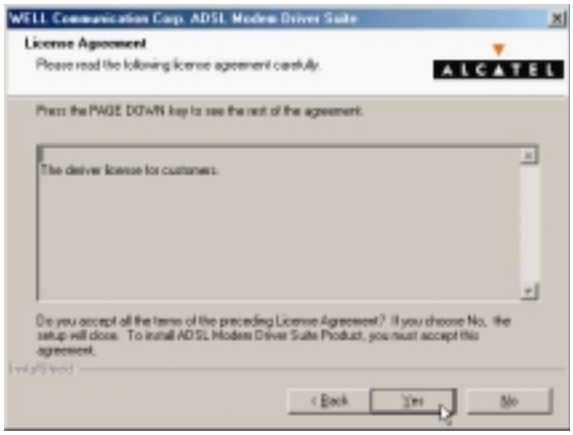
5. Click ***Yes*** to restart computer.



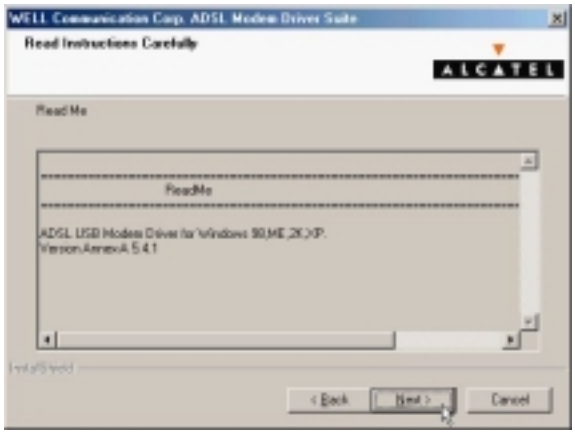
6. Click ***Next***.



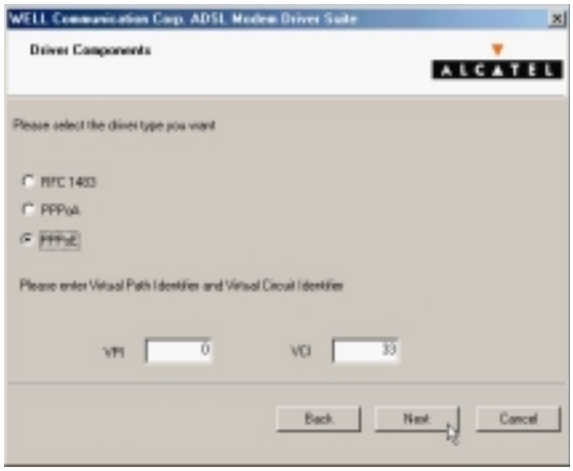
7. Click ***Yes***.



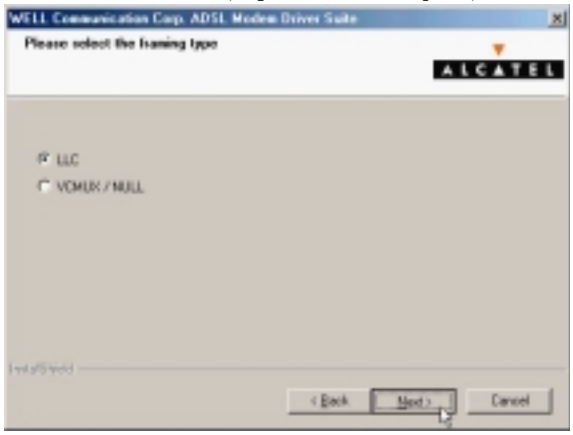
8. Click ***Next.***



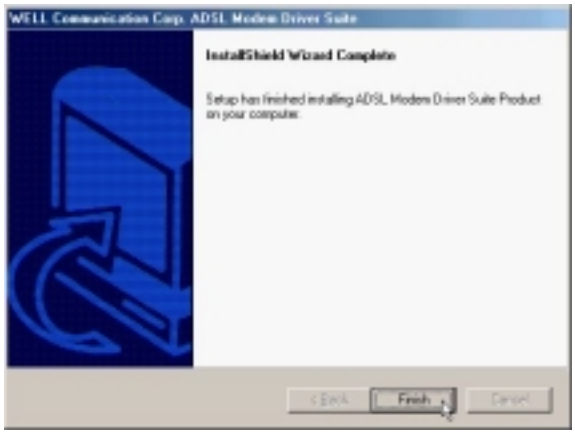
9. Select ***PPPoE*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next.***



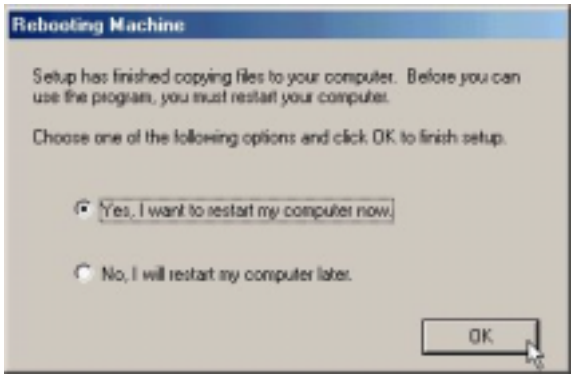
10. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next.***



11. Click ***Finish***.



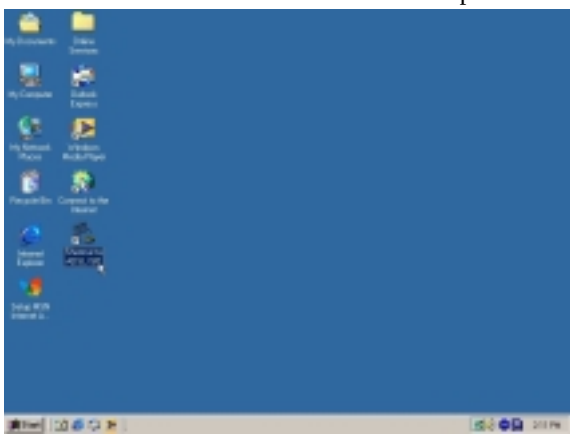
12. Select ***Yes , I want to restart my computer now*** and click ***OK***.



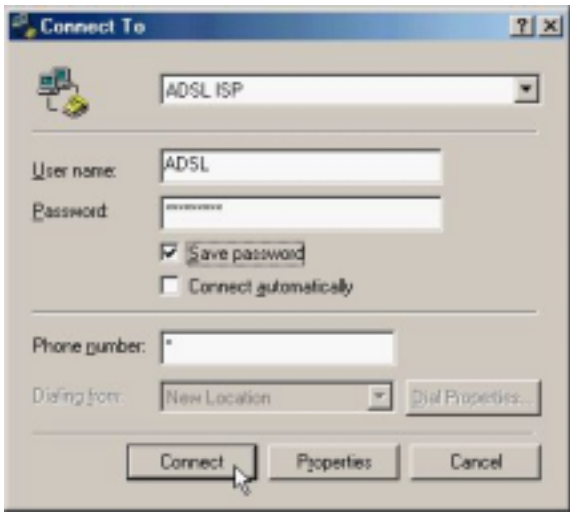
3.2.2.2 Connect and Disconnect

3.2.2.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

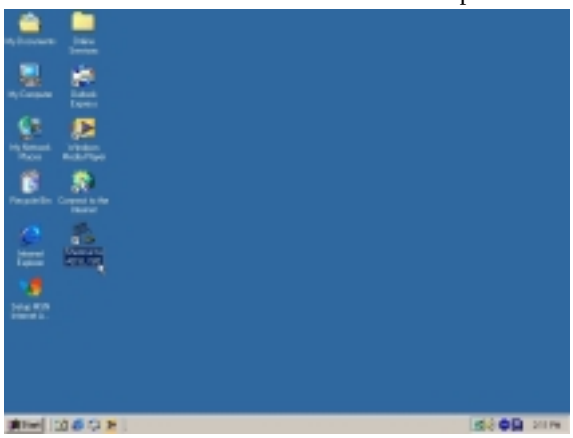


2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

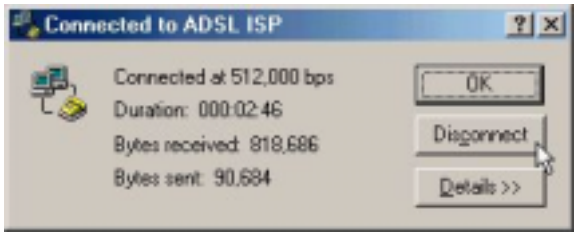


3.2.2.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



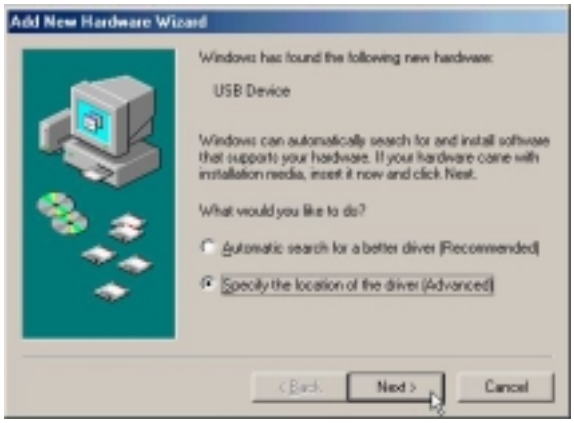
2. Click ***Disconnect*** end connect.



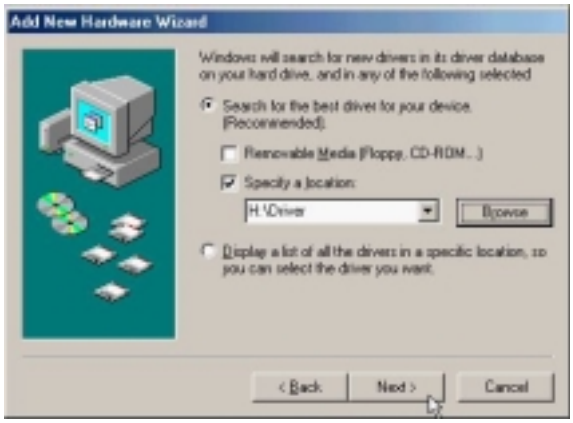
3.2.3 PPPoA

3.2.3.1 Installing Driver

1. Please insert the driver CD supplied when you see the message of ***USB Device*** appearing on the screen, select ***Specify the location of the driver (advanced)***, then click ***Next***.



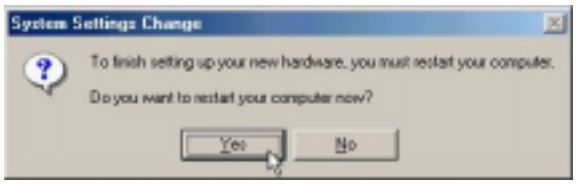
2. Select ***Search for the best driver for your device. [Recommended]*** and check ***Specify a location***, then type in the path of CD-ROM drive (for example H:\Driver) and click ***Next***.



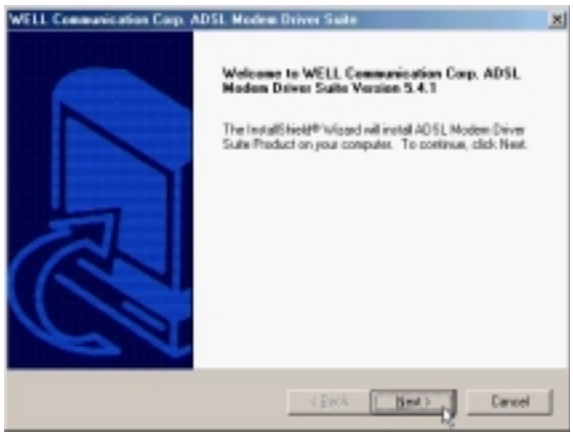
3. Windows has found the driver for the ***ADSL Modem*** and click ***Next***.

4. The installation has been done, click ***Finish***.

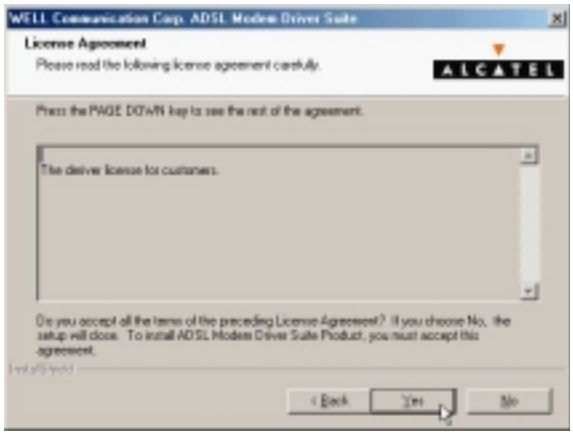
5. Click ***Yes*** to restart computer.



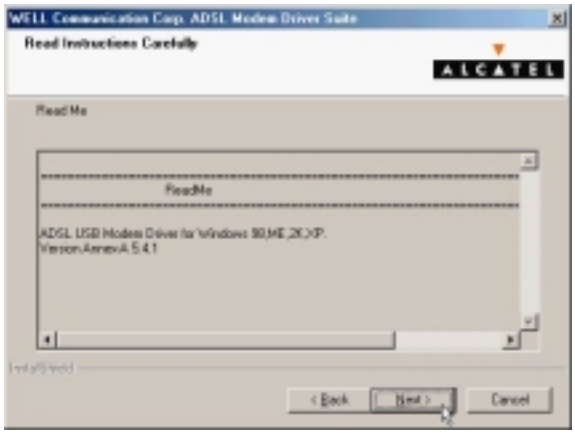
6. Click ***Next***.



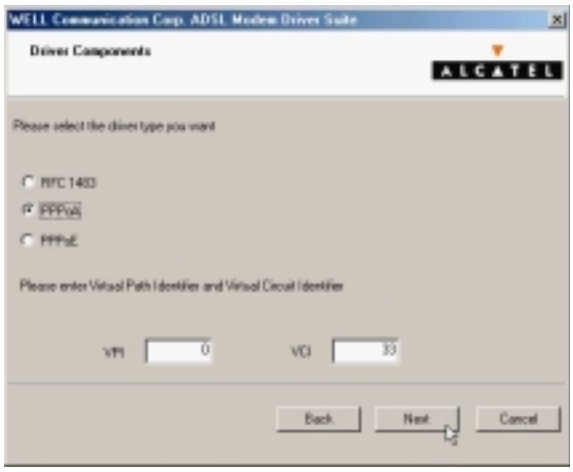
7. Click ***Yes***.



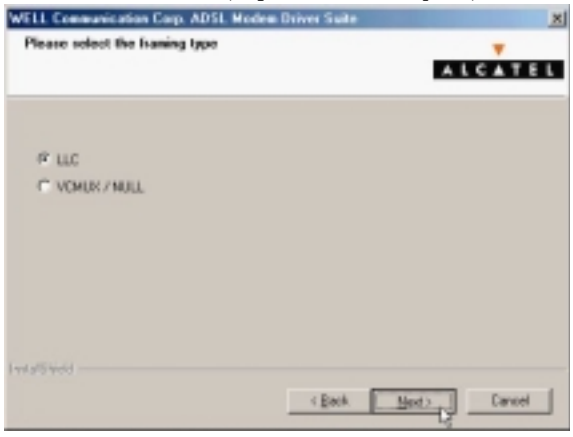
8. Click ***Next***.



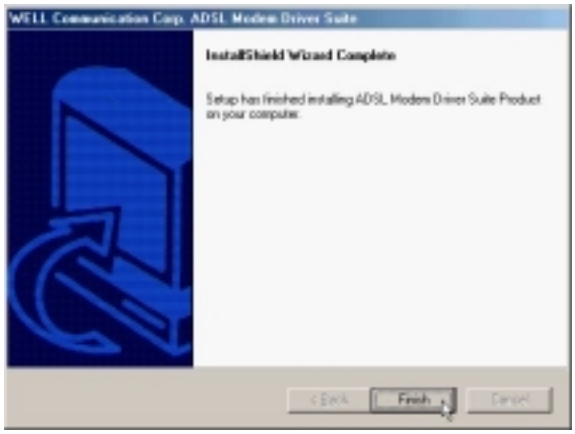
9. Select ***PPPoA*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



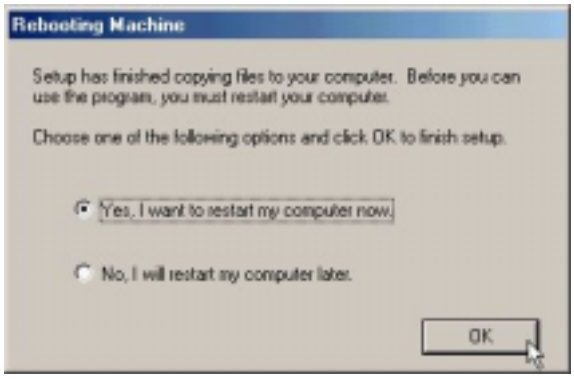
10. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



11. Click ***Finish***.



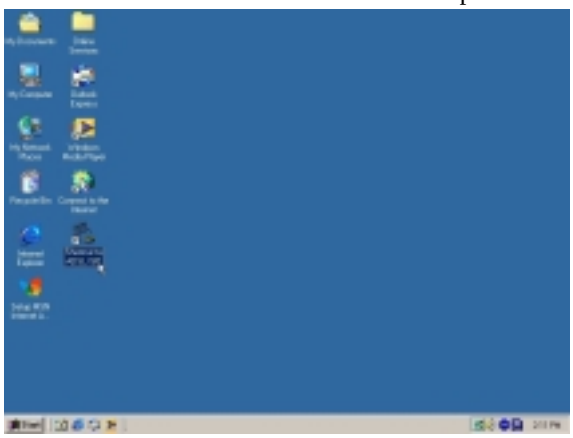
12. Select ***Yes, I want to restart my computer now*** and click ***OK***.



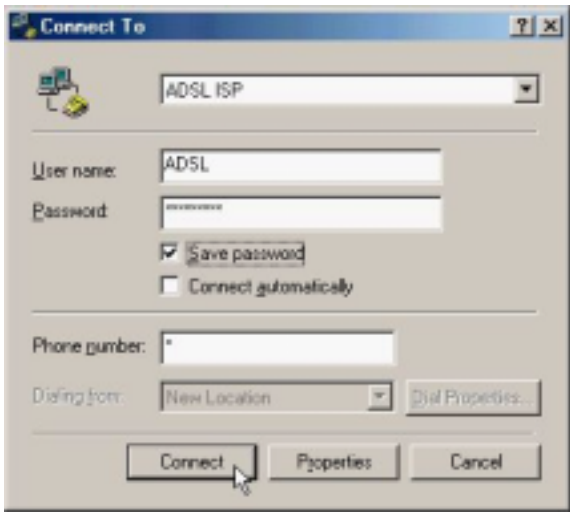
3.2.3.2 Connect and Disconnect

3.2.3.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

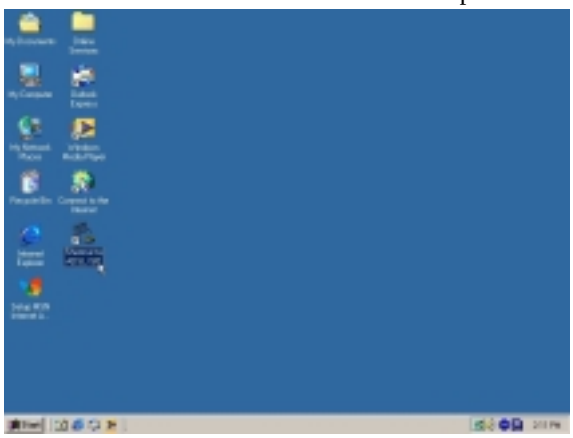


2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

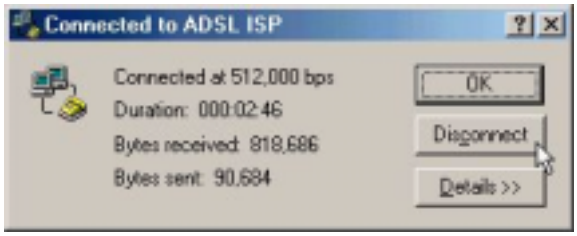


3.2.3.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



2. Click ***Disconnect*** end connect.



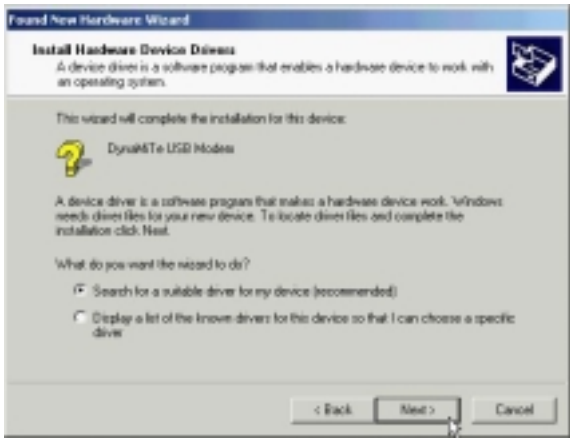
3.3. MS Windows 2000

3.3.1 MPoA (RFC1483)

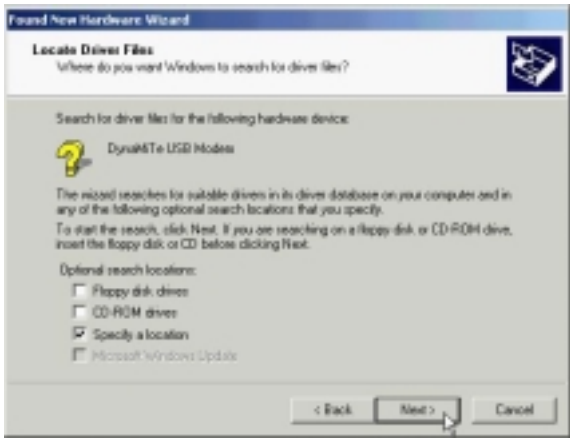
3.3.1.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and click ***Next***.

2. Select ***Search for a suitable driver for my device. [Recommended]*** and click ***Next***.

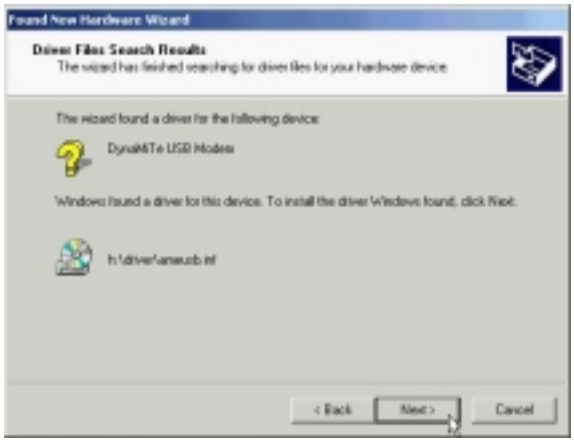


3. Select ***Specify a location*** and click ***Next***.

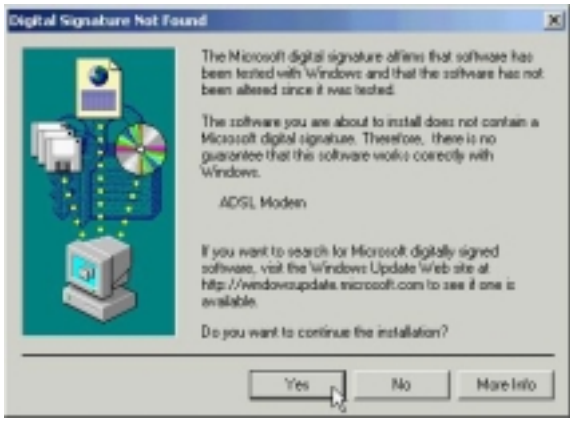


4. Type in the path of CD-ROM drive (for example H:\Driver) and click ***OK***.

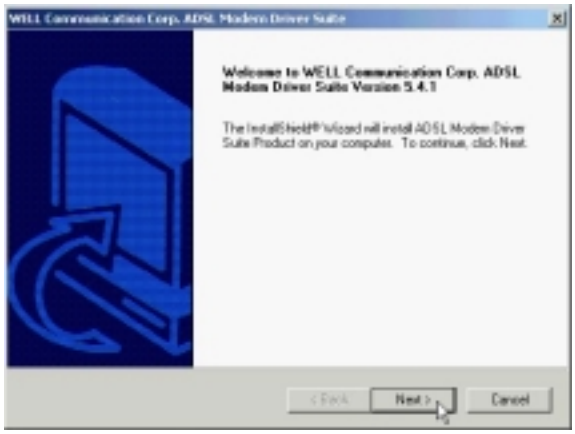
5. Click ***Next***.



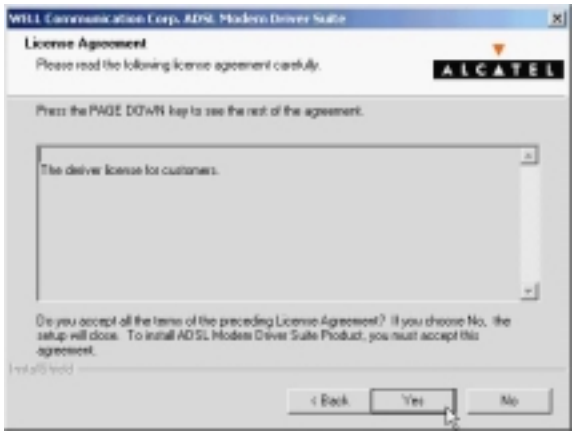
6. Click ***Yes***.



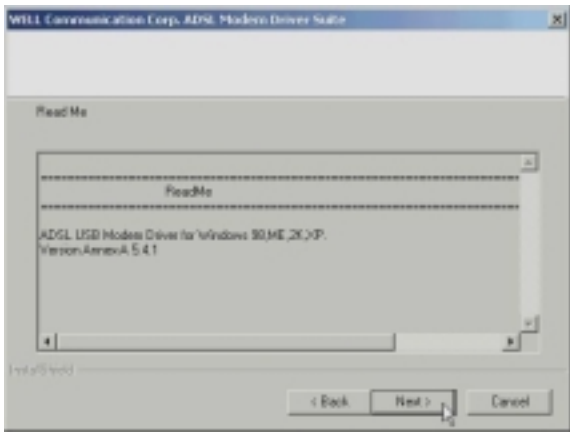
7. Click ***Next***.



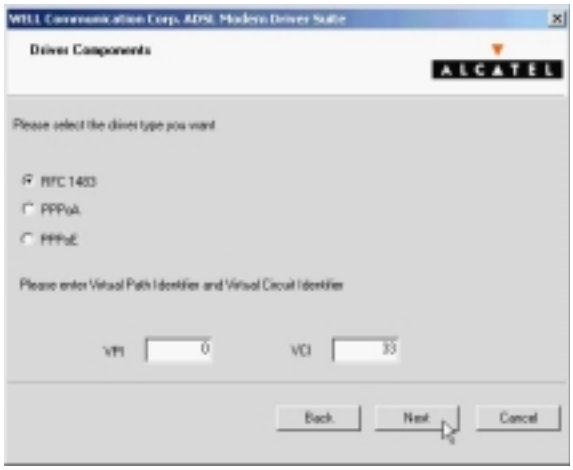
8. Click ***Yes***.



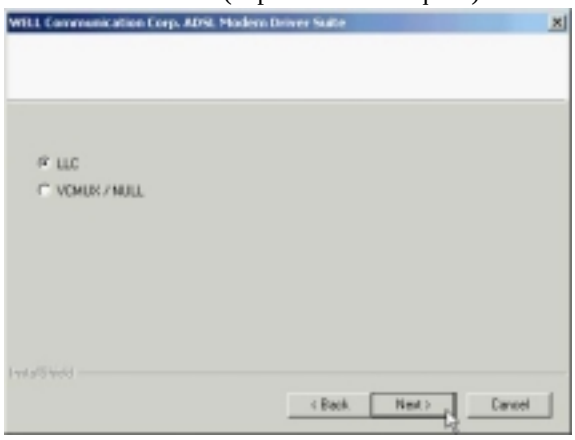
9. Click ***Next***.



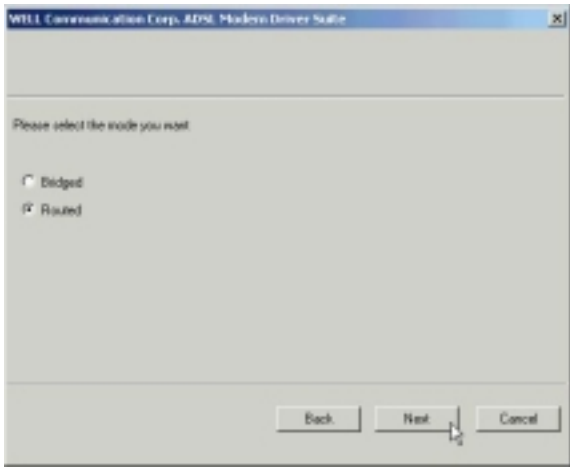
10. Select ***RFC1483*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



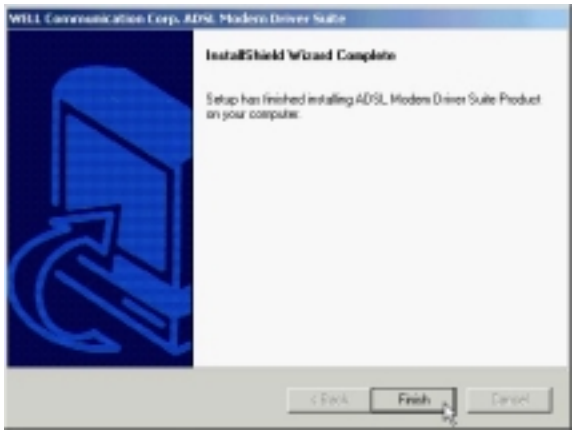
11. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



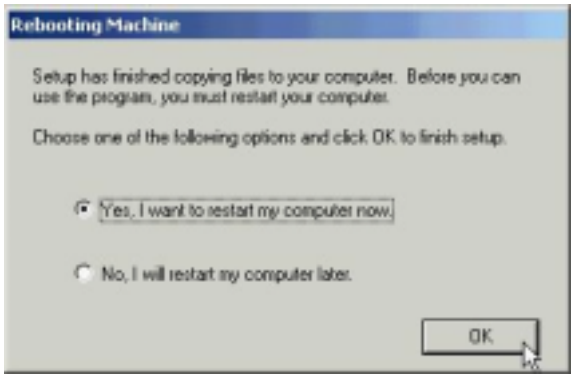
12. Select ***Bridged*** or ***Routed*** (depend on ISP request) and click ***Next***.



13. Click ***Finish***.

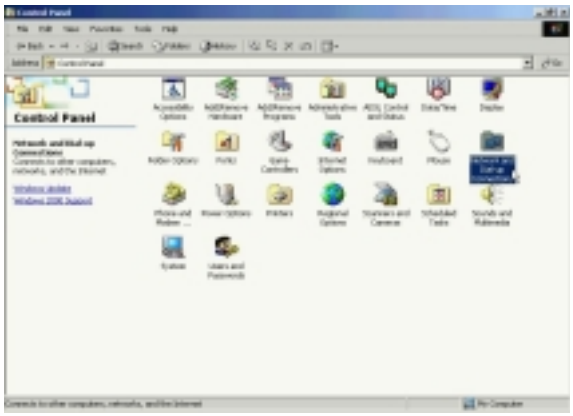


14. Select ***Yes, I want to restart my computer now*** and click ***OK***.

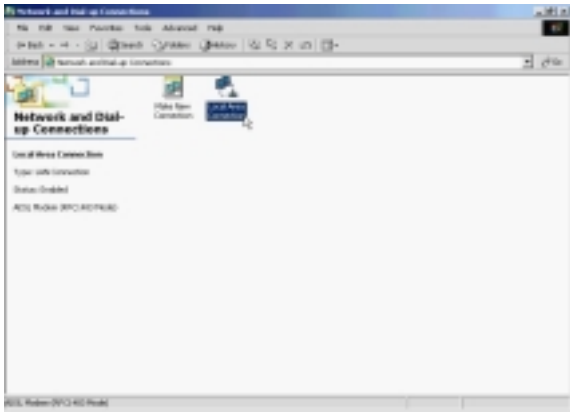


3.3.1.2 Setting IP, Subnet Mask, Gateway, DNS

1. Move your cursor as following sequence ***Start \ Settings \ Control Panel*** and click ***Control Panel***. Then double-click on the ***Network and Dial-up connections***.

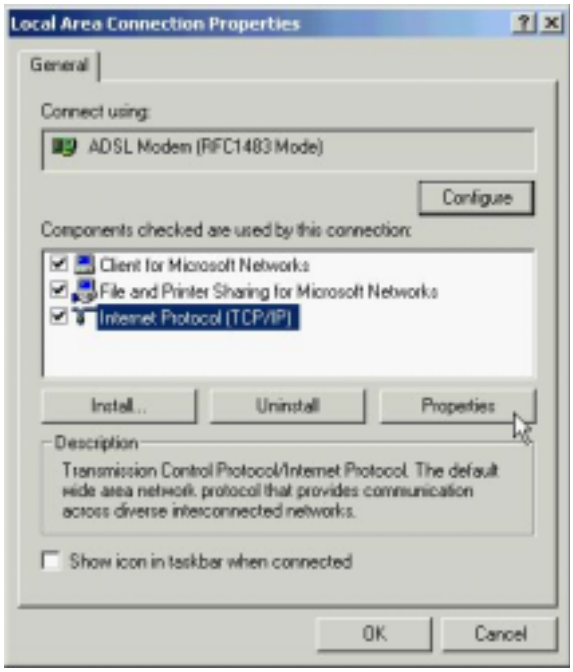


2. Double-click on the ***Local Area Connections***.

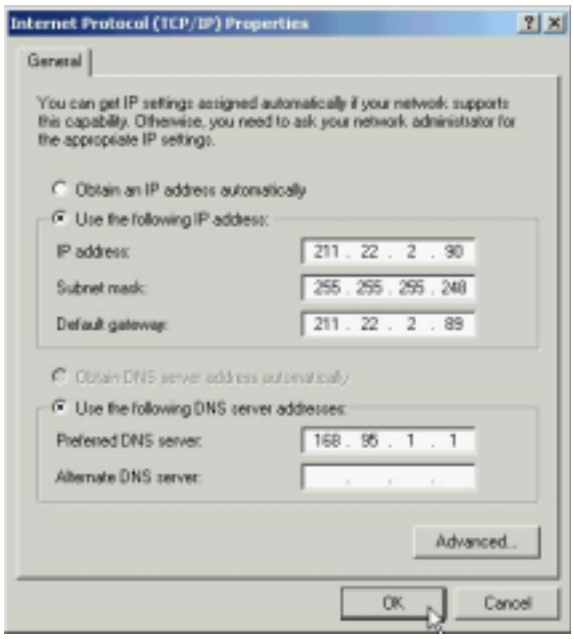


3. Click ***Properties***.

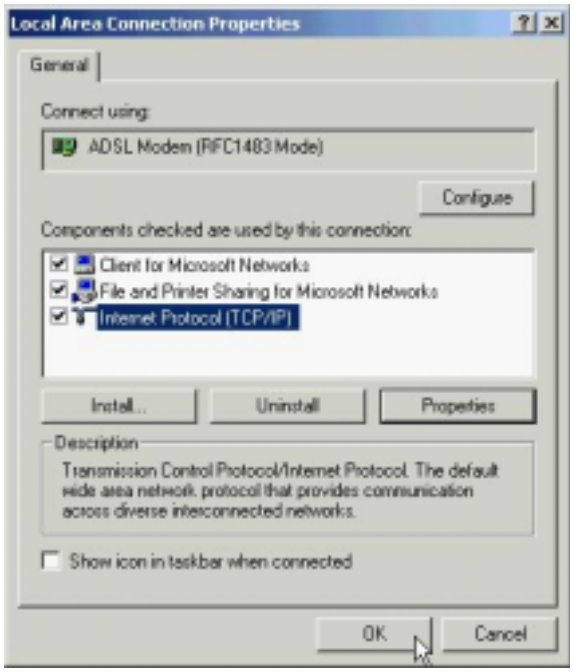
4. Select the ***Internet Protocol (TCP/IP)*** and click ***Properties***.



5. Select ***Use the following IP address*** and setting ***IP address, Subnet mask, Default gateway, Preferred DNS server*** and click ***OK***.



6. Click ***OK***.

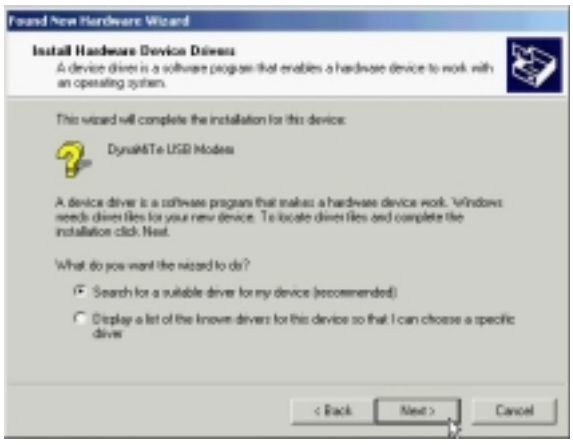

Local Area Connection Properties
General
Connect using:
ADSL Modem (RFC1483 Mode)
Configure
Components checked are used by this connection:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
Internet Protocol (TCP/IP)
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in taskbar when connected
OK
Cancel

3.3.2 PPPoE

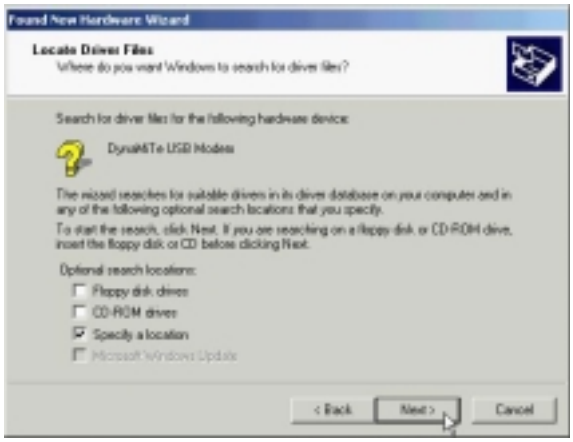
3.3.2.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and click ***Next***.

2. Select ***Search for a suitable driver for my device. [Recommended]*** and click ***Next***.

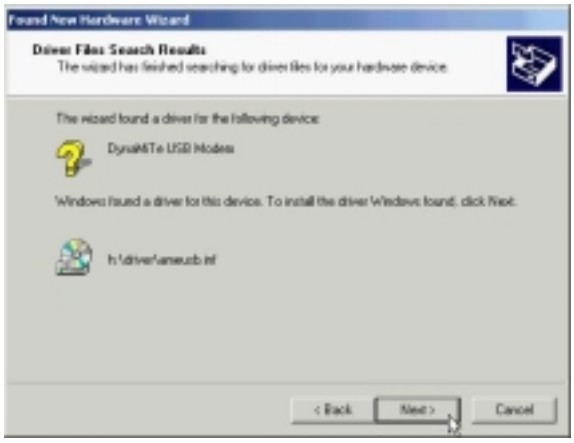


3. Select ***Specify a location*** and click ***Next***.

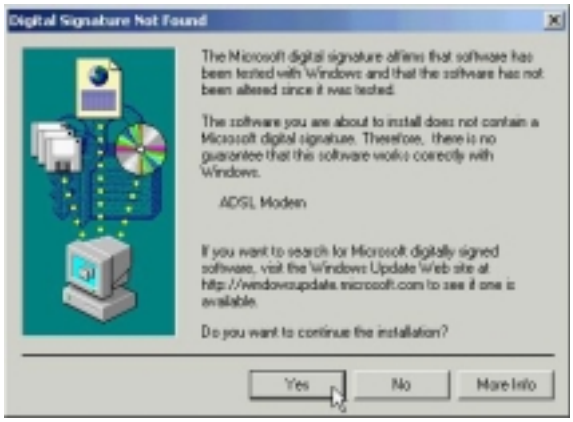


4. Type in the path of CD-ROM drive (for example H:\Driver) and click ***OK***.

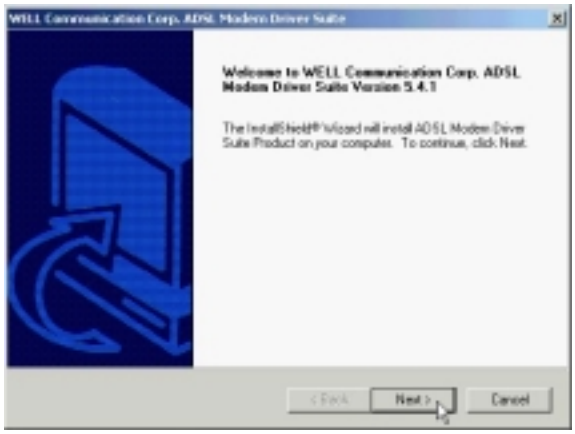
5. Click ***Next***.



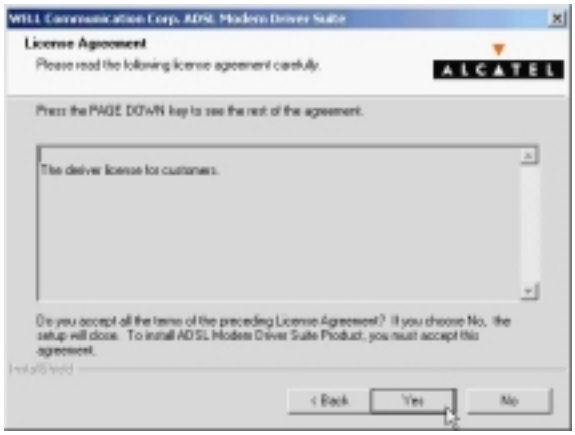
6. Click ***Yes***.



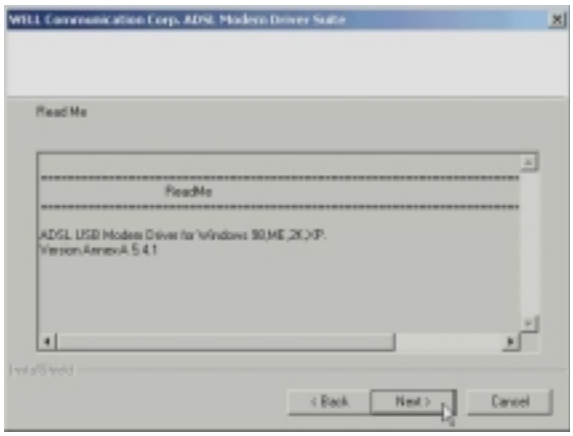
7. Click ***Next***.



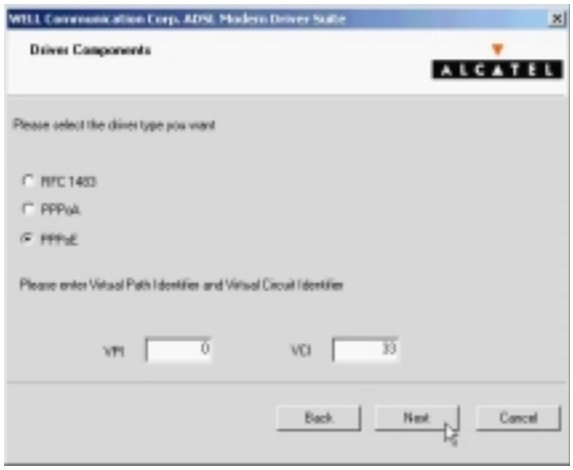
8. Click ***Yes***.



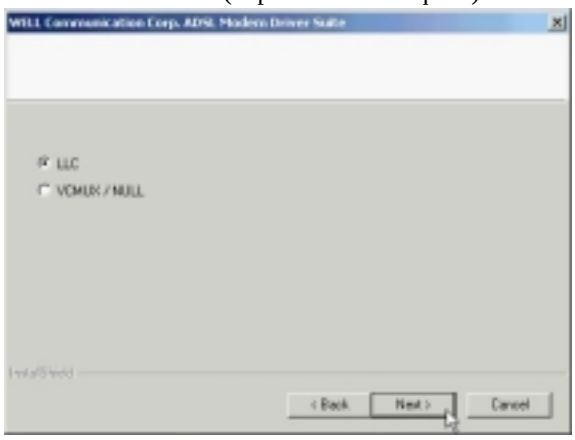
9. Click ***Next***.



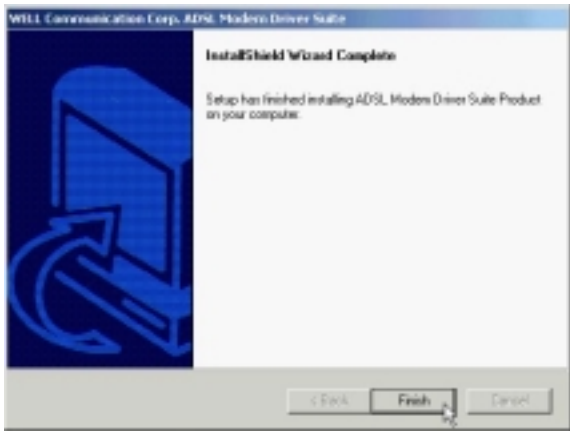
10. Select ***PPPoE*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



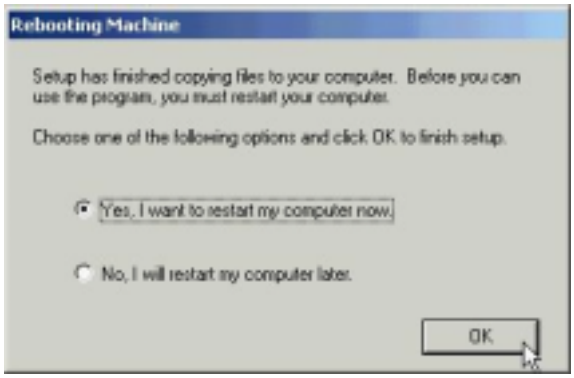
11. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



12. Click ***Finish***.



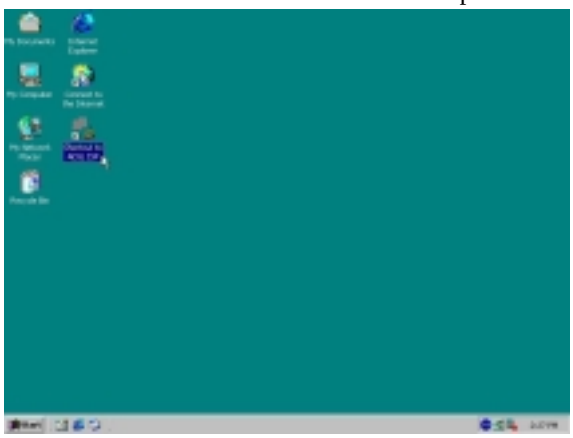
13. Select ***Yes, I want to restart my computer now*** and click ***OK***.



3.3.2.2 Connect and Disconnect

3.3.2.2.1 Connect

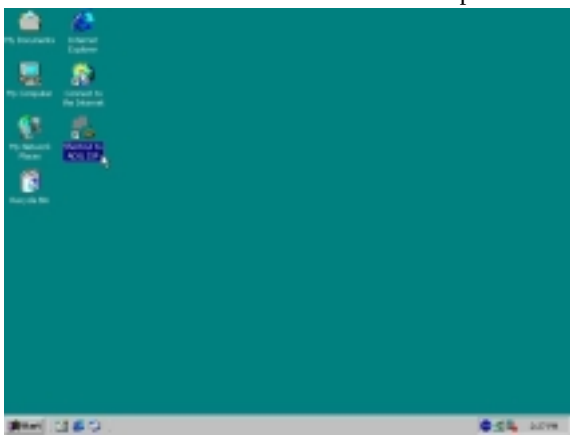
1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



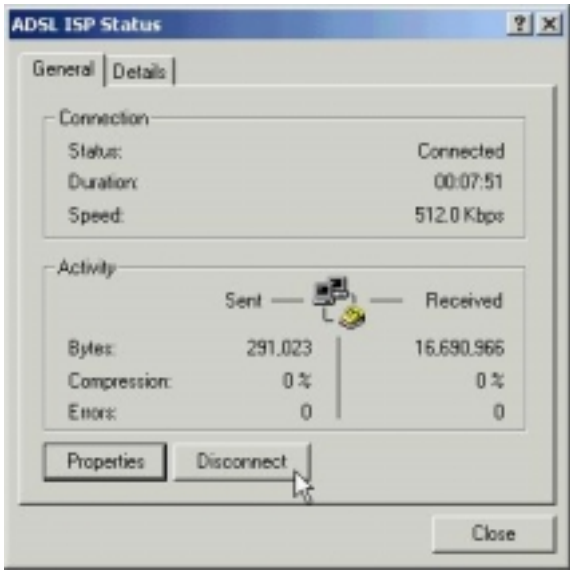
2. Type in ***User name*** and ***Password*** then click ***Dial***. The computer will connect to ISP and you can enjoy Internet.

3.3.2.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



2. Click ***Disconnect*** end connect.

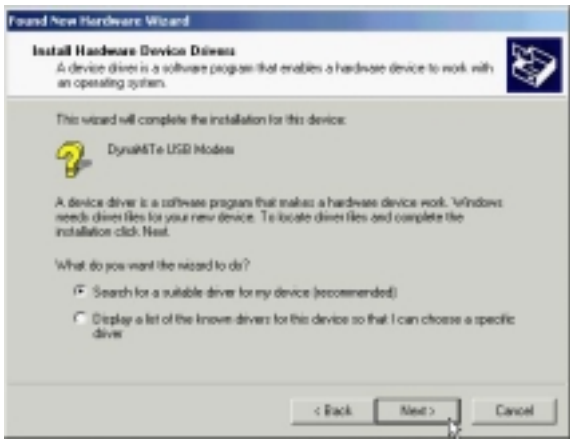


3.3.3 PPPoA

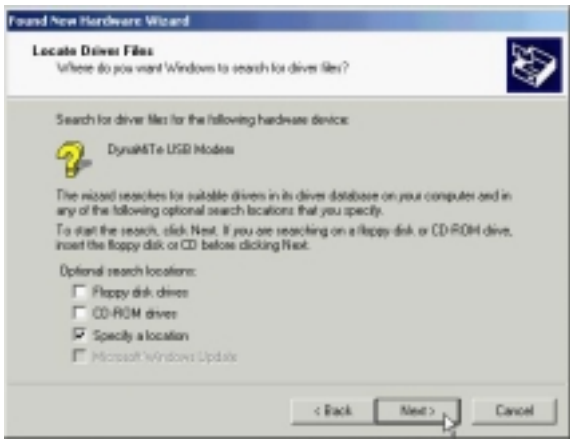
3.3.3.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and click ***Next***.

2. Select ***Search for a suitable driver for my device. [Recommended]*** and click ***Next***.

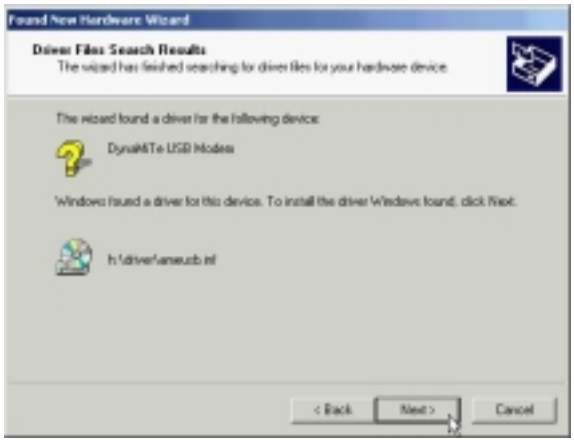


3. Select ***Specify a location*** and click ***Next***.

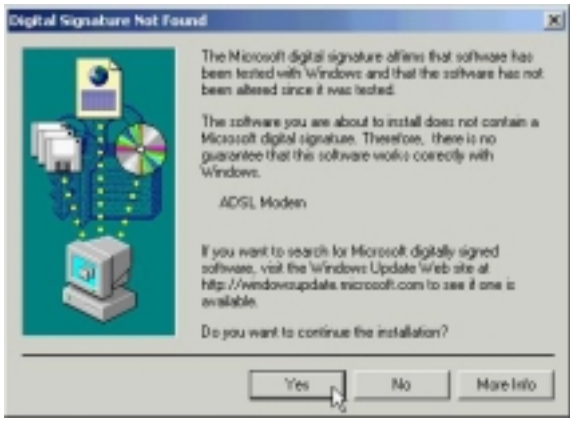


4. Type in the path of CD-ROM drive (for example H:\Driver) and click ***OK***.

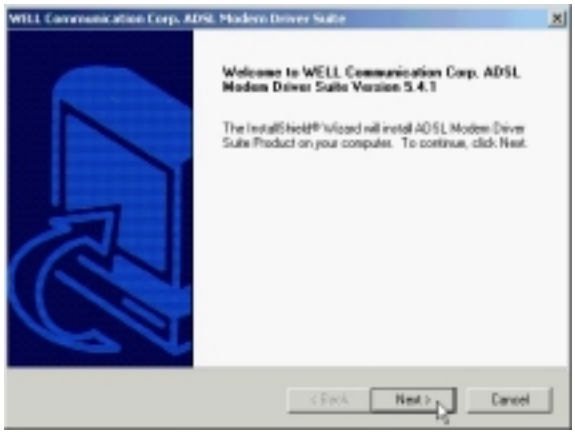
5. Click ***Next***.



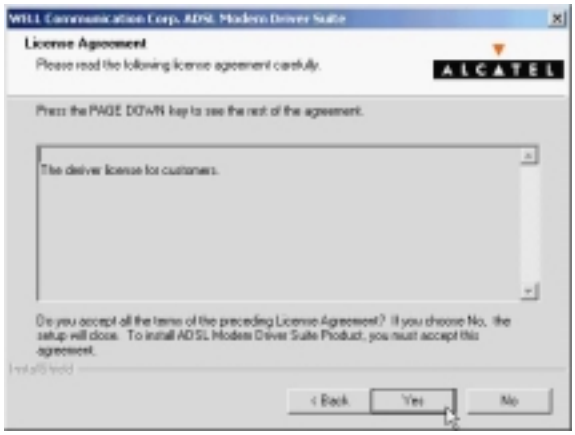
6. Click ***Yes***.



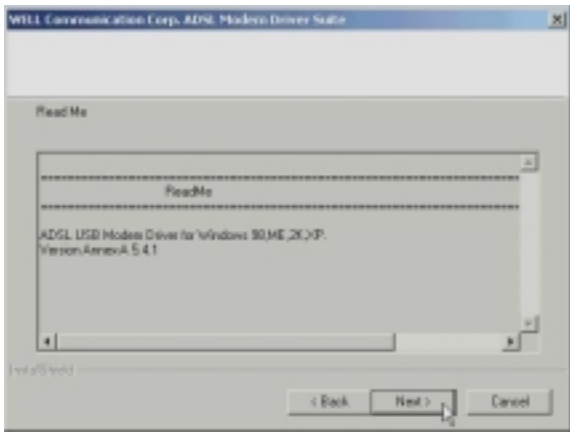
7. Click ***Next***.



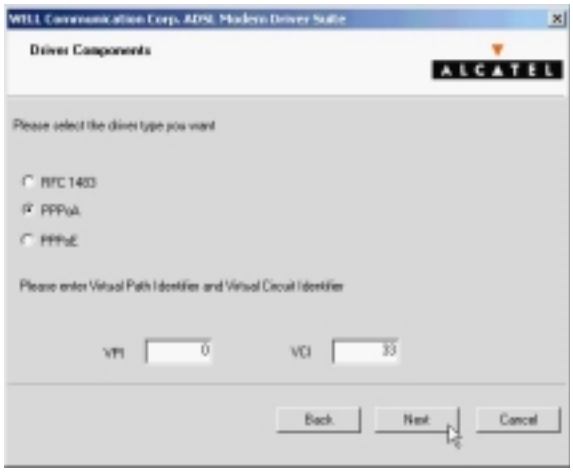
8. Click ***Yes***.



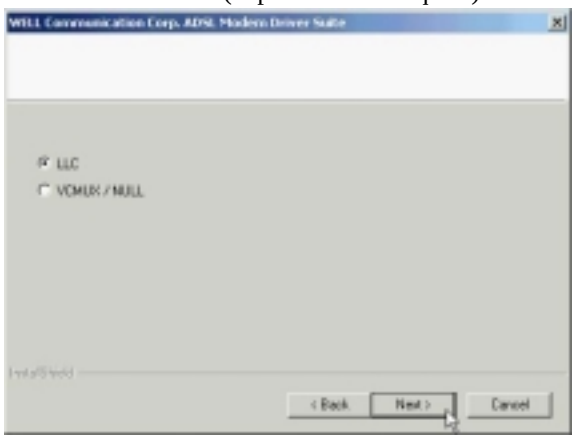
9. Click ***Next***.



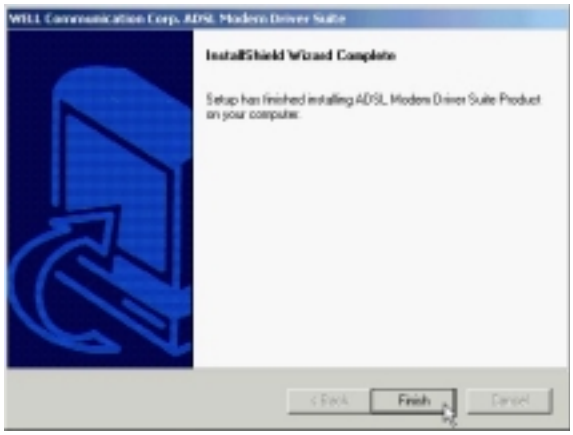
10. Select ***PPPoA*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



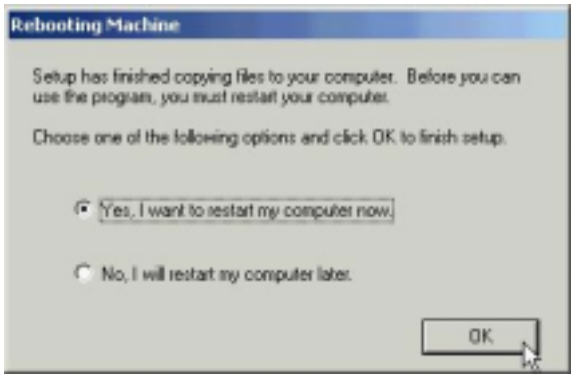
11. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



12. Click ***Finish***.



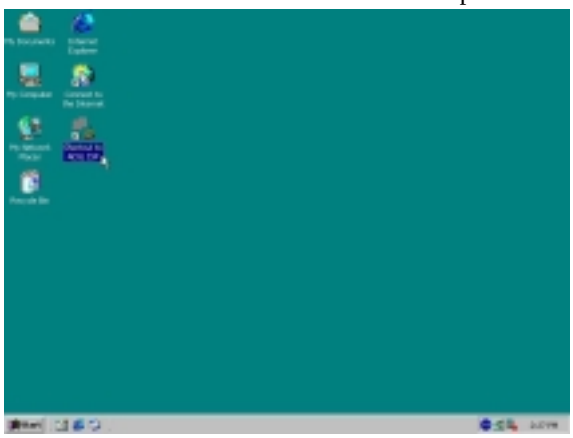
13. Select ***Yes, I want to restart my computer now*** and click ***OK***.



3.3.3.2 Connect and Disconnect

3.3.3.2.1 Connect

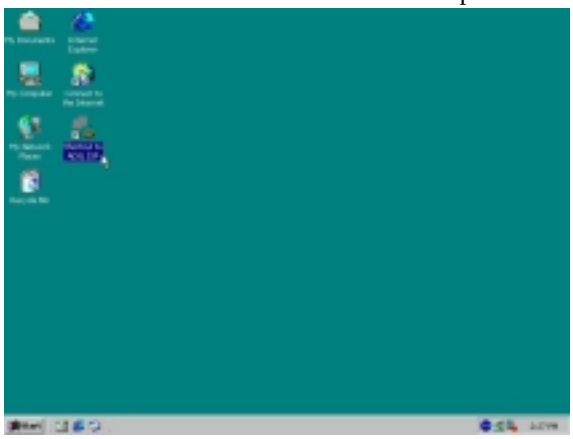
1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



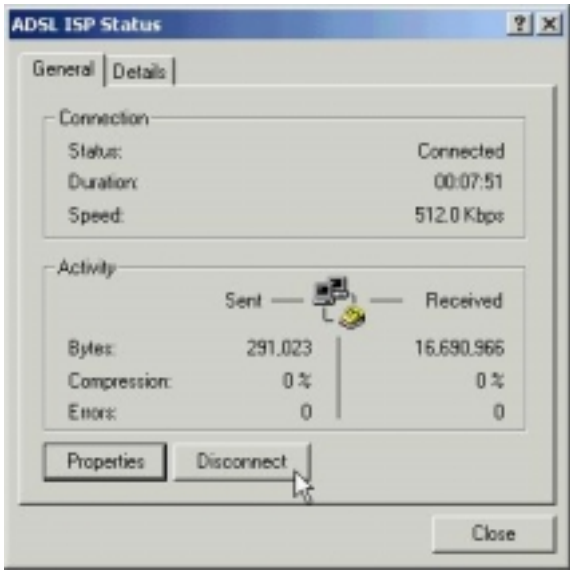
2. Type in ***User name*** and ***Password*** then click ***Dial***. The computer will connect to ISP and you can enjoy Internet.

3.3.3.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.



2. Click ***Disconnect*** end connect.



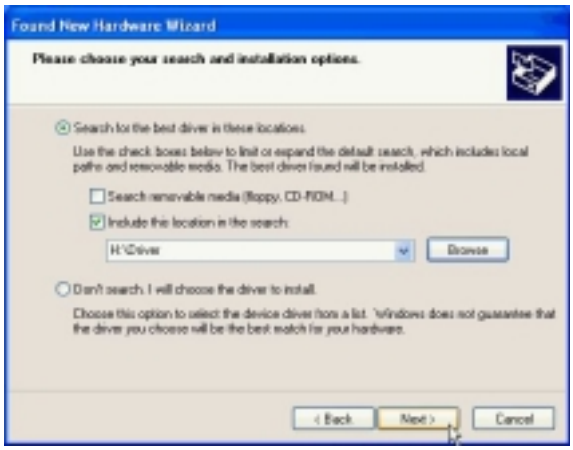
3.4. MS Windows XP

3.4.1 MPoA (RFC1483)

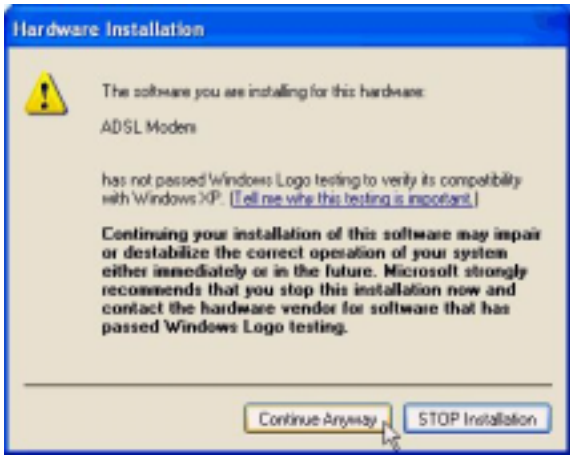
3.4.1.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and select ***Install from a list or specific location (Advanced***) then click ***Next***.

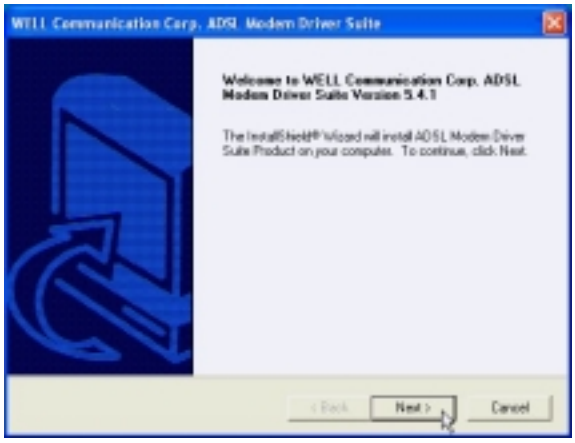
2. Select ***Include this location in the search*** and type in the path of CD-ROM drive (for example H:\Driver), then click ***Next***.



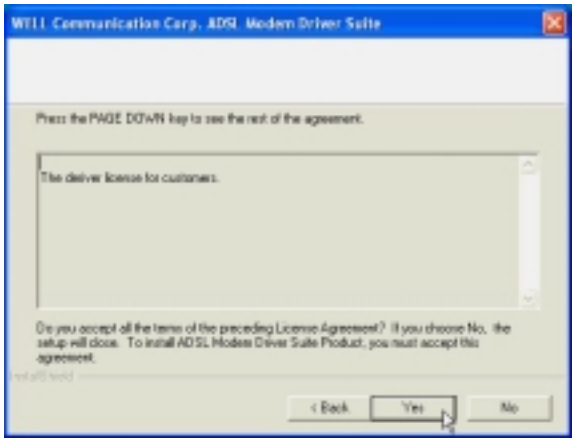
3. Click ***Continue Anyway***.



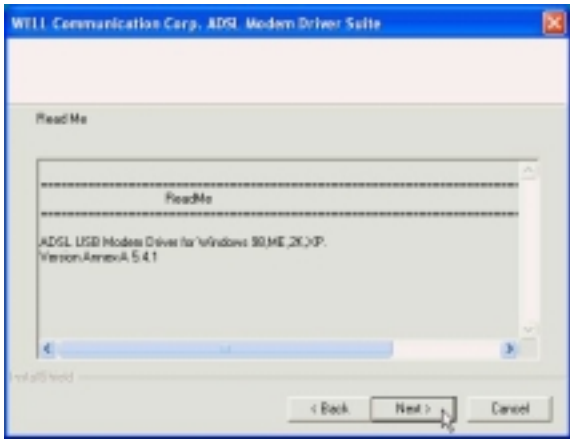
4. Click ***Next***.



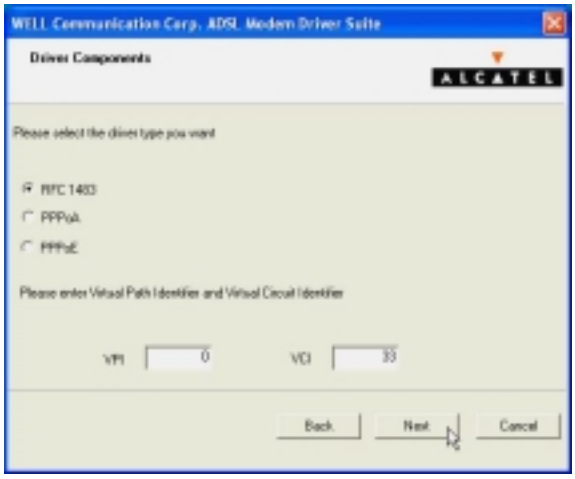
5. Click ***Yes***.



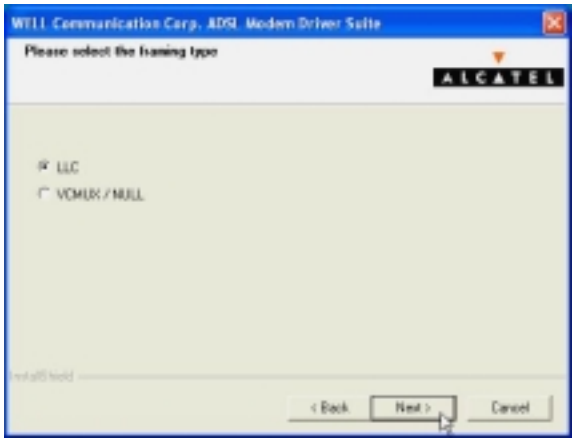
6. Click ***Next***.



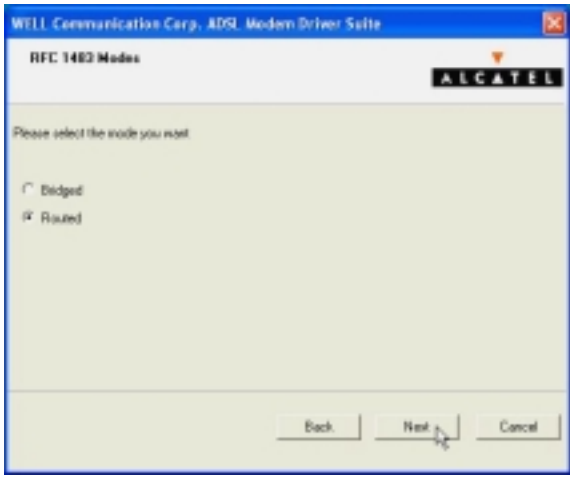
7. Select ***RFC1483*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next.***



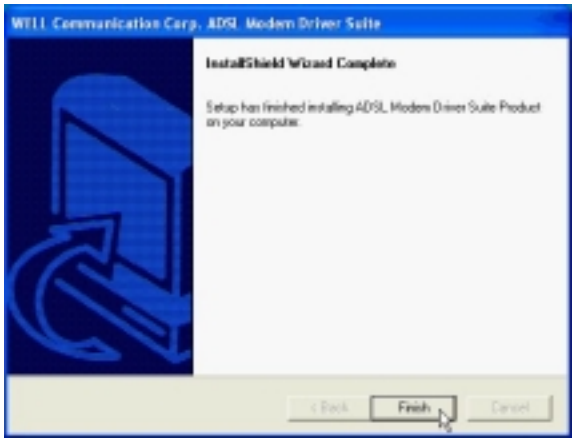
8. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next.***



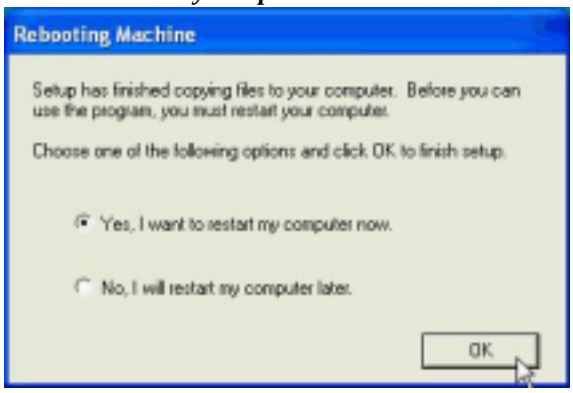
9. Select ***Bridged*** or ***Routed*** (depend on ISP request) and click ***Next*** .



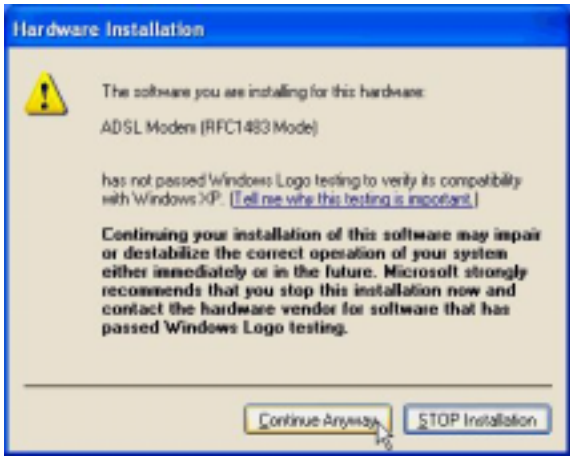
10. Click ***Finish***.



11. Select ***Yes, I want to restart my computer now*** and click ***OK***.

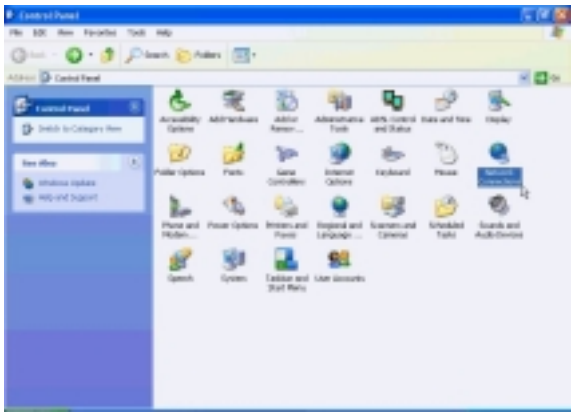


12. Click ***Continue Anyway***.

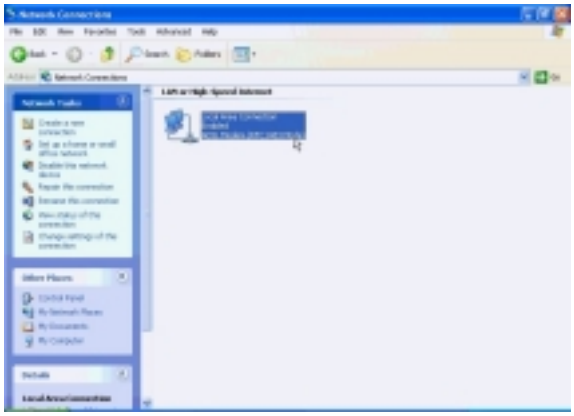


3.4.1.2 Setting IP, Subnet Mask, Gateway, DNS

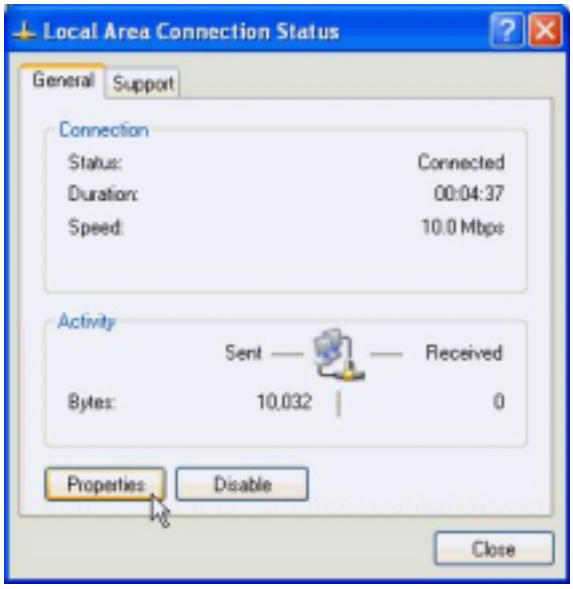
1. Move your cursor as following sequence ***Start \ Settings \ Control Panel*** and click ***Control Panel***. Then double-click on the ***Network connections***.



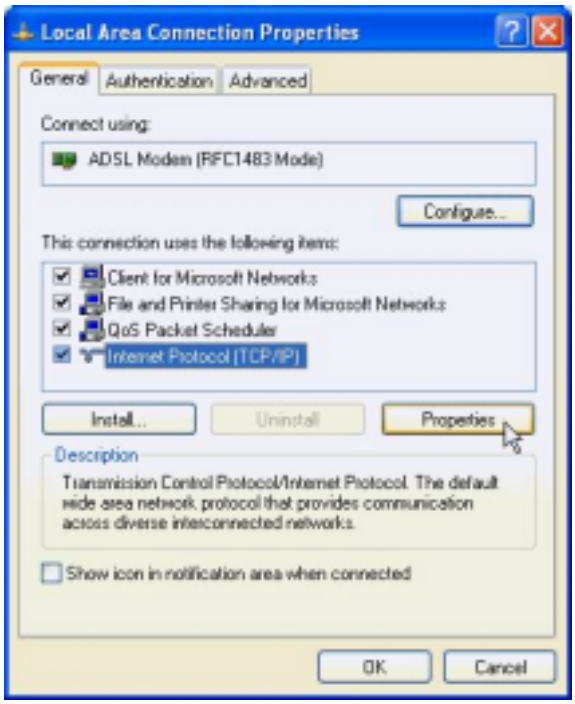
2. Double-click on the ***Local Area Connection***.



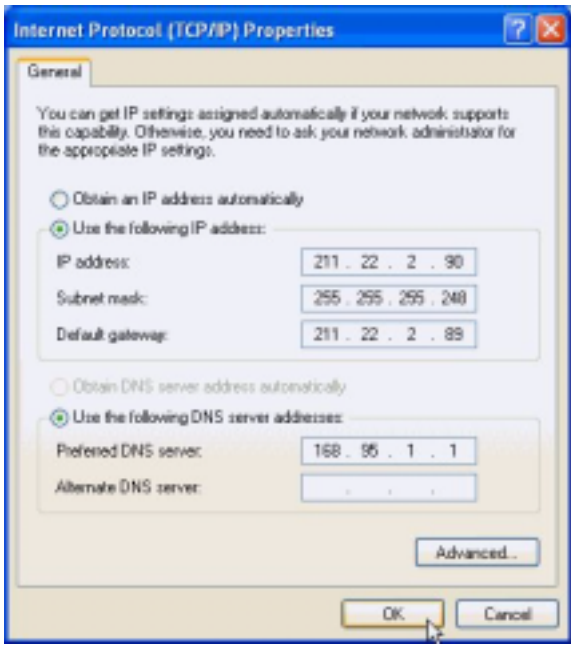
3. Click ***Properties***.



4. Select the ***Internet Protocol (TCP/IP)*** and click ***Properties***.



5. Select ***Use the following IP address*** and setting ***IP address, Subnet mask, Default gateway, Preferred DNS server*** and click ***OK***.

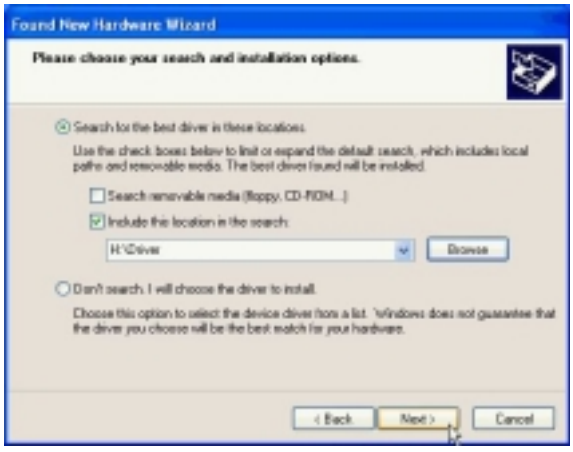


3.4.2 PPPoE

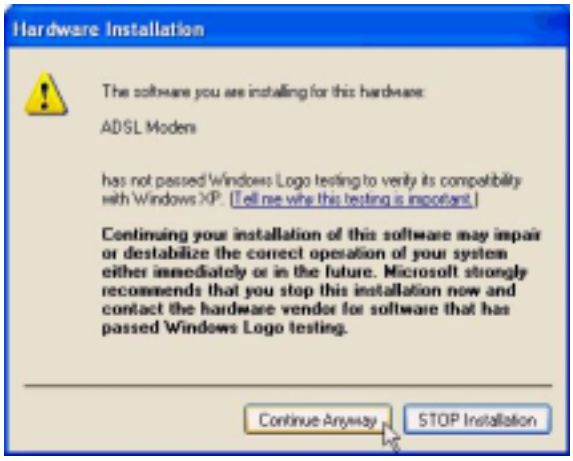
3.4.2.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and select ***Install from a list or specific location (Advanced***) then click ***Next***.

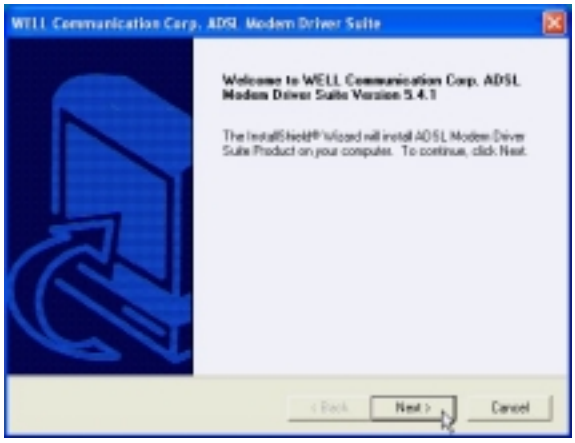
2. Select ***Include this location in the search*** and type in the path of CD-ROM drive (for example H:\Driver), then click ***Next***.



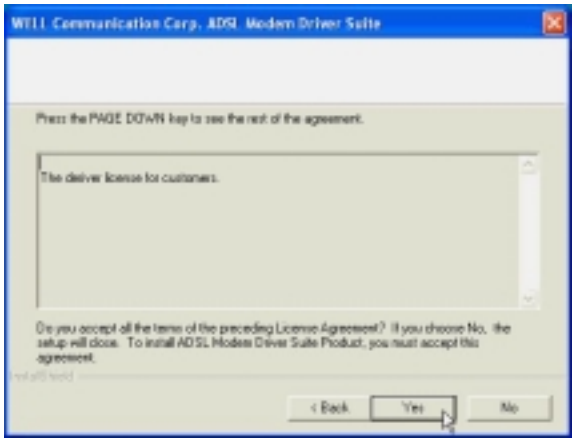
3. Click ***Continue Anyway***.



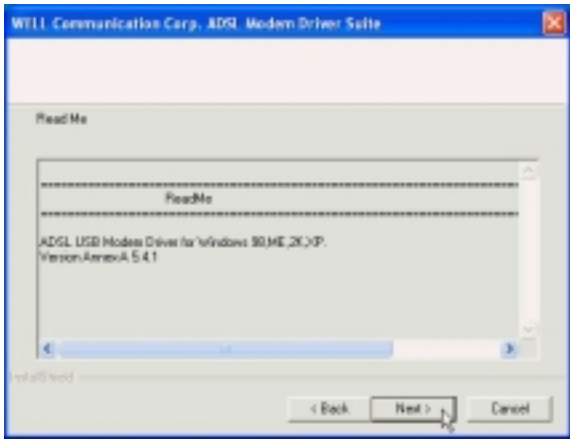
4. Click ***Next***.



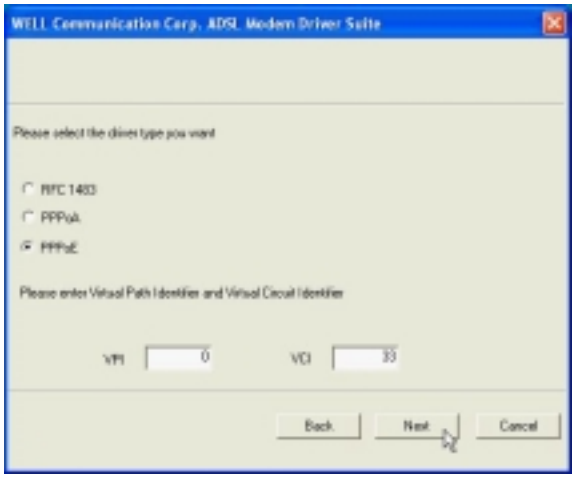
5. Click ***Yes***.



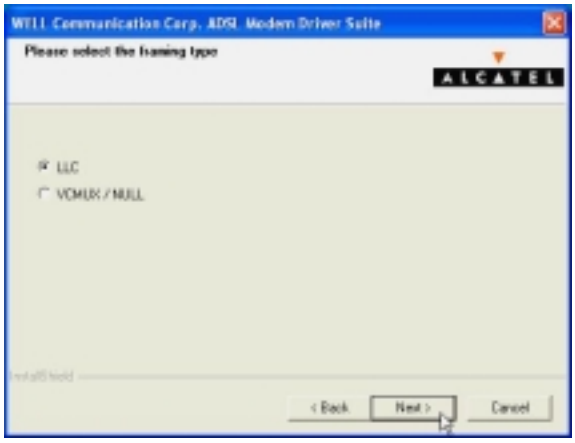
6. Click ***Next***.



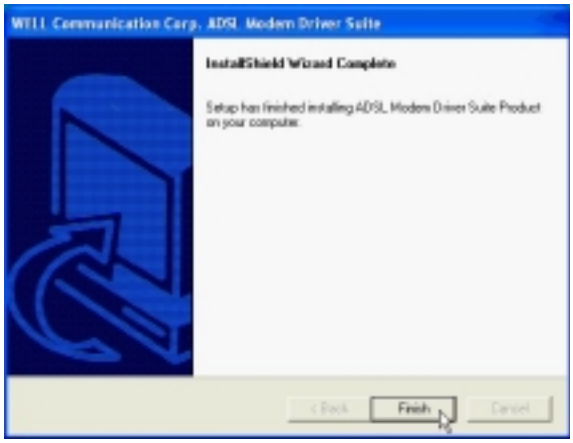
7. Select ***PPPoE*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



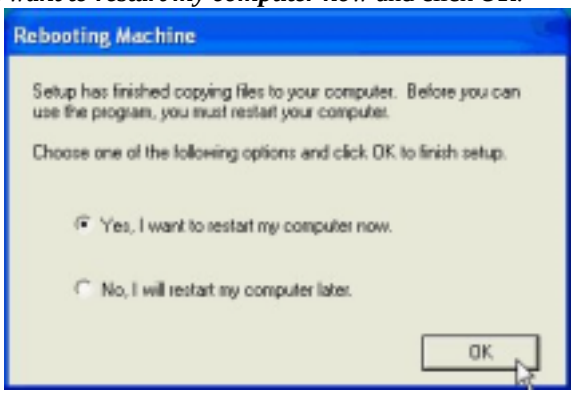
8. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



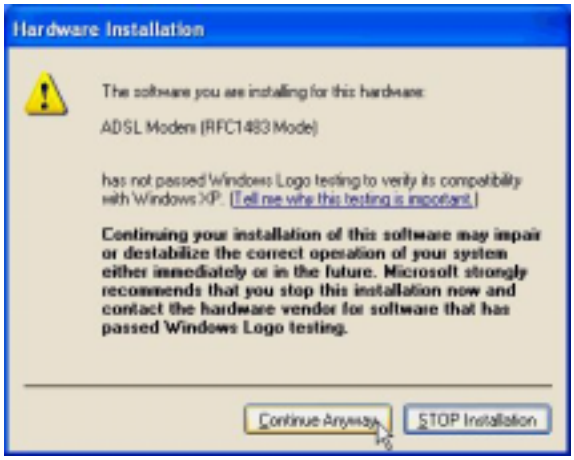
9. Click ***Finish***.



10. Select ***Yes, I want to restart my computer now*** and click ***OK***.



11. Click ***Continue Anyway***.



3.4.2.2 Connect and Disconnect

3.4.2.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

3.4.2.2.2 Disconnect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

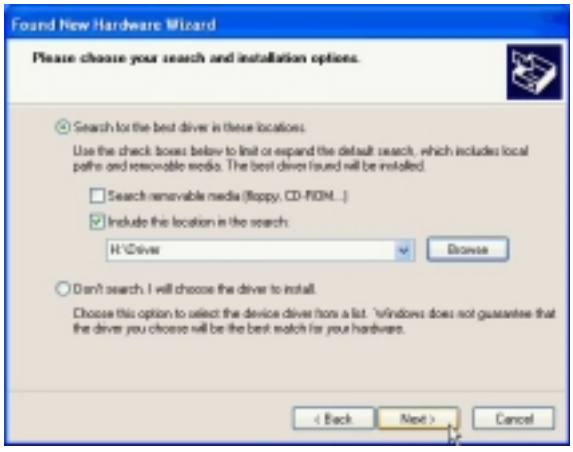
2. Click ***Disconnect*** end connect.

3.4.3 PPPoA

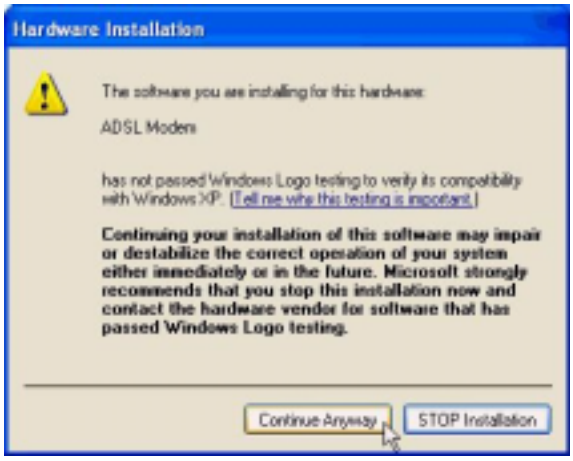
3.4.3.1 Installing Driver

1. Please insert the driver CD into CD-ROM drive and select ***Install from a list or specific location (Advanced***) then click ***Next***.

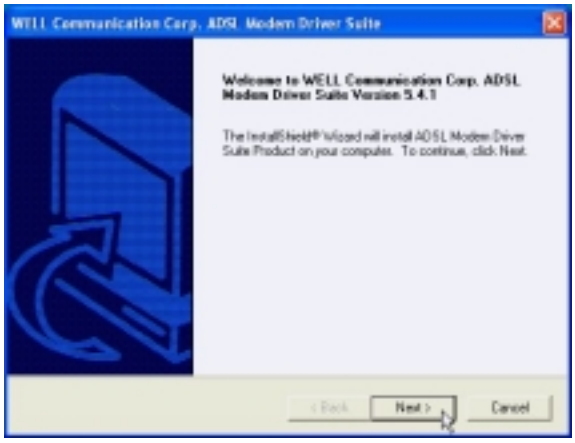
2. Select ***Include this location in the search*** and type in the path of CD-ROM drive (for example H:\Driver), then click ***Next***.



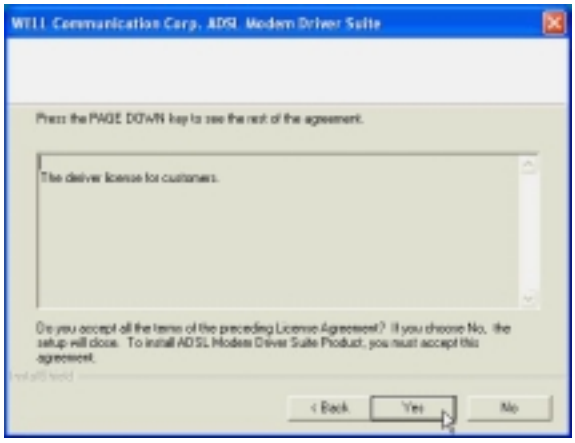
3. Click ***Continue Anyway***.



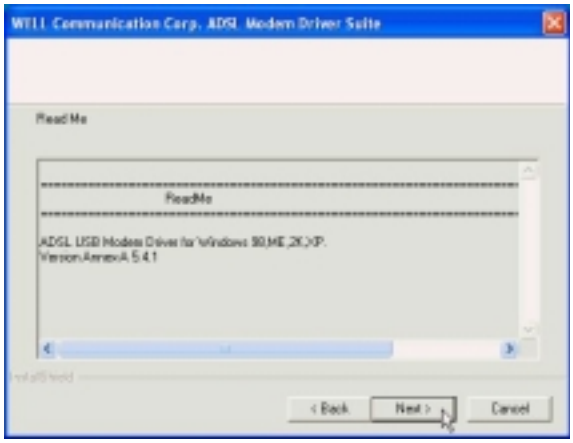
4. Click ***Next***.



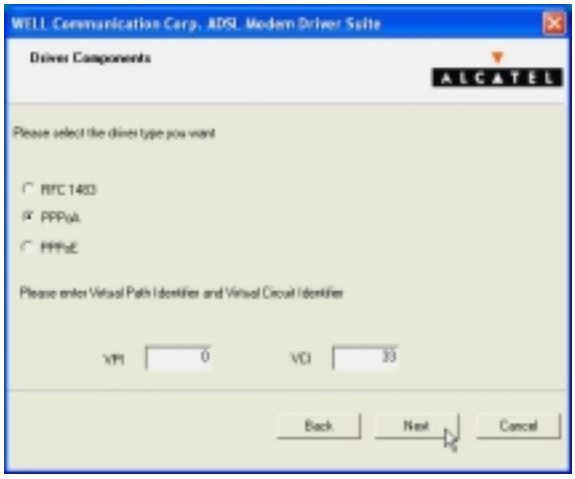
5. Click ***Yes***.



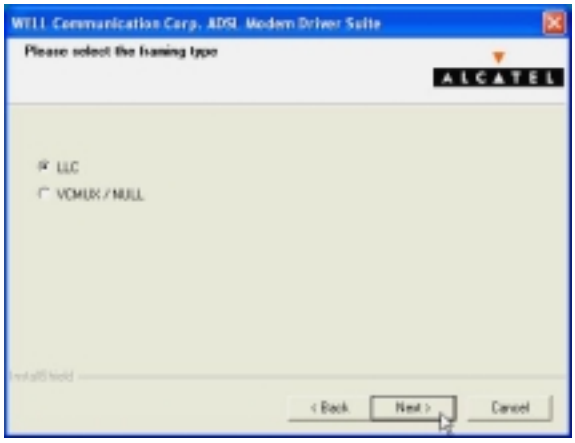
6. Click ***Next***.



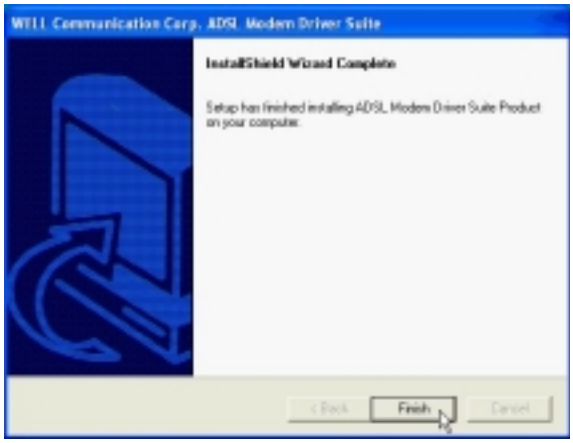
7. Select ***PPPoA*** and type in the ***VPI*** and ***VCI*** (depend on ISP request) and click ***Next***.



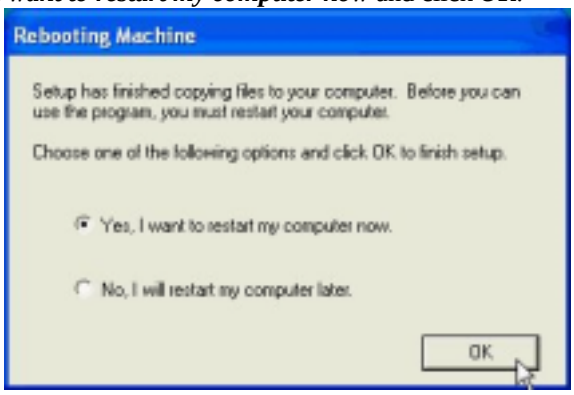
8. Select ***LLC*** or ***VCMUX / NULL*** (depend on ISP request) and click ***Next***.



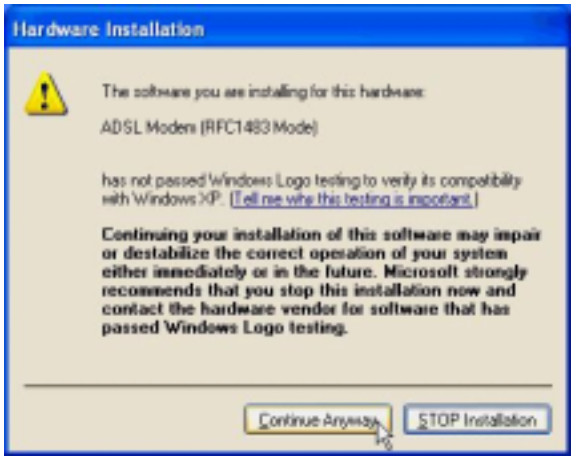
9. Click ***Finish***.



10. Select ***Yes, I want to restart my computer now*** and click ***OK***.



11. Click ***Continue Anyway***.



3.4.3.2 Connect and Disconnect

3.4.3.2.1 Connect

1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

2. Type in ***User name*** and ***Password*** then click ***Connect***. The computer will connect to ISP and you can enjoy Internet.

3.4.3.2.2 Disconnect

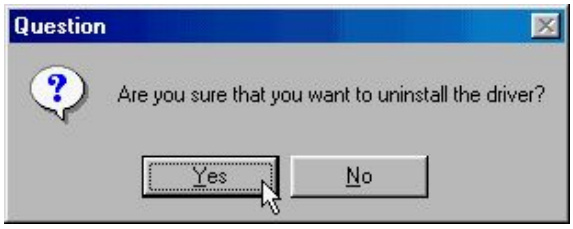
1. Double click the ***Shortcut to ADSL ISP*** icon on desktop screen.

2. Click ***Disconnect*** end connect.

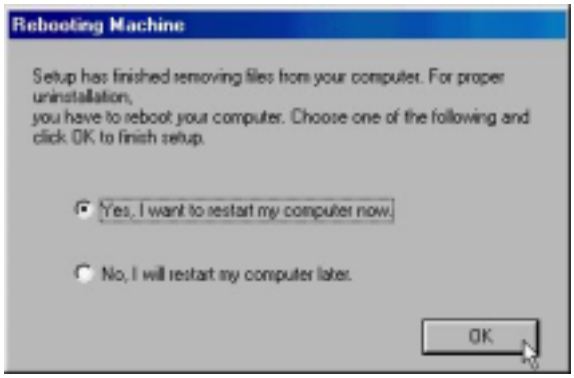
Chapter 4 Driver Uninstallation

4.1. MS Windows 98

1. Move your cursor as following sequence ***Start \ Programs \ ADSL Modem Driver*** and click ***Remove ADSL Modem Driver***.
2. Click ***Yes***.

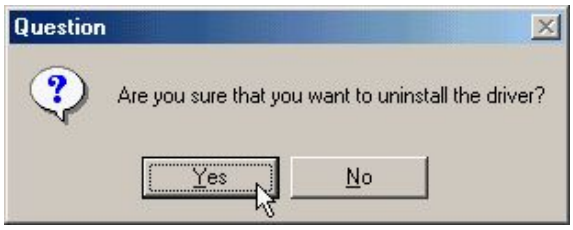


3. Select ***Yes, I want to restart my computer now*** and click ***OK***.

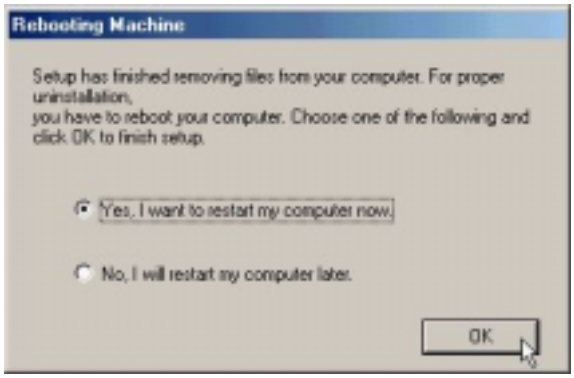


4.2. MS Windows ME

1. Move your cursor as following sequence ***Start \ Programs \ ADSL Modem Driver*** and click ***Remove ADSL Modem Driver***.
2. Click ***Yes***.

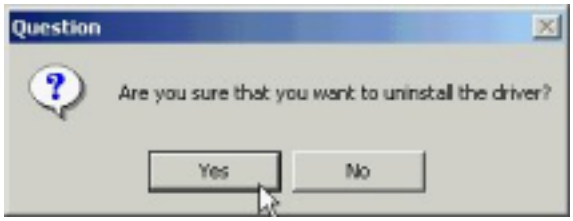


3. Select ***Yes, I want to restart my computer now*** and click ***OK***.

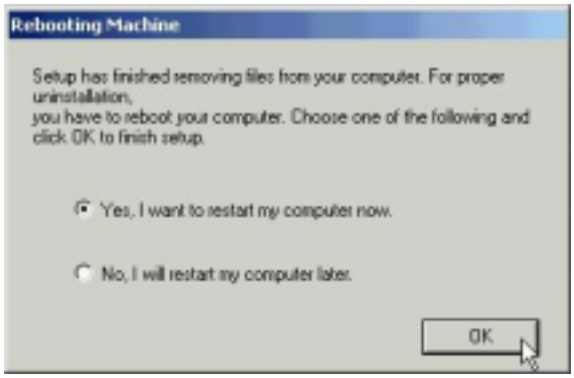


4.3. MS Windows 2000

1. Move your cursor as following sequence ***Start \ Programs \ ADSL Modem Driver*** and click ***Remove ADSL Modem Driver***.
2. Click ***Yes***.

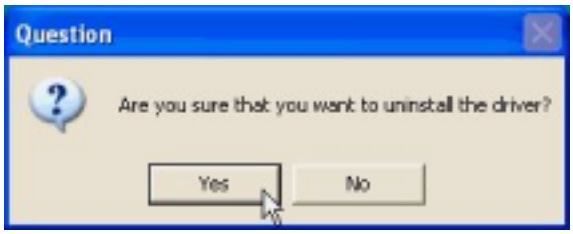


3. Select ***Yes, I want to restart my computer now*** and click ***OK***.

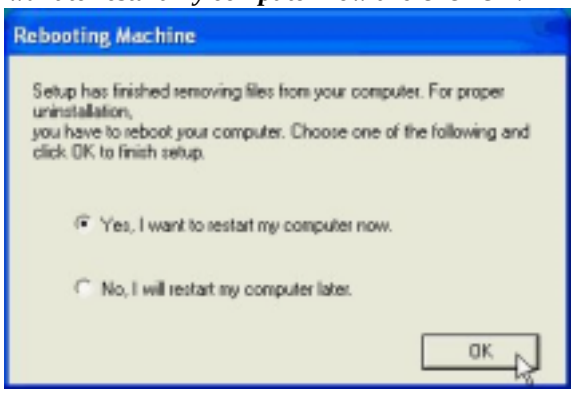


4.4. MS Windows XP

1. Move your cursor as following sequence ***Start \ All Programs \ ADSL Modem Driver*** and click ***Remove ADSL Modem Driver***.
2. Click ***Yes***.



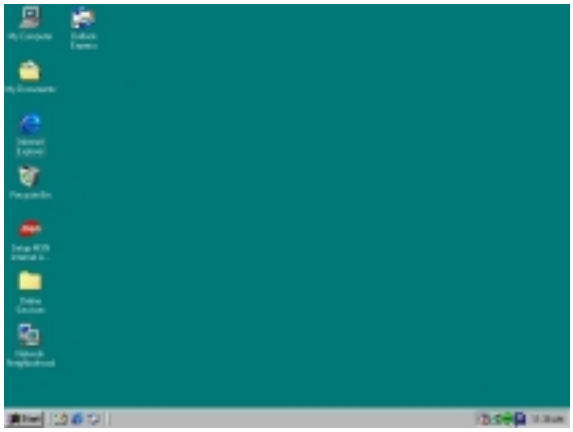
3. Select ***Yes, I want to restart my computer now*** and click ***OK***.



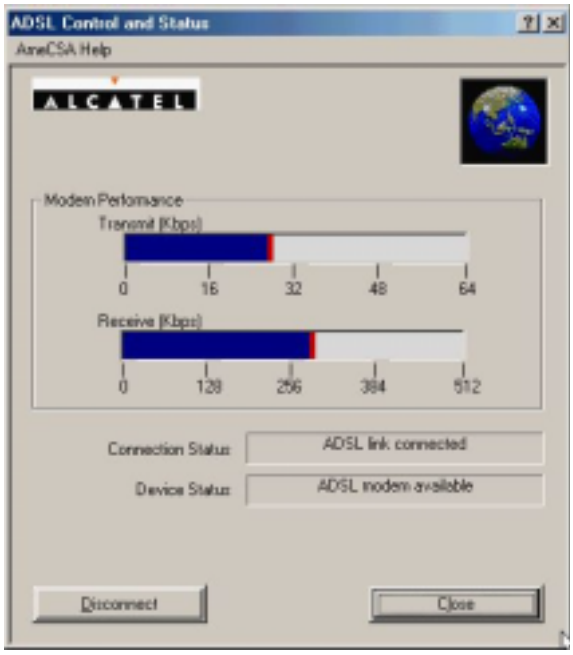
Chapter 5 Diagnostic

5.1. MS Windows 98

1. Double click the **DSL** icon on the right of Taskbar.

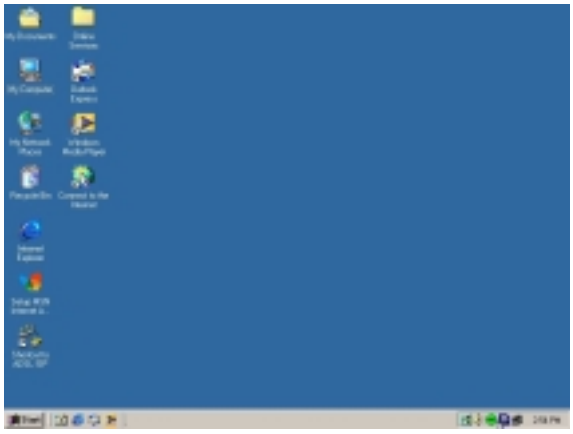


2. Check Transmit and Receive speed. If show your applied speed is OK, else ADSL is failed. The blue bar is mean data transferring.

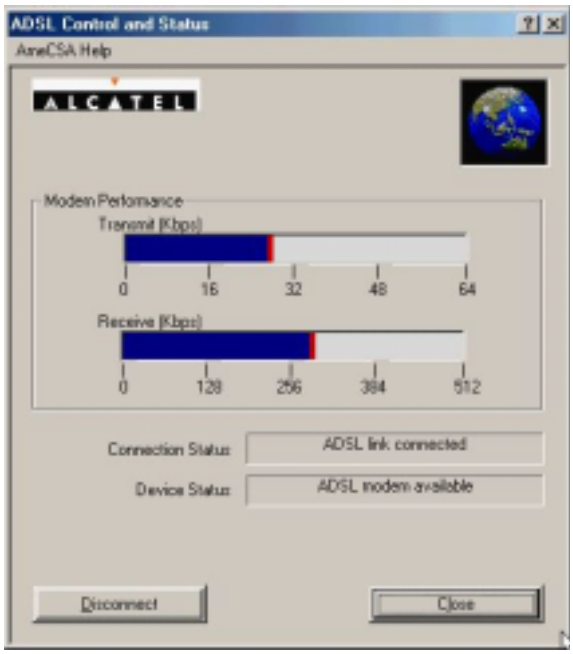


5.2. MS Windows ME

1. Double click the **DSL** icon on the right of Taskbar.



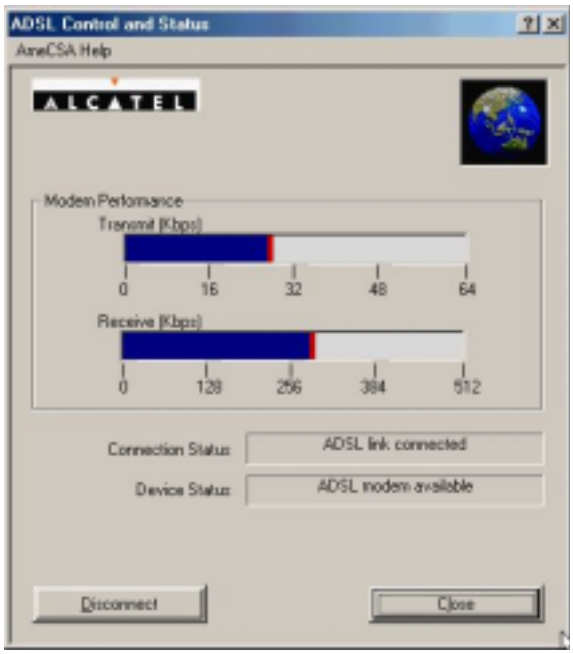
2. Check Transmit and Receive speed. If show your applied speed is OK, else ADSL is failed. The blue bar is mean data transferring.



5.3. MS Windows 2000

1. Double click the **DSL** icon on the right of Taskbar.

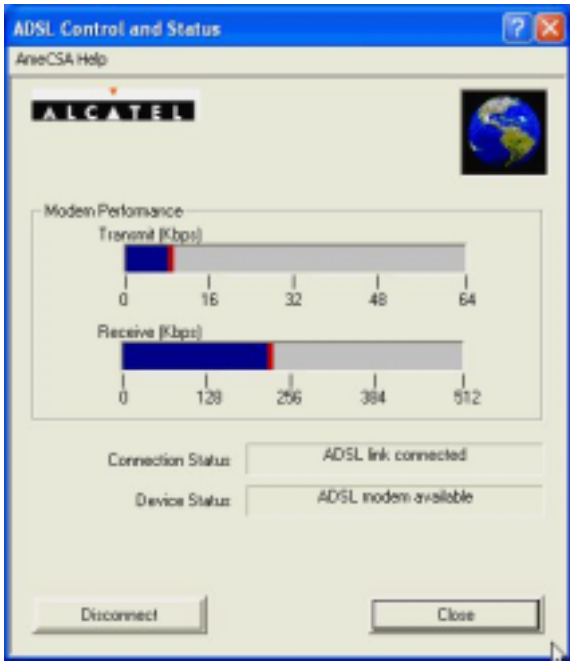
2. Check Transmit and Receive speed. If show your applied speed is OK, else ADSL is failed. The blue bar is mean data transferring.



5.4. MS Windows XP

1. Double click the **DSL** icon on the right of Taskbar.

2. Check Transmit and Receive speed. If show your applied speed is OK, else ADSL is failed. The blue bar is mean data transferring.



Chapter 6 Troubleshooting

6.1. Software

If your internet connection is not working, the following hints may be helpful. After trying these hints, if you still cannot make your connection work, it is recommended that you ask your service provide provider for assistance. To run troubleshooting on the system.

Step 1. Is the system tray CSA icon green?

Step 2. If it is not, try a restart of your PC. This may clear the problem.

Step 3. If the CSA icon color does not show green after performing the steps above, it is recommended to uninstall the software and re-install.

6.2. Hardware

If your internet connection is not working, the following hints may be helpful. After trying these hints, if you still cannot make your connection work, it is recommended that you ask your service provide provider for assistance. To run troubleshooting on the system.

Step 1. Check the telephone line connects to Modem jack properly.

Step 2. Check the USB cable connection between PC and Modem are properly.

Step 3. If the Modem 'LINK' LED blanking please wait for connection.

. Step 4 If the Modem 'DISK' LED keep on please feedback to your service provider.