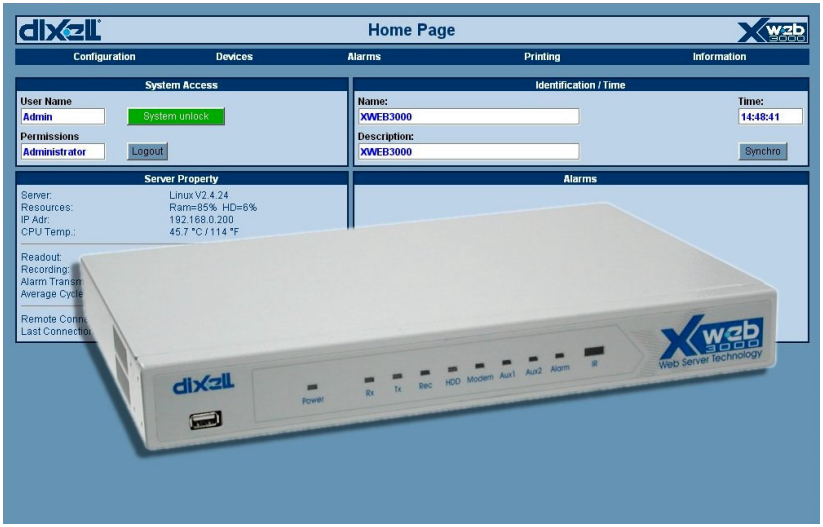

INSTALLATION GUIDE

Ver 1.1

WARNING:	**Use only modems supported by this monitoring units. Dixell S.p.a can accept no responsibility for possible damage due the usage of not supported modems.**

WARNING:	**Dixell S.p.a. reserves itself the right to alter this manual without notice. The last version available can be downloaded from the website.**

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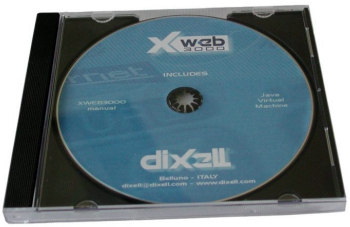
1 CHECK LIST

- The XWEB 3000 server unit.
- One power cord for power supply connection.
- A couple of brackets.
- Quick reference manual (Fast installation).
- One serial line adapter
- One CD Rom containing the Operating manual and software



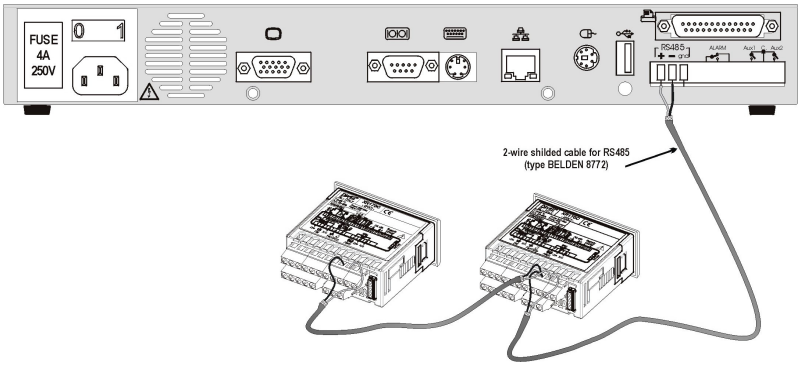
2 TO DO LIST

- Check if the power supply line match the XWEB 3000 specification (90~264 VAC 50~60Hz.).
- Connect the serial line RS 485 with the adapter provided.
- Plug-in monitor, keyboard and mouse (if needed) before turning on the unit.
- Plug-in RJ 45 network cable (not provided).

3 RS 485 CONNECTION

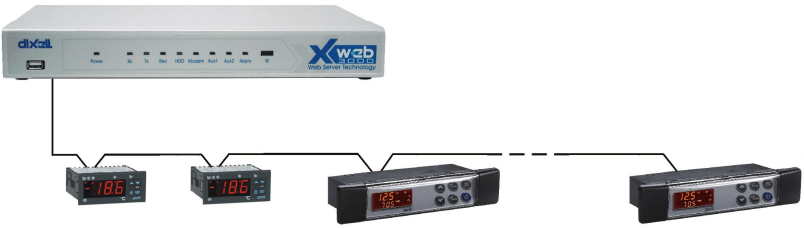
To be connected to the serial line all the Dixell Modbus instruments must be provided with direct RS485 terminals or the “TTL”-RS485 interface (XJRS485 or XJ485). Check the instrument manuals for more information. The RS485 line is mainly based on two polarised terminals. Please beware to respect the right sequence for all the devices connected to the serial line.
Follow these important advises:

- The RS485 serial line must reach all the instruments where they are installed.

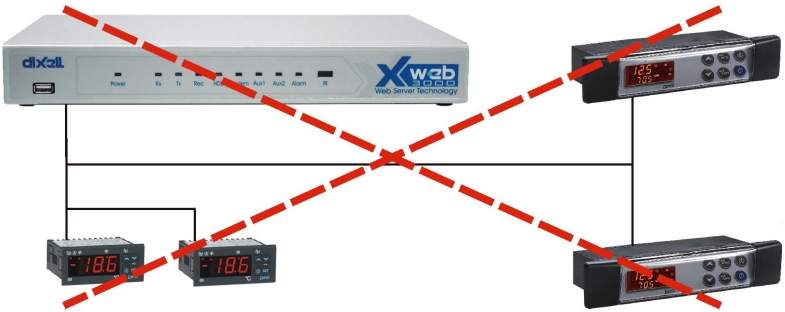


- Beware to the wire polarities when screwing them into the instrument terminals.
- The cable must have 2 or 3 wires with shield, minimum section 0,5mm^2 (eg. the BELDEN 8772).
- From the XWEB 3000 position the cable reaches all the instrument positions.
- Do not execute loops or derivations:

Right connection:



Wrong connection:



- Always keep the serial cable away from power cables.
- Always keep the serial cable away from Electro-magnetic or frequency sources.
- Do not connect shield to ground.
- Do not connect the “**Gnd**” terminal.
- Remember to draw a map of the line. This will help you to find errors if something is wrong.
- The instrument with RS485 have “**+**” and “**-**“ terminals, respect the polarity.
- To keep the line balanced it is necessary a 100 Ohm resistor at the end of the line (you ca use the RS 485+ and RS 485- terminals of the last instrument connected).

3.1 The TTL output

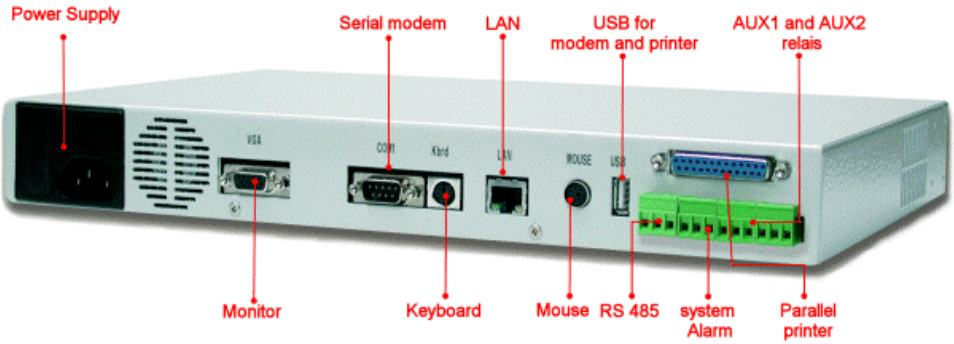
The instrument with RS485 on board do not need any kind of external interface module. For instruments with external interface: keep the TTL cable away from power cables or frequency sources. The XJ485 external interface must be connected with TTL cable to the instrument with TTL compatibility.

3.2 Serial address of the instruments

Each instrument must be defined by its unique address.
Check the address into the **Adr** parameter value. Take reference to the instruction manual of the instrument itself to find the right procedure to enter the programming and set the value.
The easiest way to work with the category functions is to set the addresses progressively for similar groups of instruments which have the same application.

4 Local connection with monitor, mouse and keyboard

On the back side, the XWEB 3000 is provided with the sockets for a monitor, a mouse and a keyboard. Please connect all the peripherals before powering-on the unit otherwise the system may fails to recognise them. This means that , for example, if you do not plug the monitor cable now, you won't see anything displayed on it later.
The unit can also work without these three elements therefore if the user intend to work just with the remote, he can definitively remove them after the setup operations. In any case inside XWEB 3000 is loaded a standard browser to allow the user setting up the unit.
If necessary check the instructions manual of each device connected to the unit.



The operative procedure to work with XWEB 3000 is the same for all connection method.

It is possible to connect to the unit via a single PC provided with LAN card, by using the net connector RJ 45 (LAN). Due to the PC-client power, this kind of connection is more suitable for the setup procedures.

IMPORTANT: the cable between the Server and the PC must be with crossing wires (“Bridge Cable”).

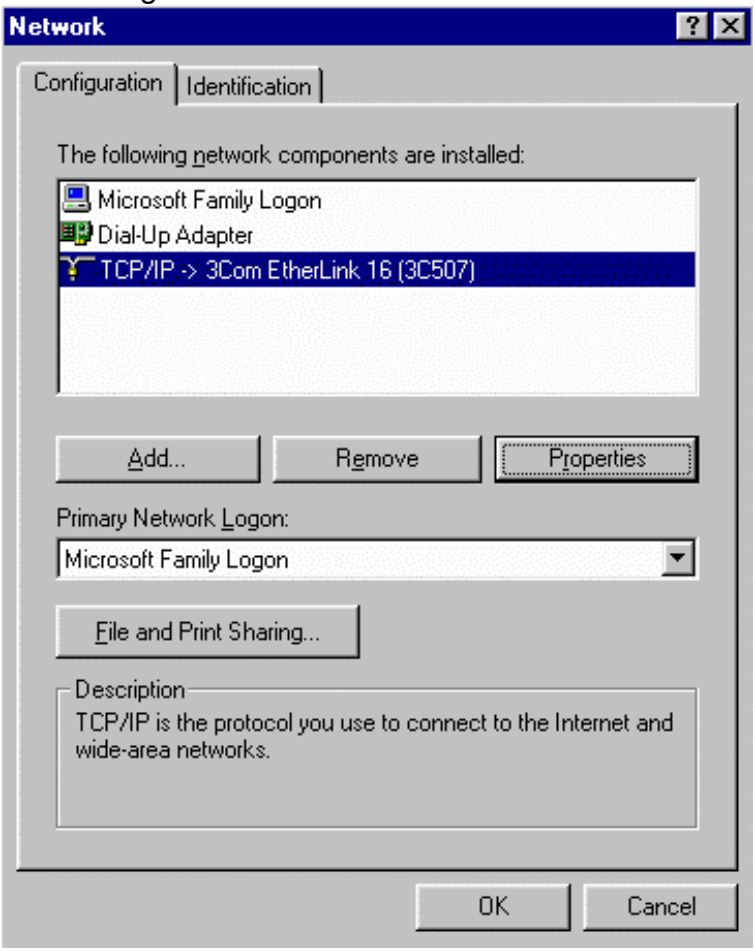
The connection procedure from the remote PC is describe in deep in this guide. You may need some changes to your PC network card, then you will be able to connect to XWEB 3000 via Ethernet line. Once you have finished setting up your network card, connection to XWEB 3000 is established simply by launching the Browser and inserting the default IP number of the unit **http://192.168.0.200** into the address bar.
Before going on reading, please take some moments to write down your PC network setup, may be we are going to change it. If the IP address of your PC belong to the hierarchy 192.168.0.XYZ (where XYZ represent a number between 1 and 254), you can reach XWEB 3000 simply plugging in the network cable.

4.1 HOW TO SETUP YOUR NETWORK CARD

Windows 98 and ME TCP/IP Setup pg.12
Windows 2000 TCP/IP Setup pg.16
Windows XP TCP/IP Setup pg.18

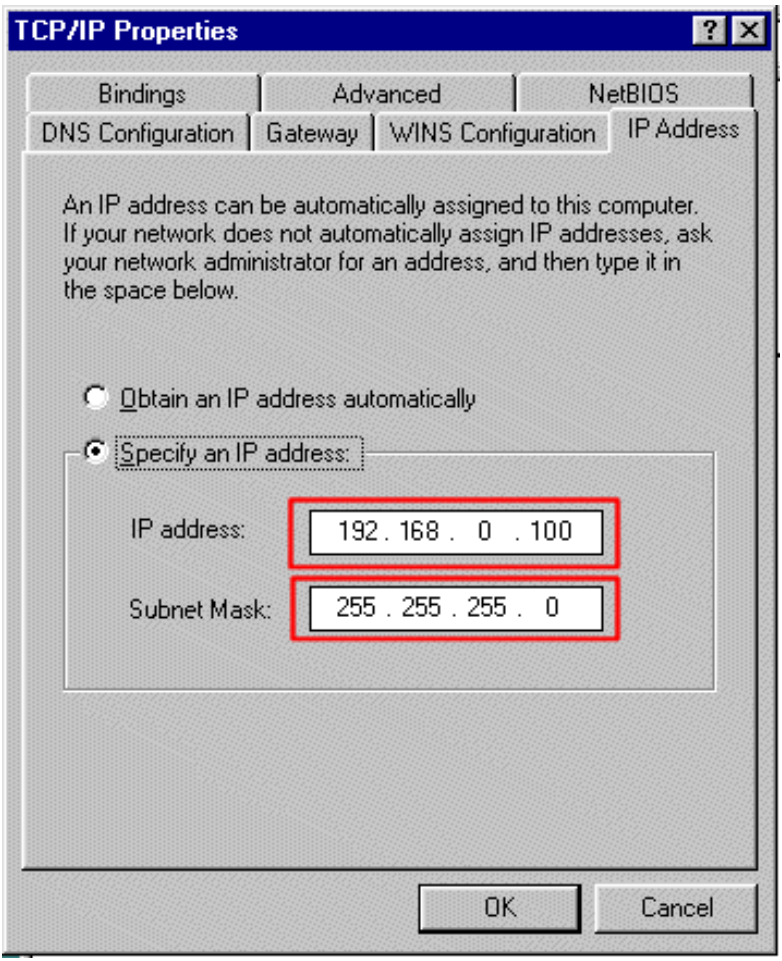
4.1.1 WINDOWS 98 AND ME TCP/IP SETUP

On the desktop, select **My** Computer -> Control Panel -> Network. Choose the Configuration tab.

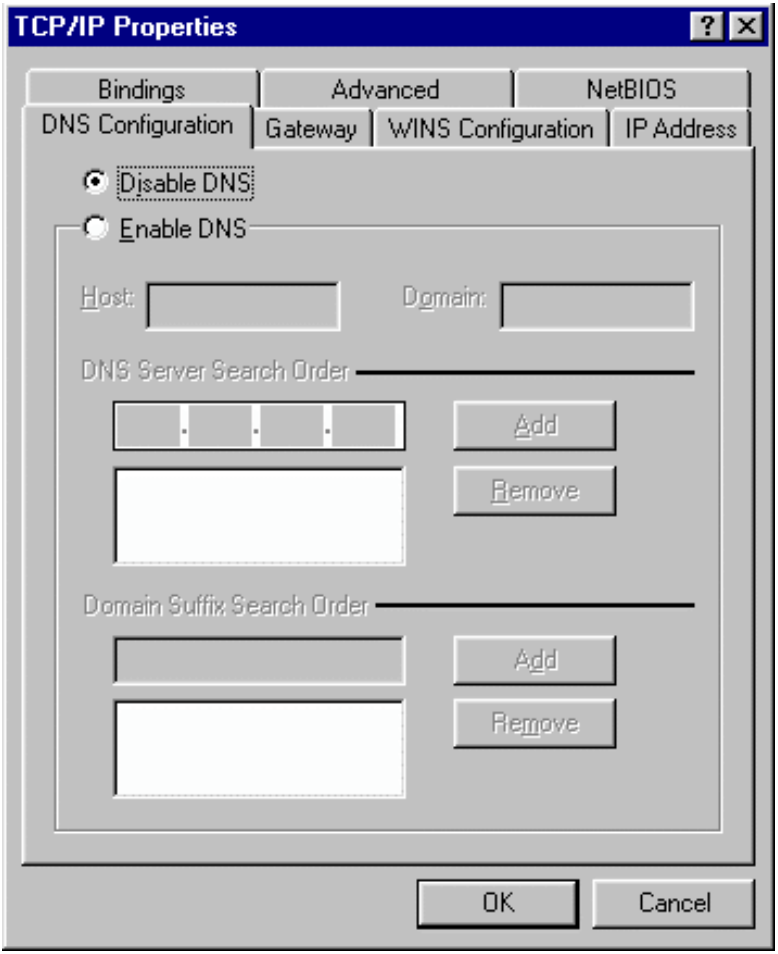


Highlight the TCP/IP associated with your Ethernet card and choose Properties. The TCP/IP Properties window will open. On each tab,

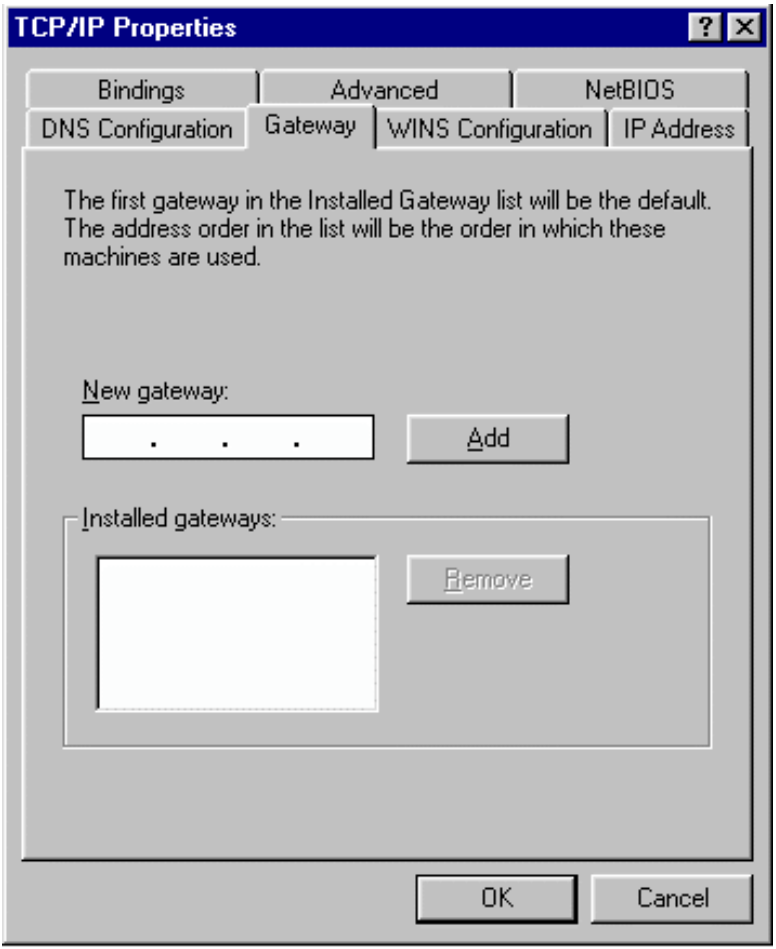
make the following settings.
Choose the IP Address tab.



Select radio button “Specify an IP address” and compile the fields as the image above. Then go to the DNS tab an choose the radio button “Disable DNS”.



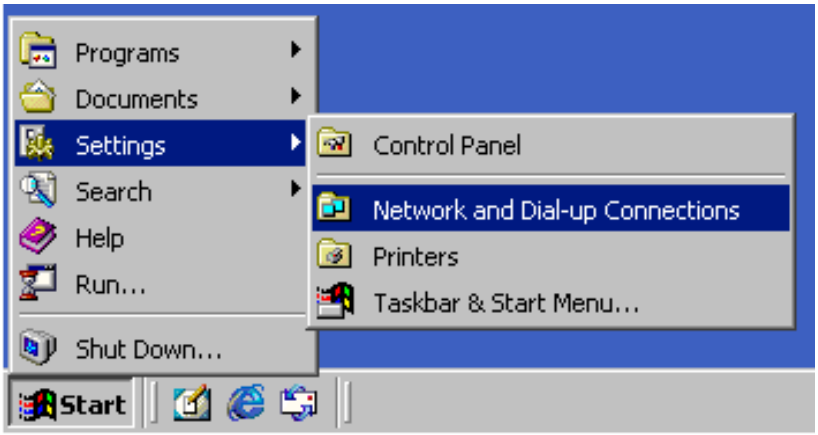
Go to gateway and delete any entry.



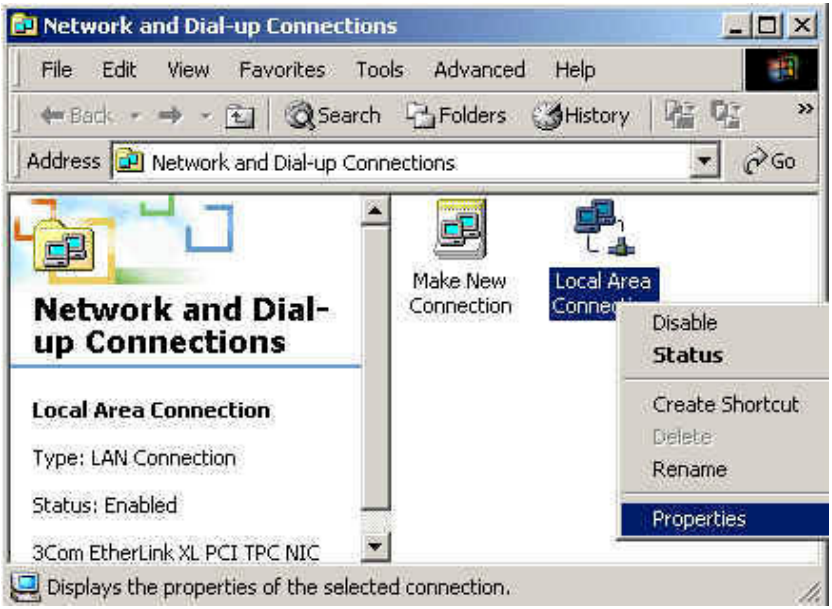
Push Ok button, Windows will ask you to make a reboot. Choose ok and wait while system is rebooting.

4.1.2 WINDOWS 2000 TCP/IP SETUP

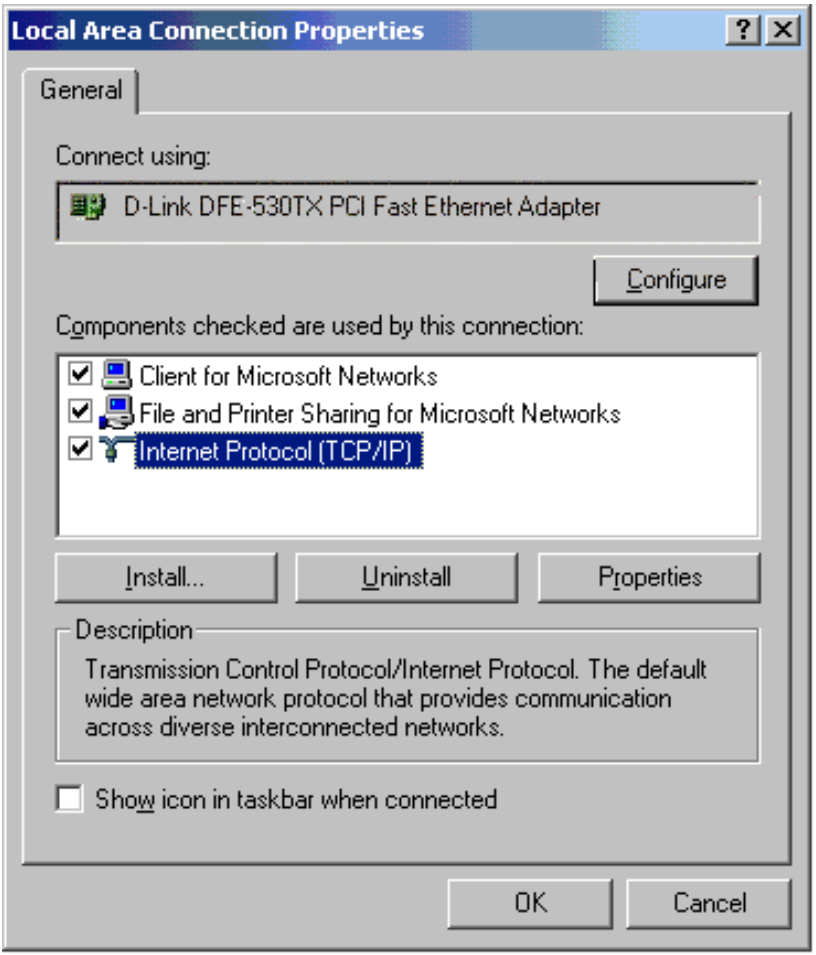
Go to **Start -> Settings** -> **Network and Dial-up Connections**:



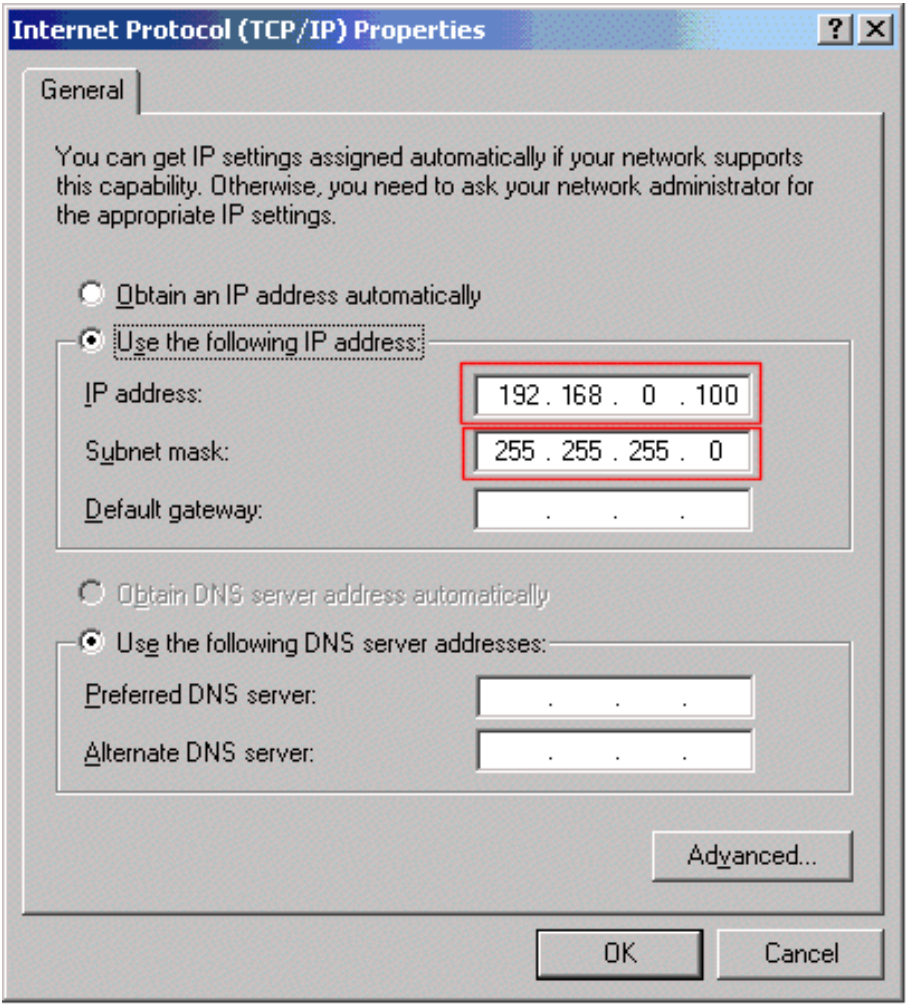
following window should appear:



Right-click the network connection associated with your network card, and then click **Properties**. The following window should appear:



Select “Internet Protocol (TCP/IP)”, then properties. The following window should appear:



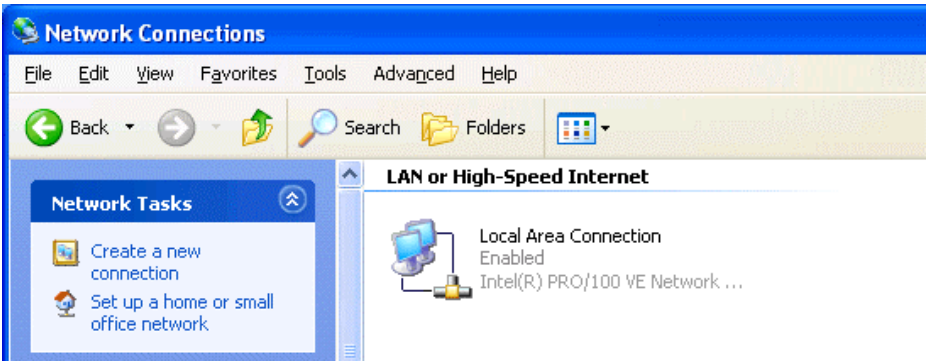
Select radio button “Use the following IP address” and compile the fields as the image above. Push “OK” button

4.1.3 WINDOWS XP TCP/IP SETUP

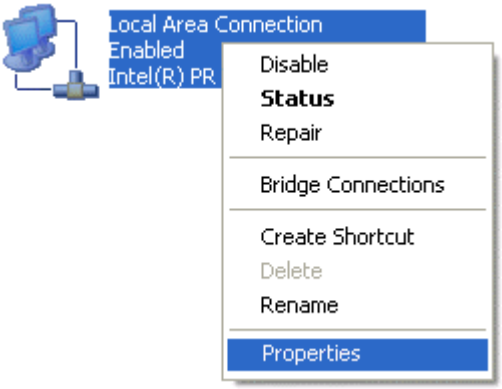
Click on Start button, chose Control panel, click on “Network and internet connections” icon:

Then chose “Network connections”:

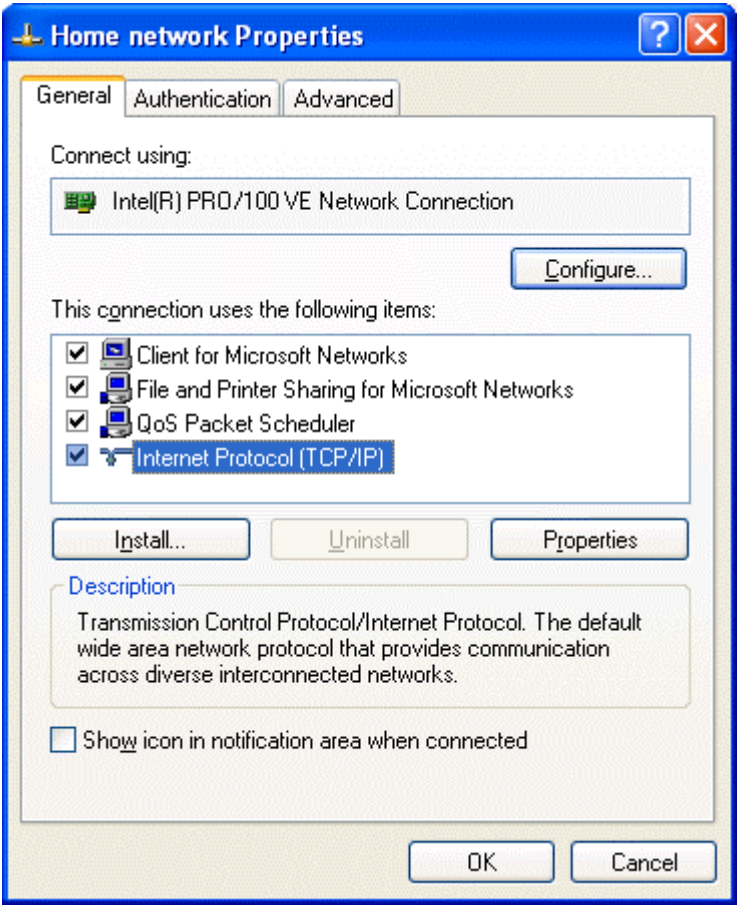
The following windows will appear:



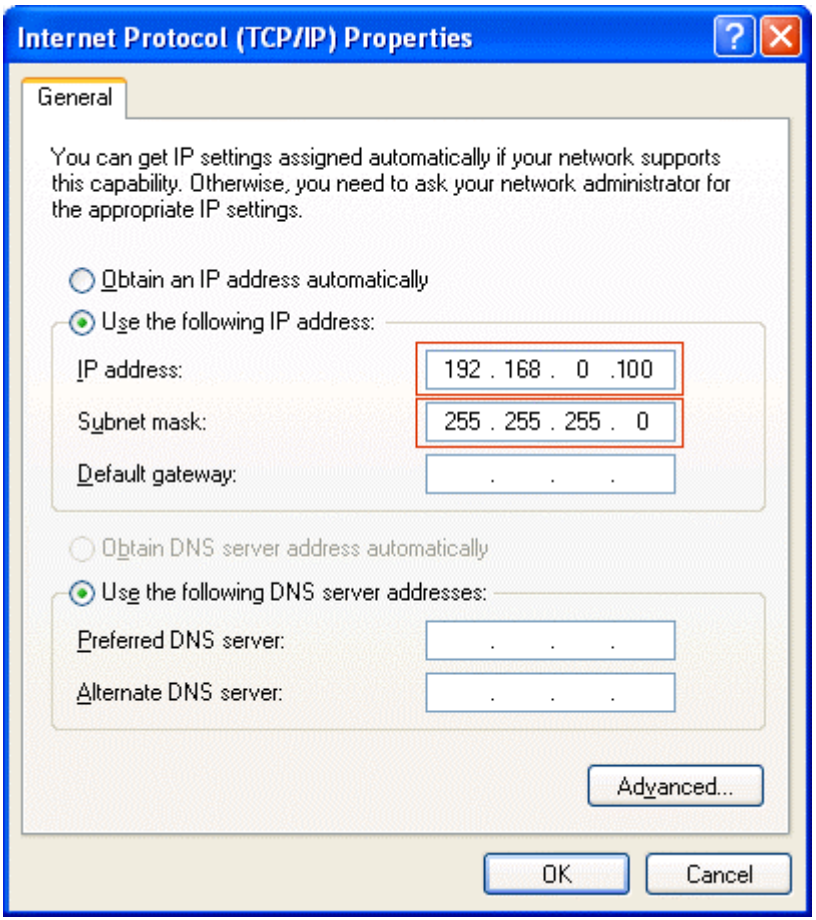
Right mouse click on network interface icon, then chose “Properties”:



The following windows will appear:



Select “Internet Protocol (TCP/IP)”, then click on Properties. The following windows will appear:

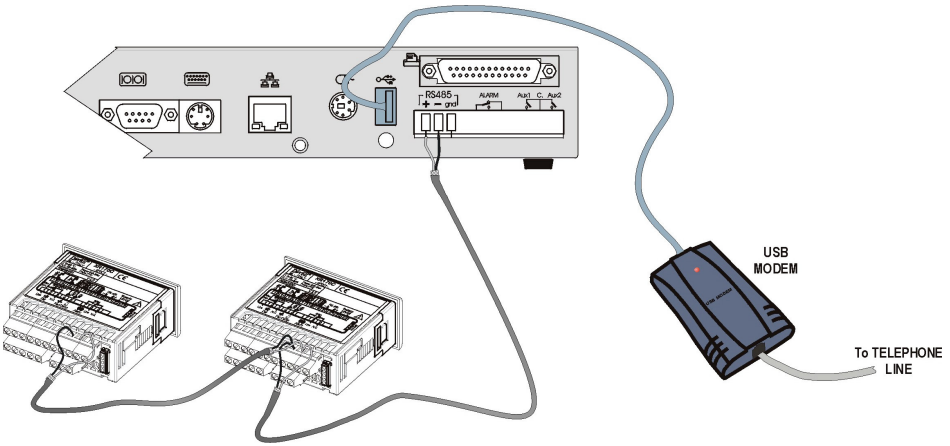

Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 .100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

5 Modem connection (“or point to point connection”)

It represents the most common method where the LAN (intranet / Ethernet / internet) is not available.
It is strongly advised to use a dedicated telephone line.

IMPORTANT: Use exclusively modem devices approved by Dixell.
Remember that many modems are not compatible with Linux.
The list of compatible models can be found under the menu:
Configuration – System - Modem.

USB Modem (recommended).
Connect the USB Modem to the USB Port on the back side using the modem cable commonly included into the modem packaging itself. There is no need to give power supply to the modem because the Server provides it through the USB port.
The modem reset is directly controlled by the XWEB 3000 Server through the USB port by turning off and then on the modem device.
Connect the modem to the telephone line with the phone cable included into the modem packaging. Remember to check if there is a switching machine.
The connection procedure is divided in two parts. In the first part it is necessary to create the Remote Access, in your PC, set with the telephone number of the line where the XWEB 3000 is connected to. You have to use Dixell as Username and Password.
The second is the procedure you will ever use: after launching the new Remote Access that will engage the line through the modem, start the Browser from your PC and insert the address **http://192.168.1.200** into Explorer/Netscape address bar.


RS485
+ - gnd
ALARM
Aux1
C.
Aux2
USB
MODEM
To TELEPHONE
LINE

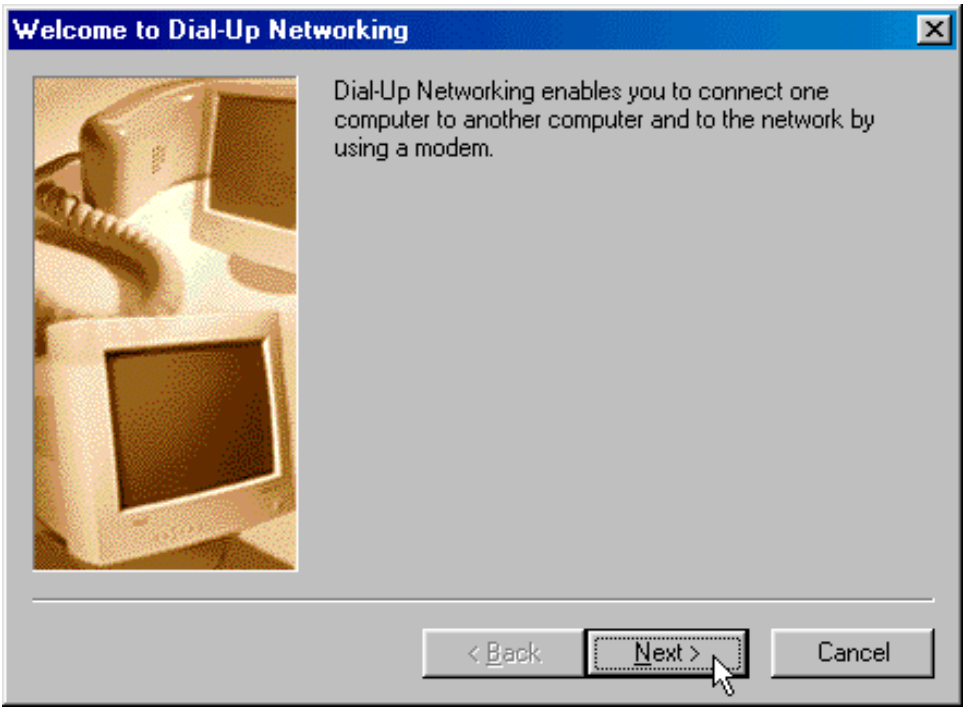
5.1 HOW TO SETUP a dial-up connection

Setting up dial-up connection for windows 98 pg.25
Setting up dial-up connection for windows me pg.31
setting up dial-up connection for windows 2000 pg.39
SETTING UP dial-up connection for windows XP pg.52

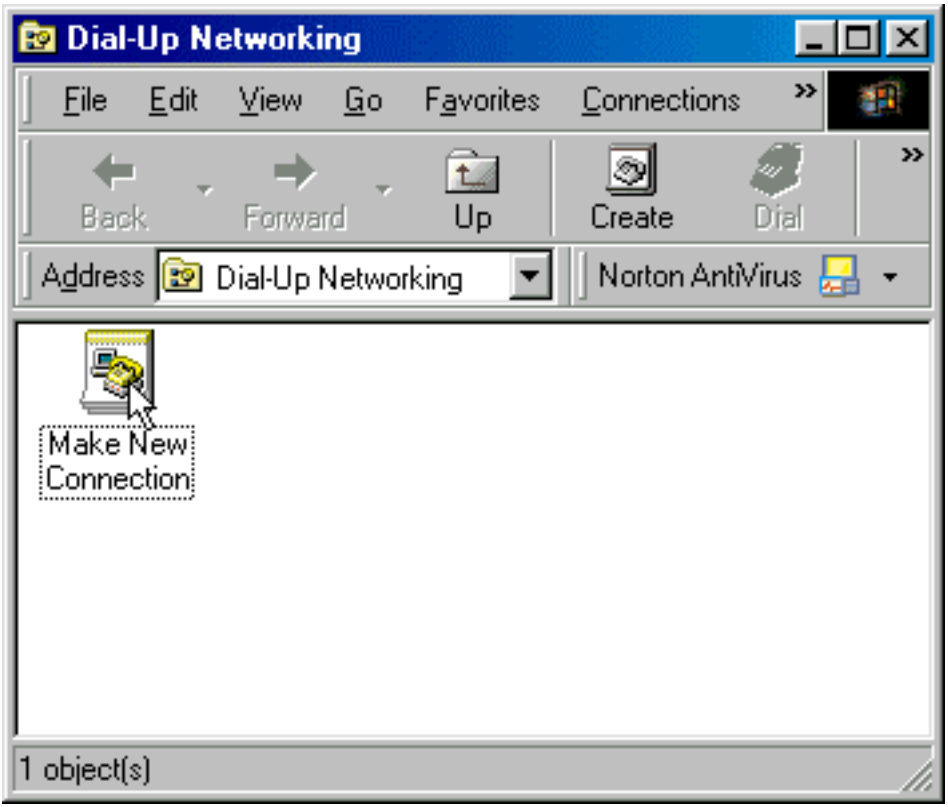
5.1.1 SETTING UP DIAL-UP CONNECTION FOR WINDOWS 98

1. Double-click on the "My Computer" icon on your Desktop, then double-click on "Dial-Up Networking".

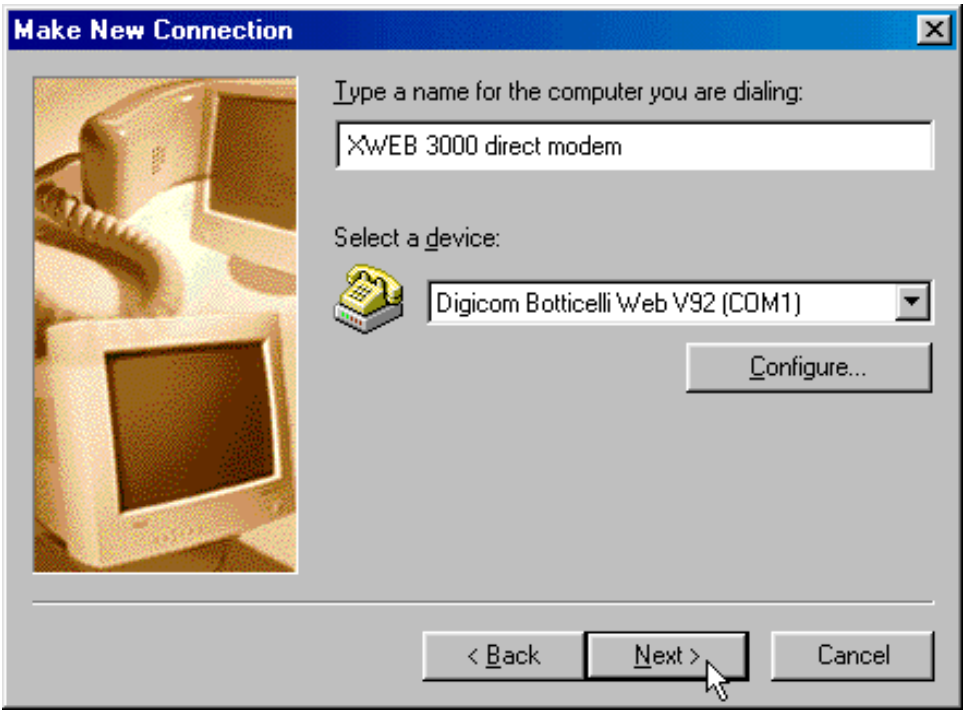
2. If this is the first time Dial-Up Networking has been run, the Welcome screen will open. Click on "Next" and proceed to step 4.



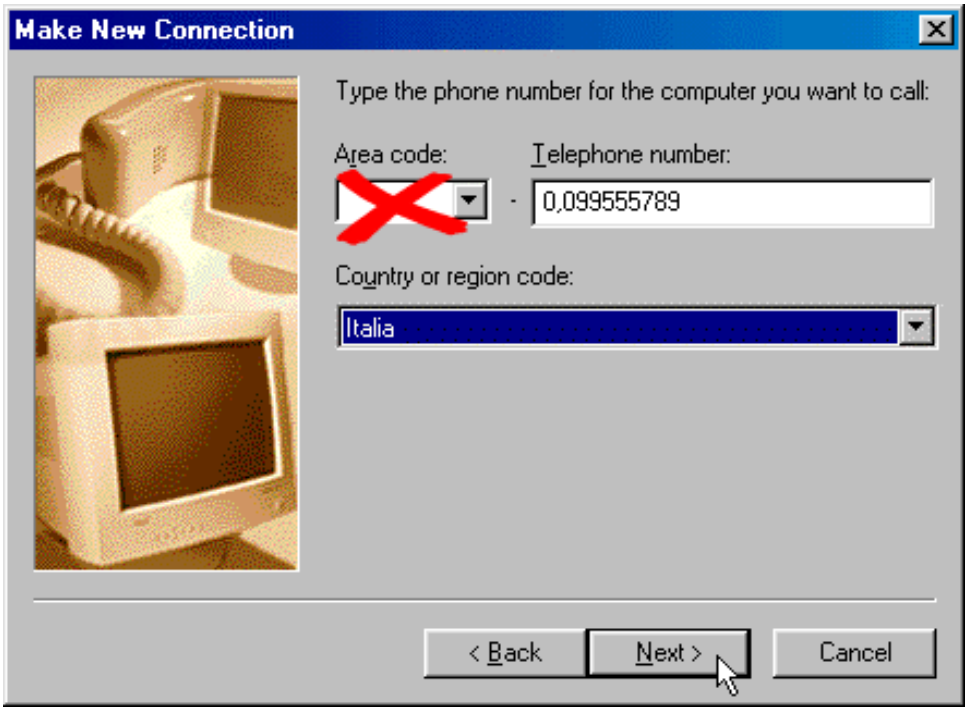
3. If you don't get the Welcome screen, double-click on "Make New Connection".



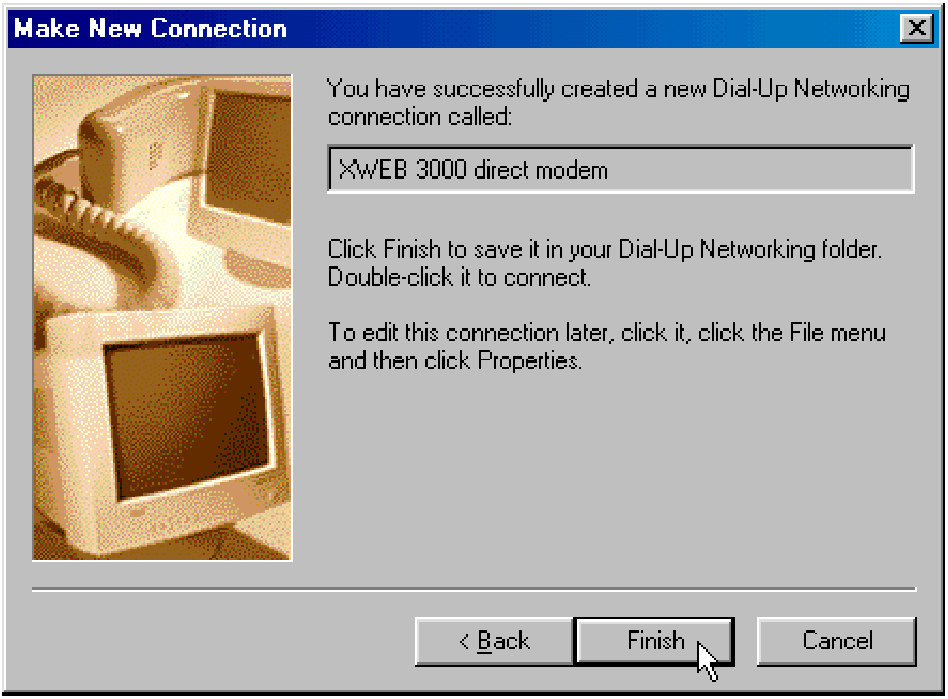
4. Type “XWEB 3000 DIRECT MODEM” in the first box. When you finish the New Connection wizard, the connection icon will be named “ XWEB 3000 DIRECT MODEM ”. Chose “digicom Botticelli web” or another modem approved dy Dixell.
Click “Next".



5. Do not type the area code, insert telephone number with the area code of XWEB 3000 as a prefix.
E.G: If telephone number is 555789 and area code is 099, put this Telephone number: 099555789.
If there is a switching machine and you have to dial a digit to get the line (0 or 9 for example, it depends on the switching machine), put this telephone number: 0, 099555789 or 9, 099555789. Chose your country.
Click "Next".

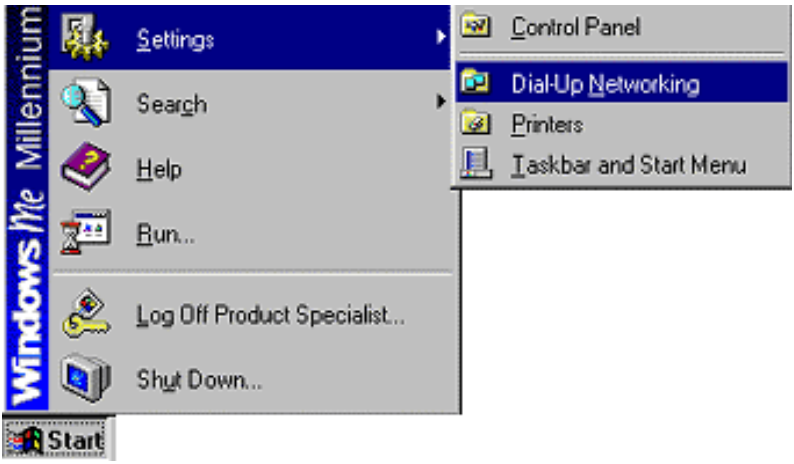


6.Click "Finish".


Make New Connection
You have successfully created a new Dial-Up Networking connection called:
XWEB 3000 direct modem
Click Finish to save it in your Dial-Up Networking folder. Double-click it to connect.
To edit this connection later, click it, click the File menu and then click Properties.
< Back
Finish
Cancel

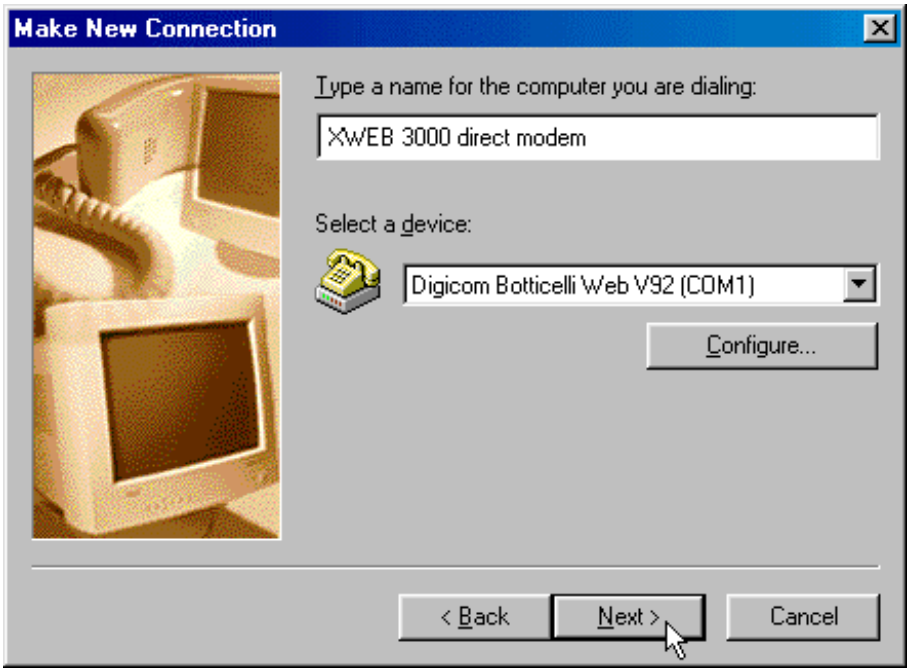
5.1.2 SETTING UP DIAL-UP CONNECTION FOR WINDOWS ME

1. From the Start menu, click Settings, and choose Dial-Up Networking.

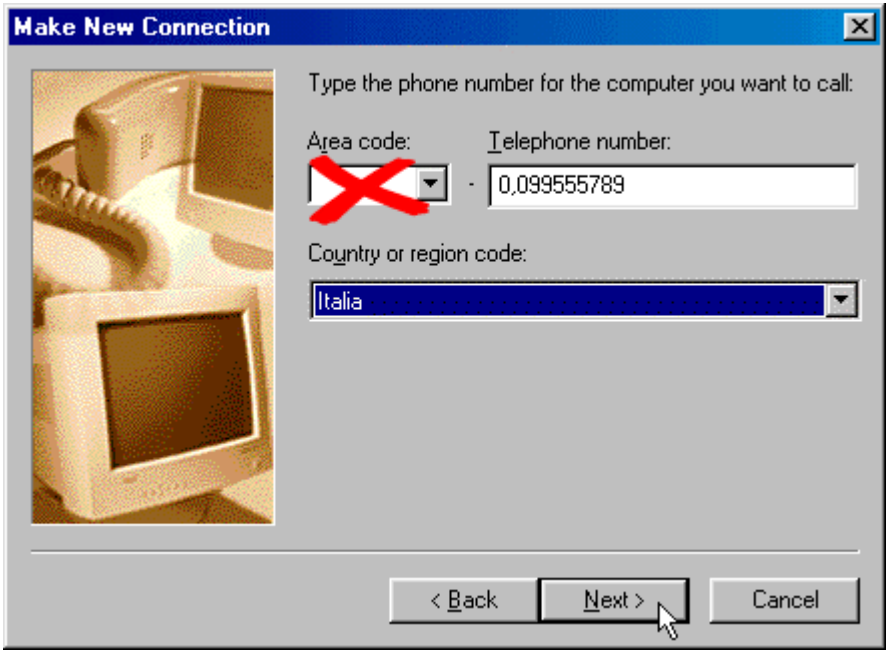


2. Double-click the Make New Connection icon.

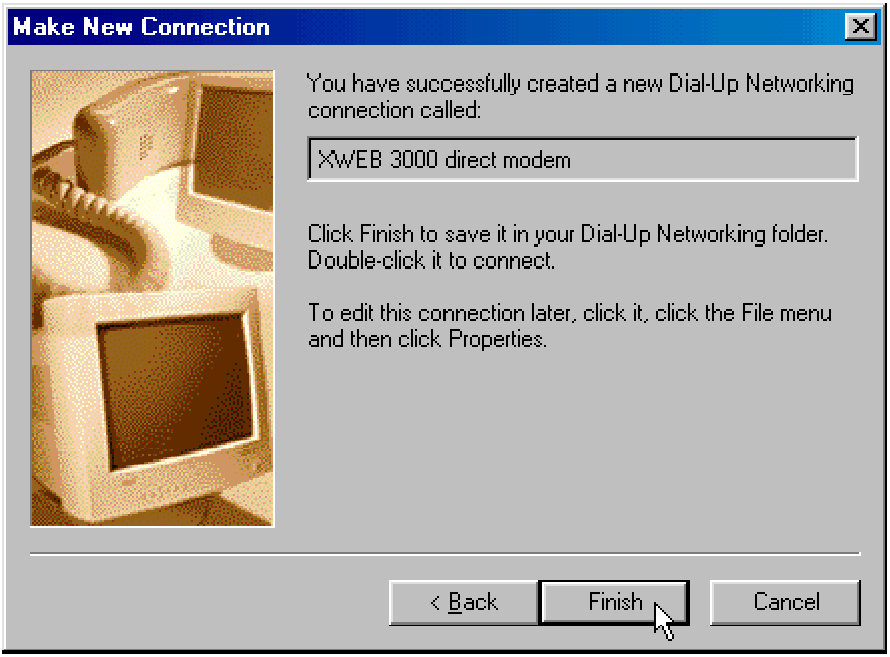
3. In the Type a name for the computer you are dialling field, type XWEB3000 DIRECT MODEM.
4. Click the down arrow on the Select a device drop-down list and choose “digicom botticelli web” or another modem approved dy Dixell.
5.Click the Next button.



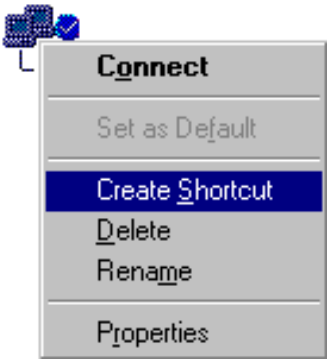
6. Do not type the area code, insert telephone number with the area code of XWEB 3000 as a prefix.
E.G: If telephone number is 555789 and area code is 099, put this Telephone number: 099555789.
If there is a switching machine and you have to dial a digit to get the line (0 or 9 for example, it depends on the switching machine), put this telephone number: 0, 099555789 or 9, 099555789.Chose your country.
7.Click the Next button.



8. Click the Finish button.

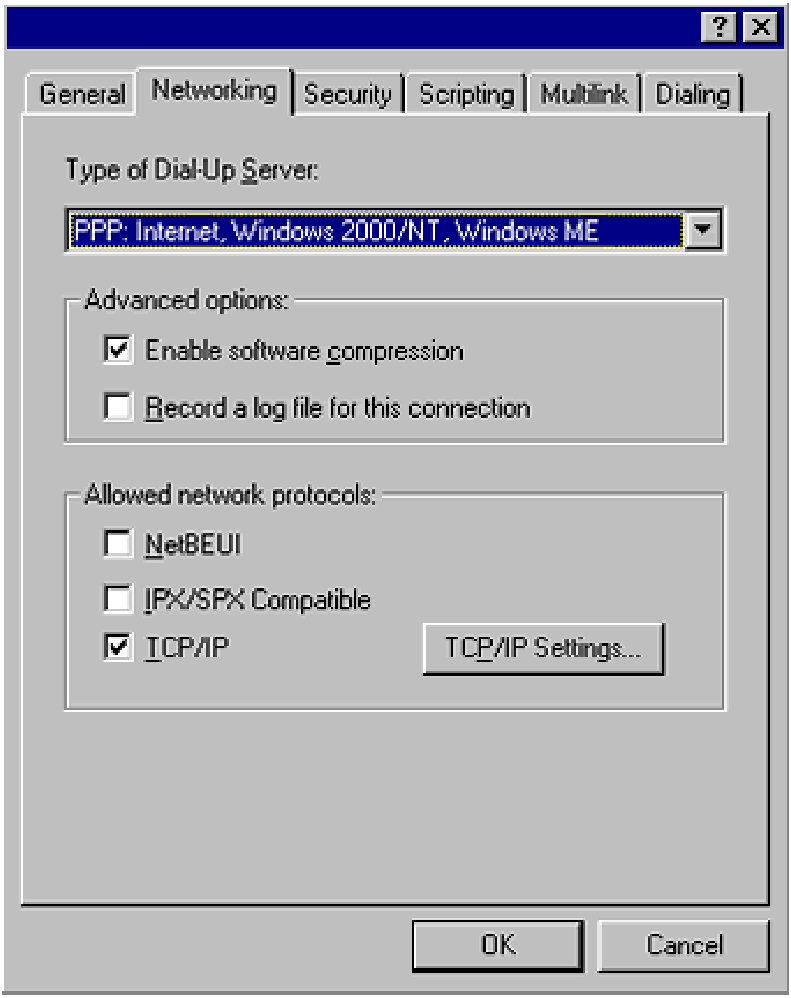


9. Click the XWEB 3000 DIRECT MODEM icon with your right mouse button, then choose Properties.

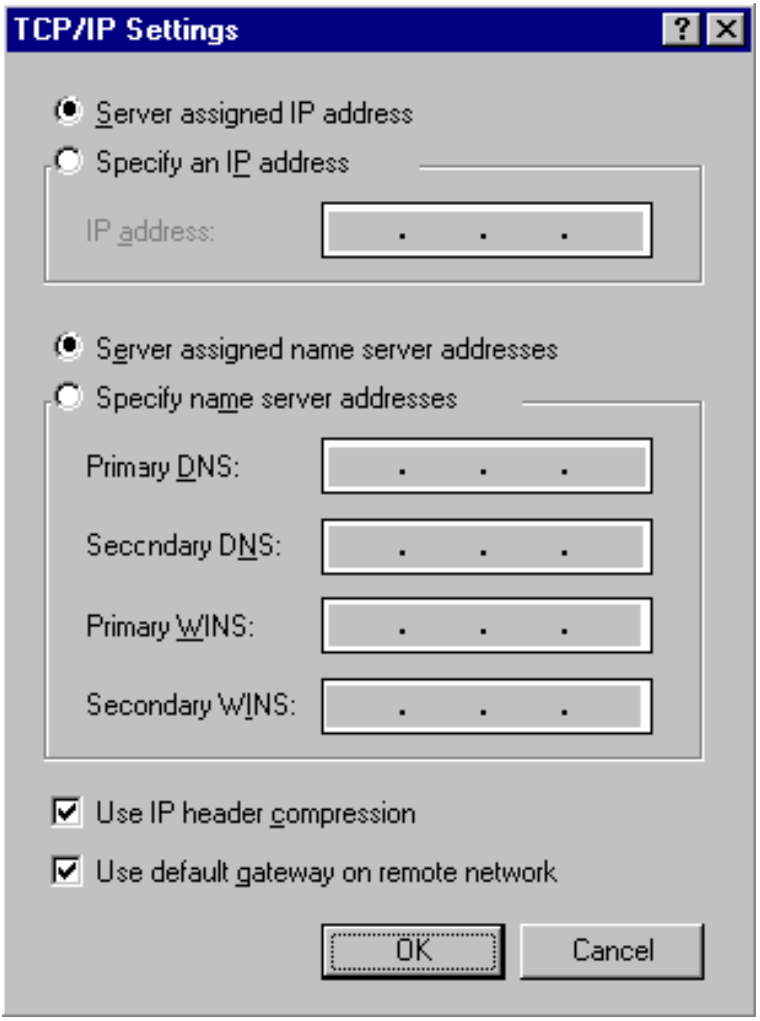


10. Click on the Networking tab.
11. Click the down arrow on the Type of Dial-Up Server: drop-down list and choose PPP: Internet, Windows 2000/NT, Windows Me.
12. Uncheck all the boxes except for Enable software compression and TCP/IP.

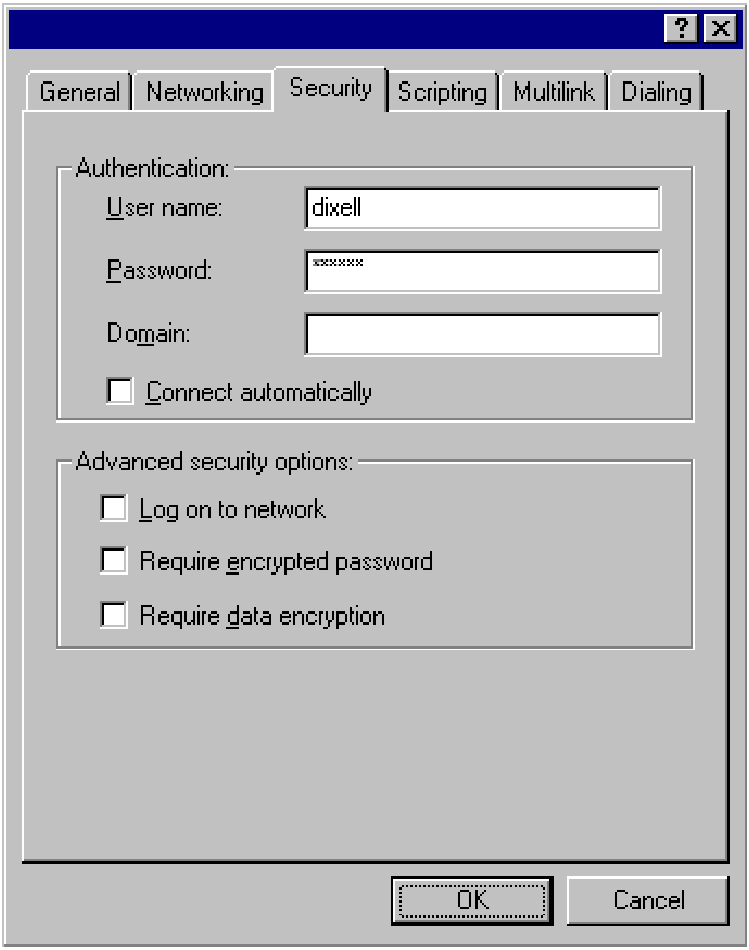
13. Click the TCP/IP Settings... button.



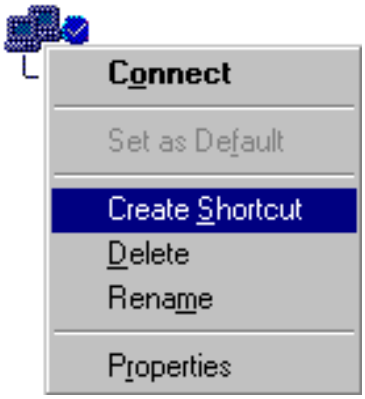
14. Select Server assigned IP address
15. Select Server assigned name server addresses.
16. Click the OK button.



17. Click on the Security tab.
18. In the User name: dixell
19. In the Password: dixell
20. Click the OK button.



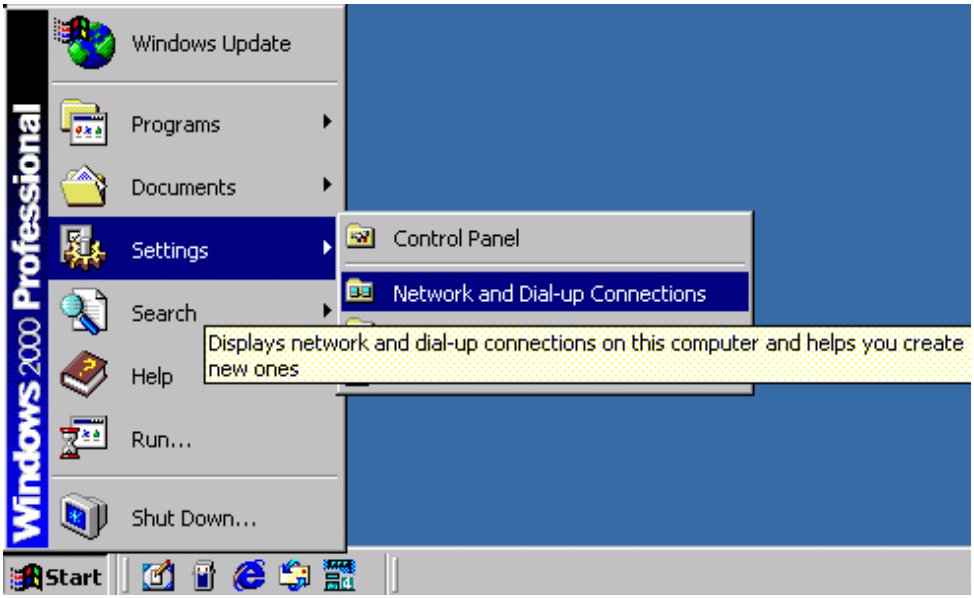
21. Click the XWEB 3000 DIRECT MODEM icon with your right mouse button, then choose Create Shortcut.



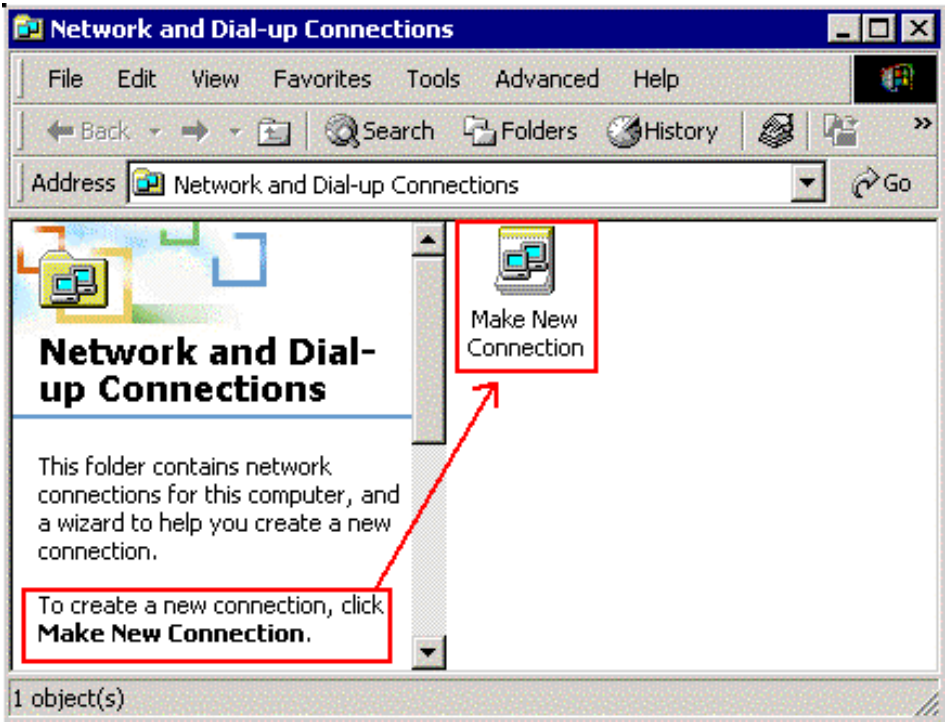
22. Click the Yes button.

5.1.3 SETTING UP DIAL-UP CONNECTION FOR WINDOWS 2000

Start-Menu "*Settings*", then "*Network and Dial-up Connections*".

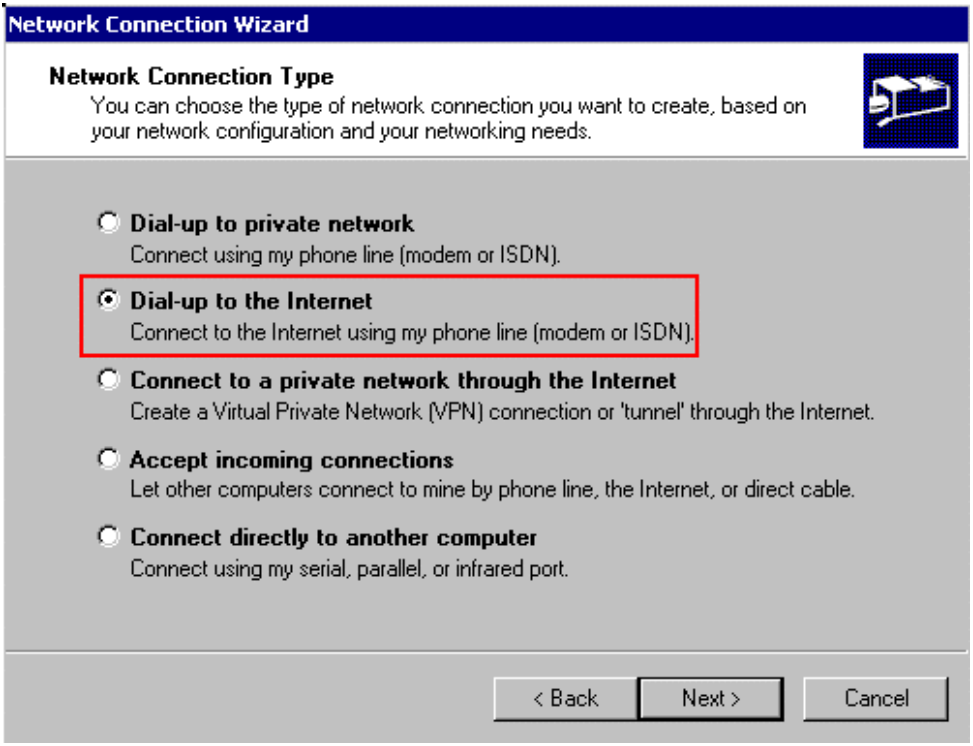


Select to "Make a New Connection"

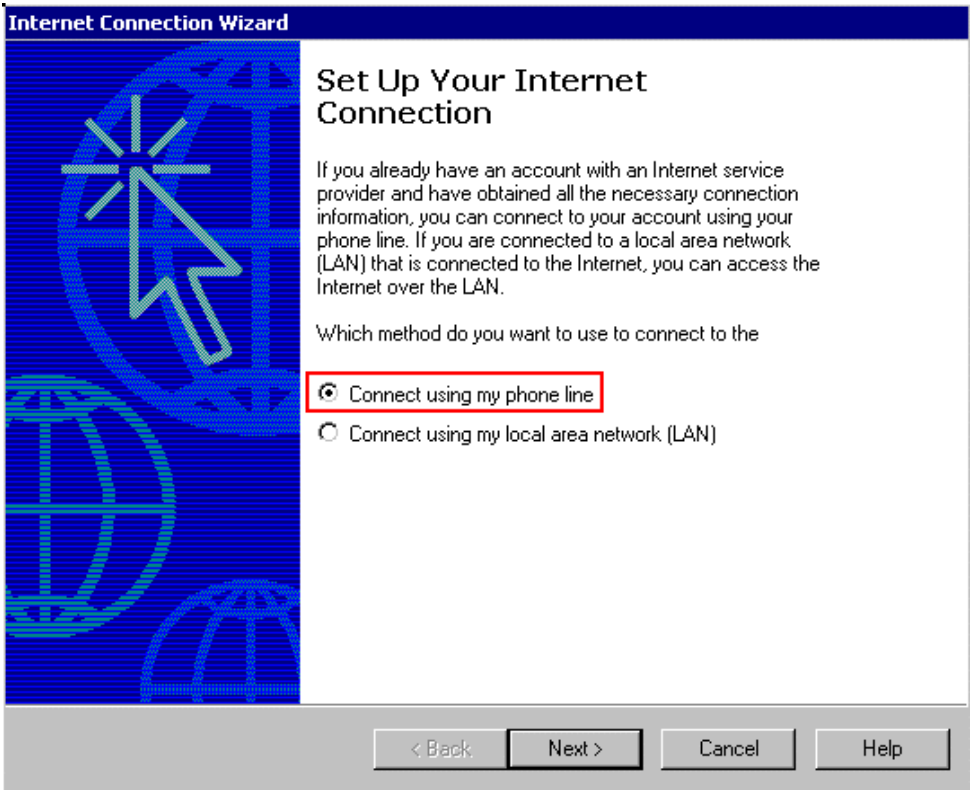


This starts up the "Network Connection Wizard".
Continue with "Next"

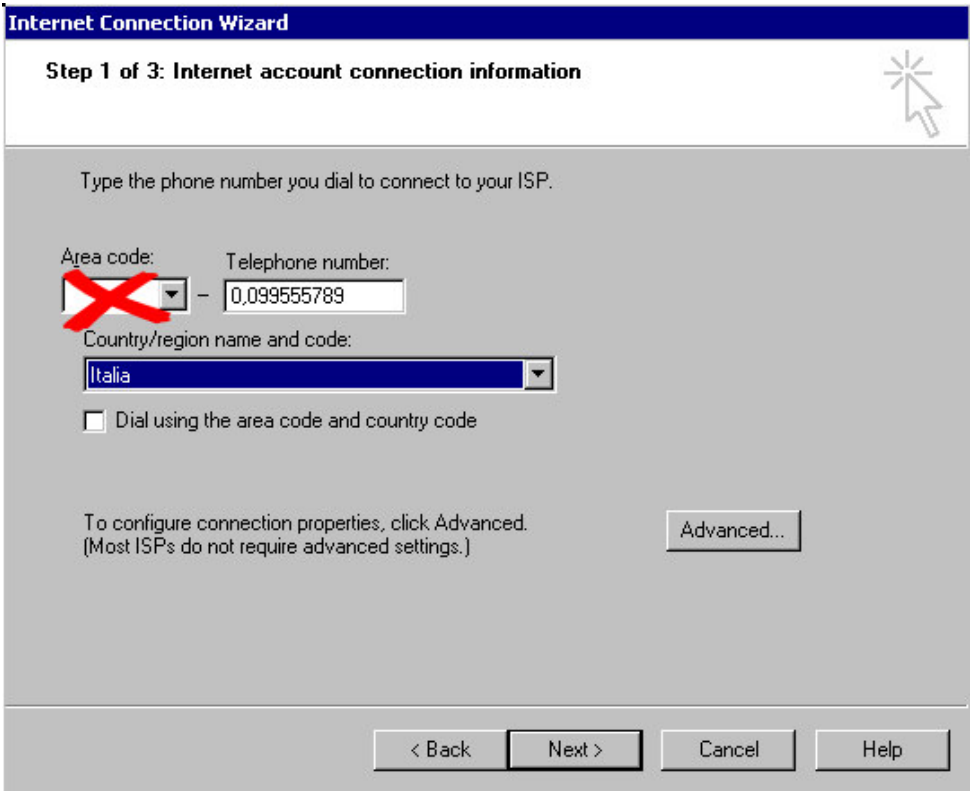
Chose “Dial up to the Internet"



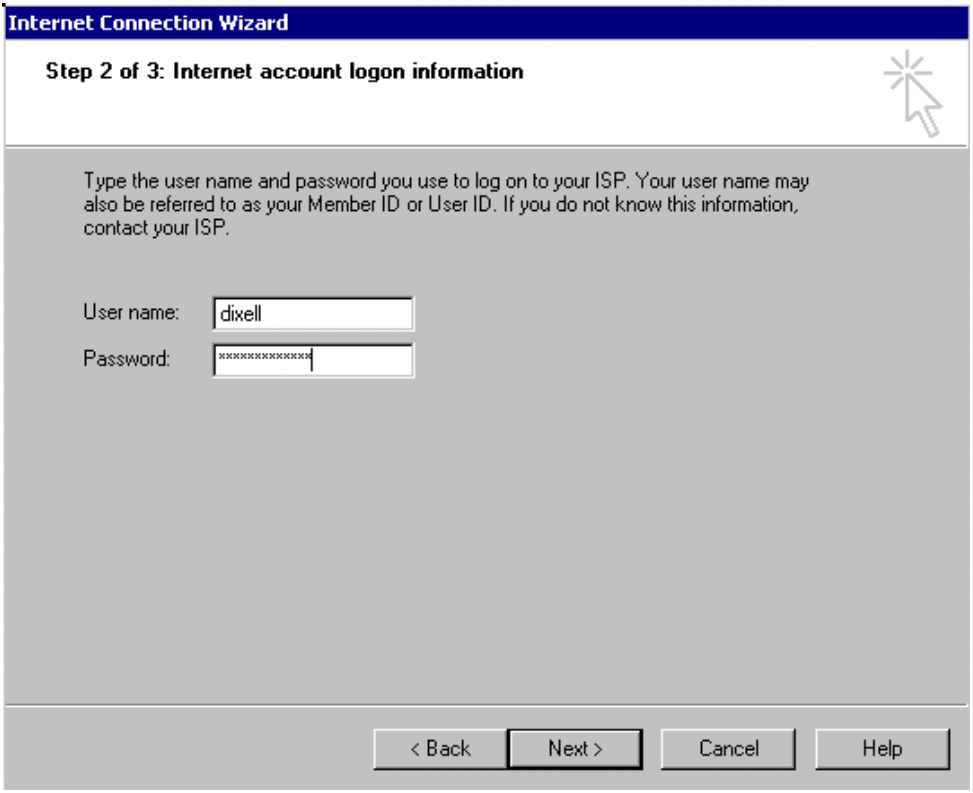
Choose “Connect using my phone line”:



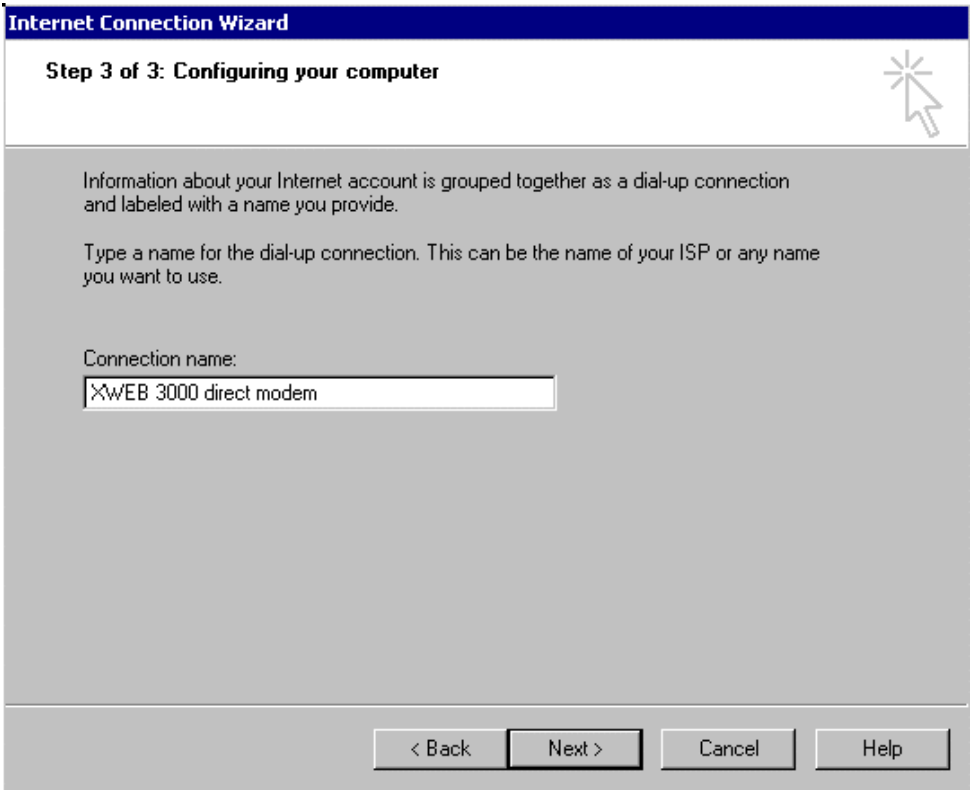
Do not type the area code, insert telephone number with the area code of XWEB 3000 as a prefix.
E.G: If telephone number is 555789 and area code is 099, put this Telephone number: 099555789.
If there is a switching machine and you have to dial a digit to get the line (0 or 9 for example, it depends on the switching machine), put this telephone number: 0, 099555789 or 9, 099555789.Chose your country.
Click the **Next** button.



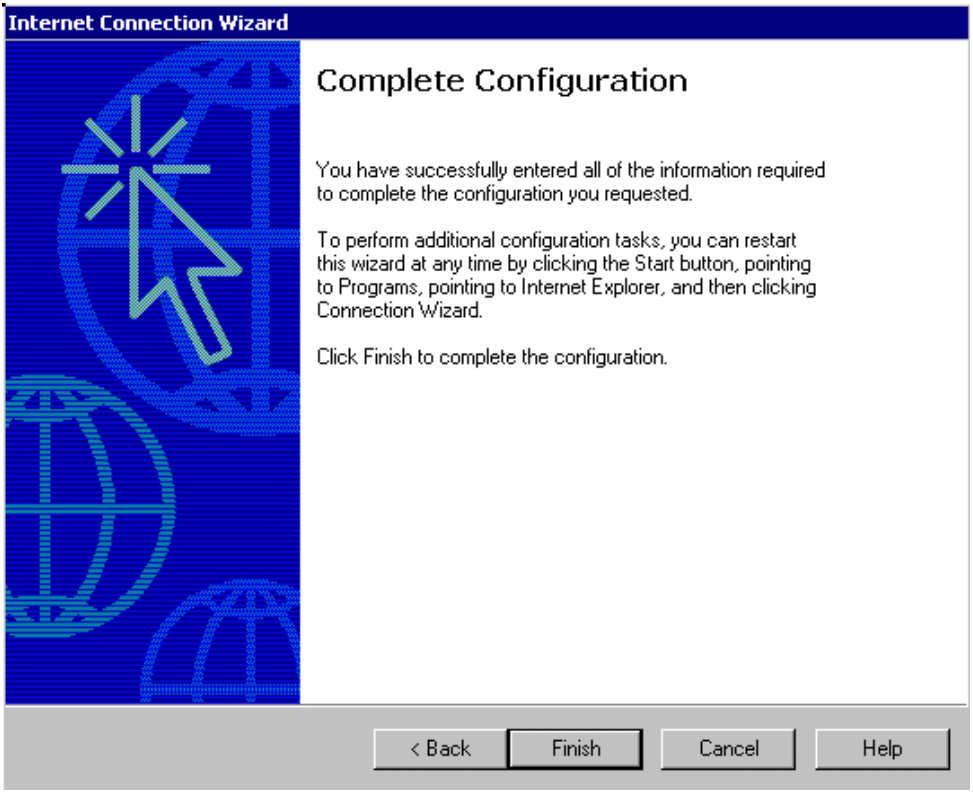
The User name and Password is dixell.



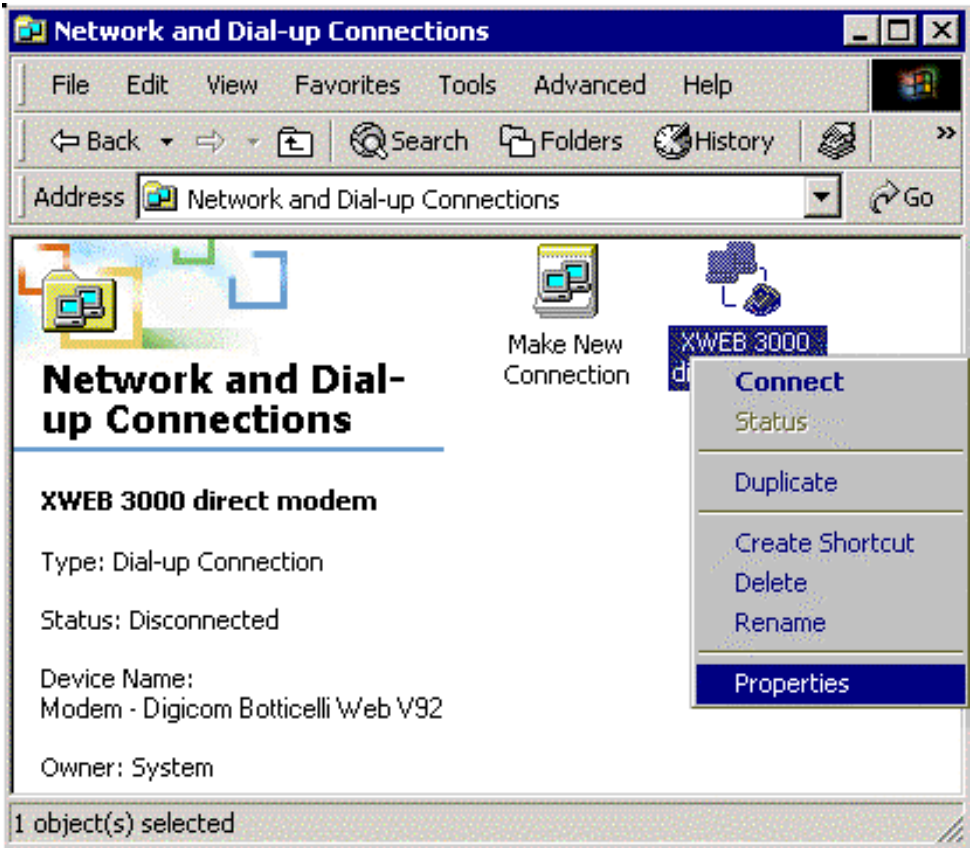
As connection name use “XWEB 3000 direct modem”:



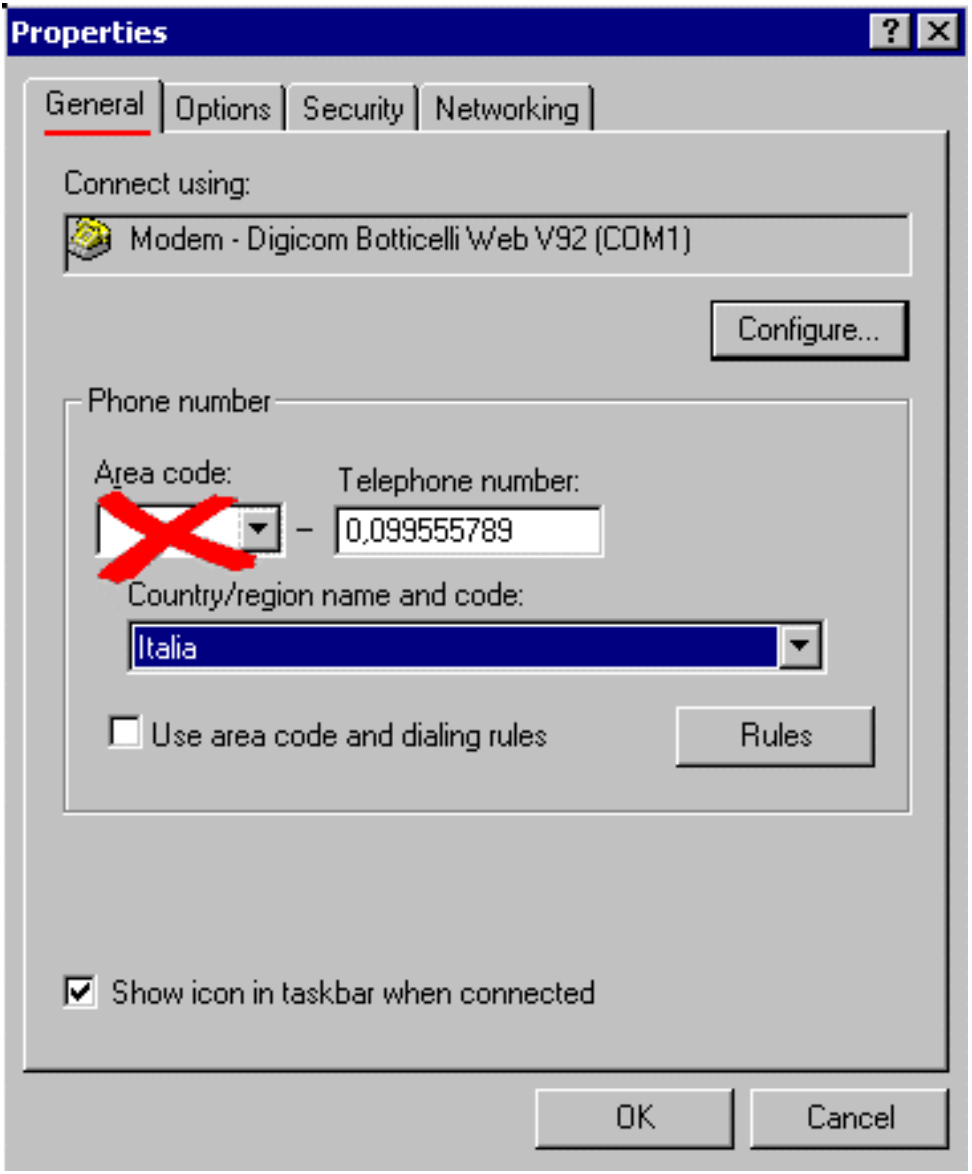
First part is done.



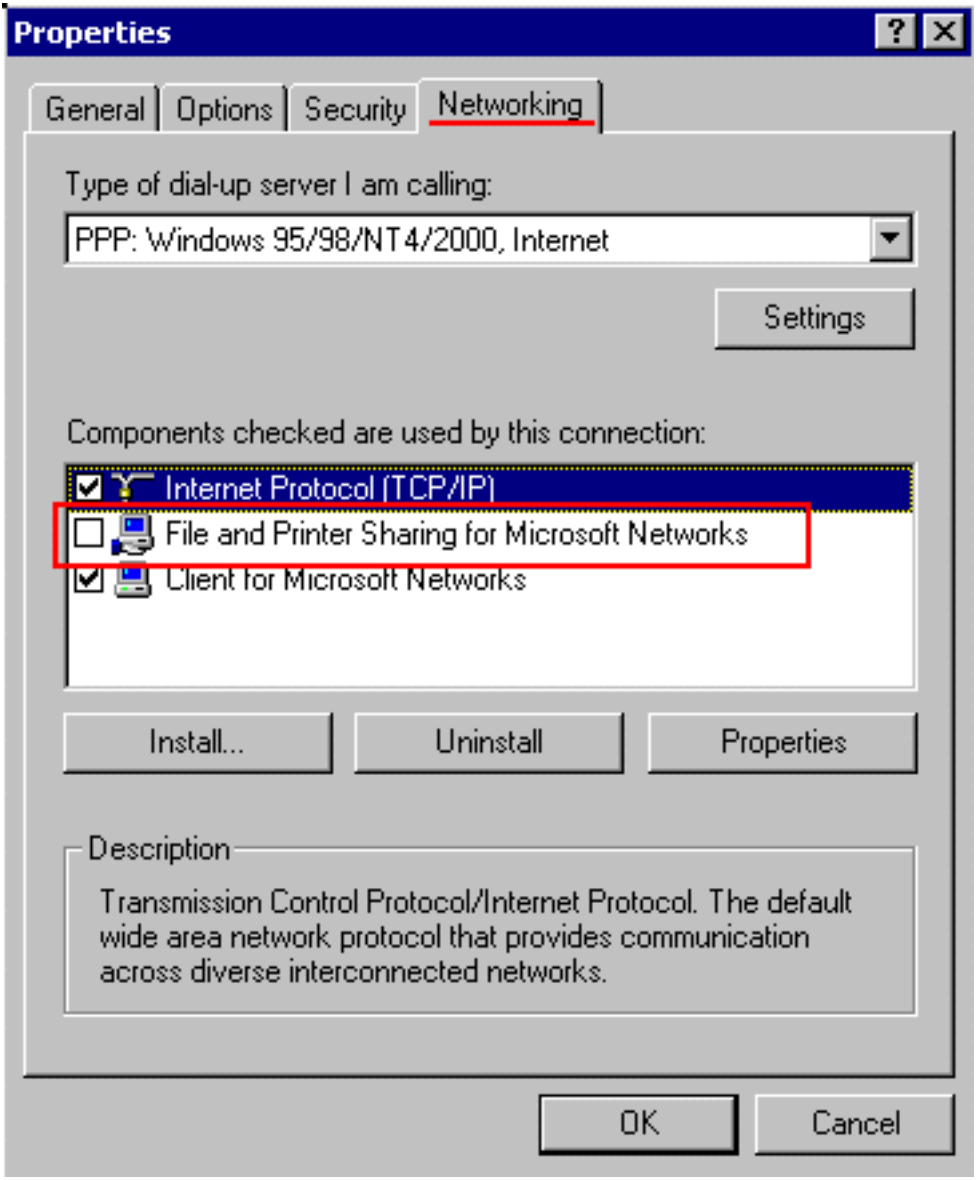
Now you will found a new icon in your network directory:



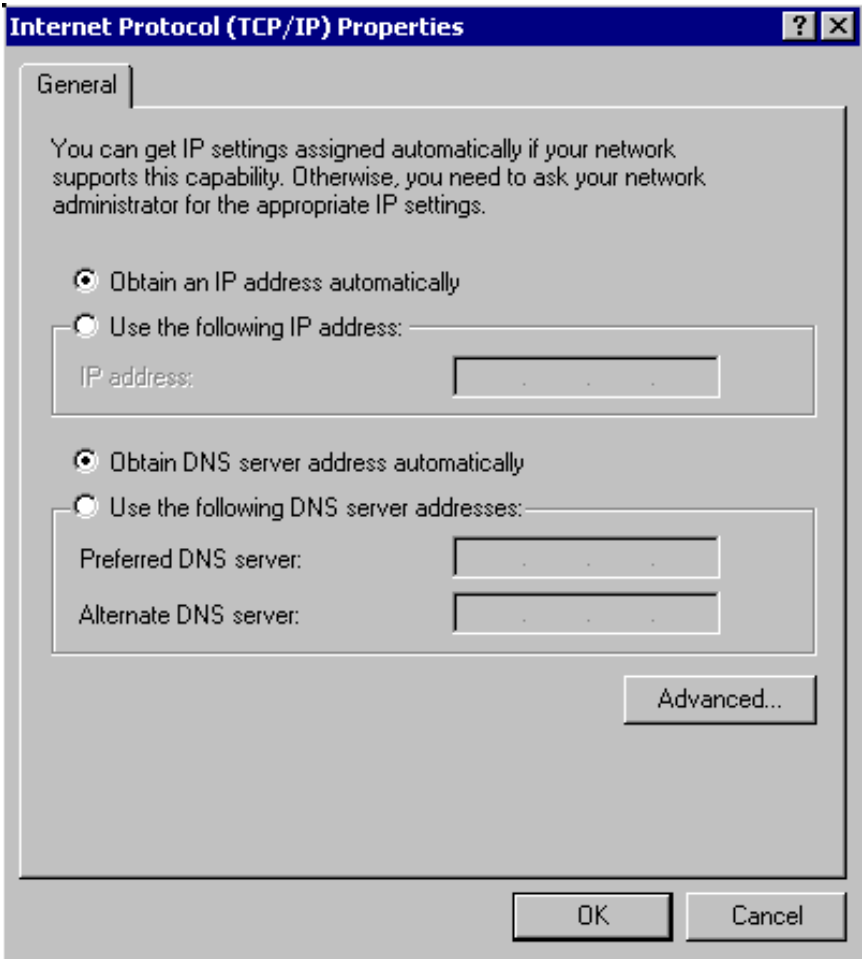
Right mouse click and choose properties:



Let general tab as you compile before in this guide choose “networking” tab:



Select Internet Protocol (TCP/IP) and click on “Properties”:

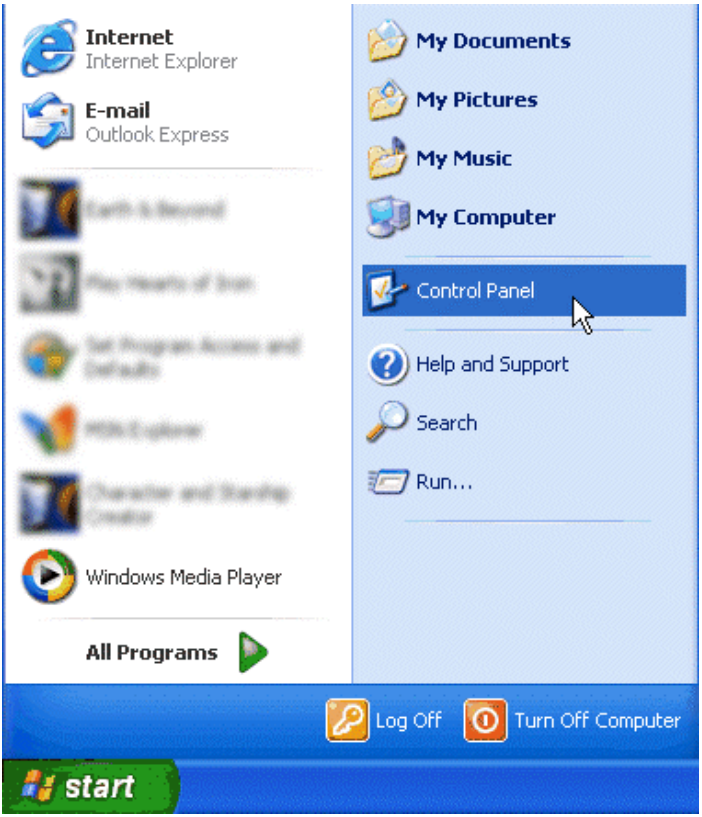


Compile your windows as describe above. Click ok and close all windows.

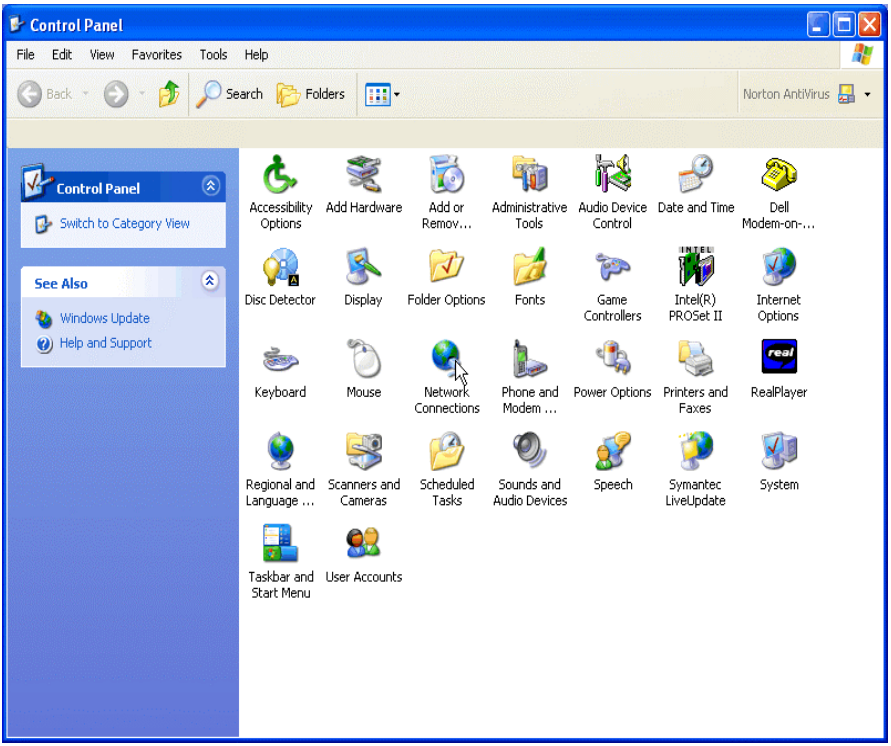
5.1.4 SETTING UP DIAL-UP CONNECTION FOR WINDOWS XP

In Windows XP, you will use the "New Connection Wizard".

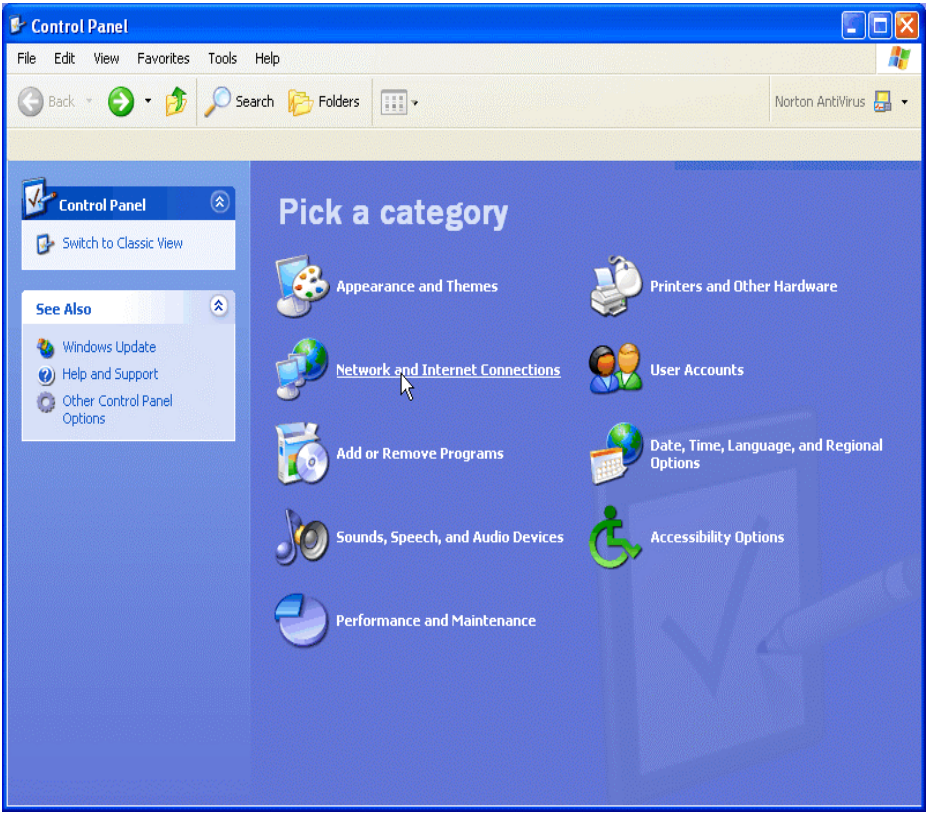
1. From the Start menu, select Control Panel.

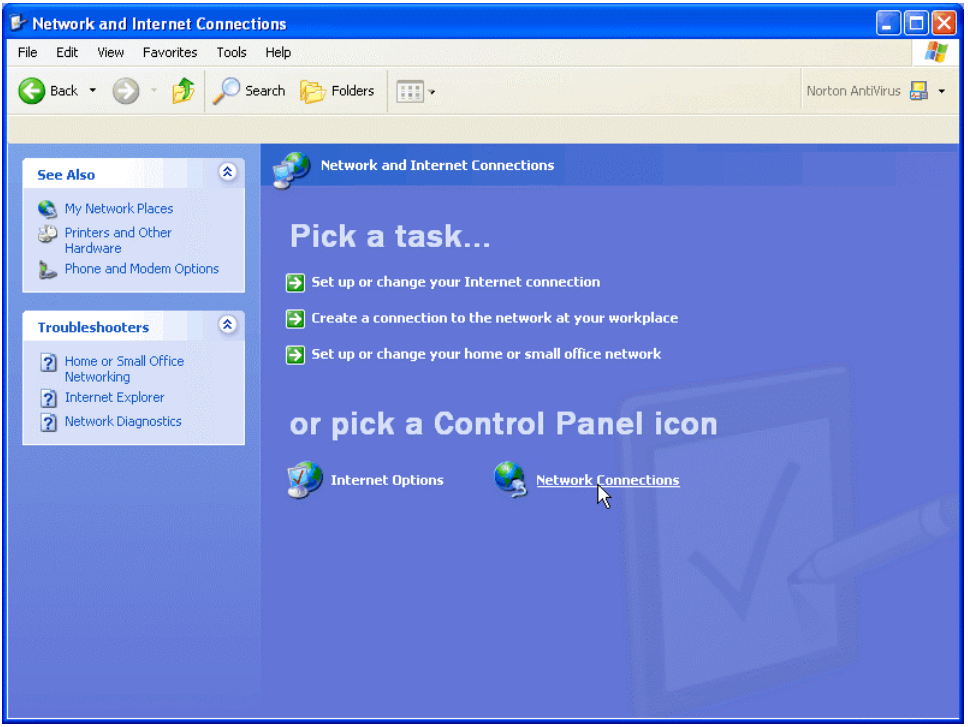


2. If Control Panel is set for "Classic View", double-click on the Network Connections icon.

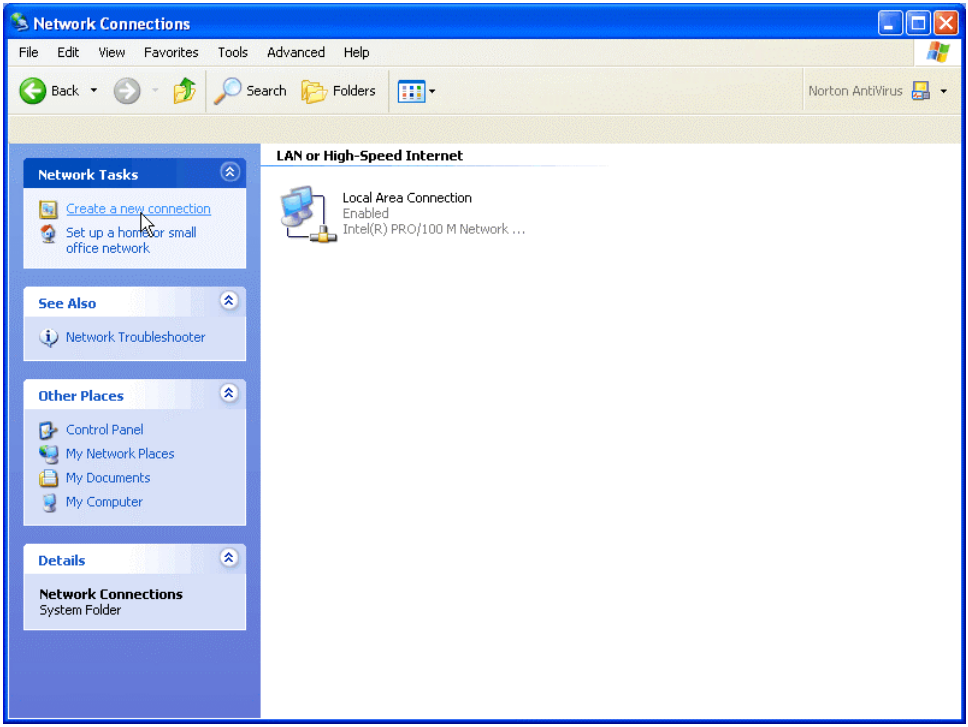


3. If Control Panel is set for "Category View", select the "Network and Internet Connections" category, then double-click on the Network Connections icon.


Control Panel
File Edit View Favorites Tools Help
Back Search Folders
Norton AntiVirus
Control Panel
Switch to Classic View
See Also
Windows Update
Help and Support
Other Control Panel Options
Pick a category
Appearance and Themes
Printers and Other Hardware
Network and Internet Connections
User Accounts
Add or Remove Programs
Date, Time, Language, and Regional Options
Sounds, Speech, and Audio Devices
Accessibility Options
Performance and Maintenance



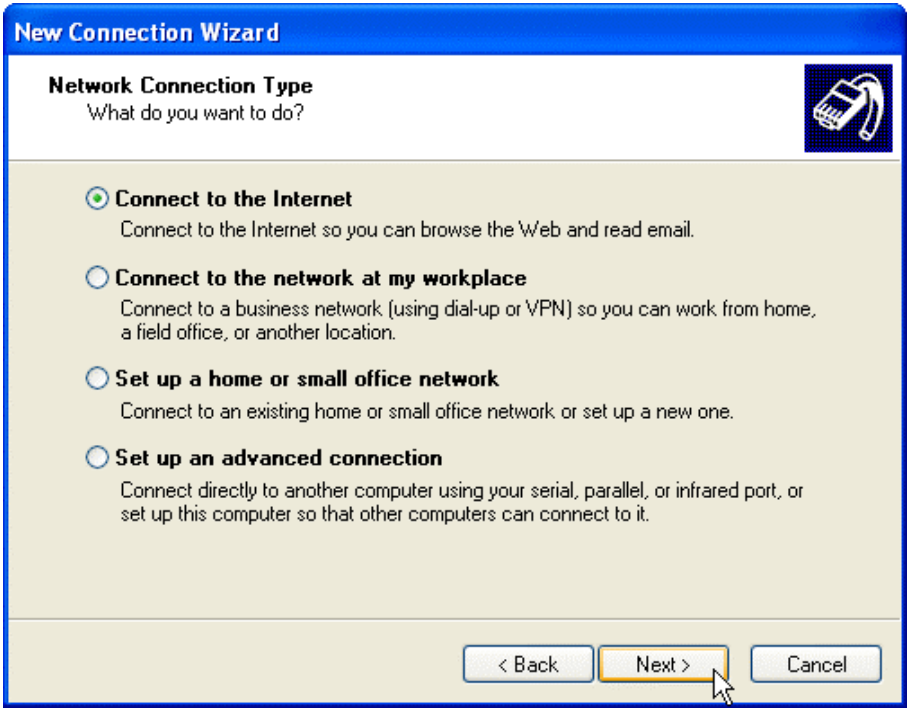
4. Under Network Tasks, select "Create a new connection".


Network Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders
Norton AntiVirus
Network Tasks
Create a new connection
Set up a home or small office network
See Also
Network Troubleshooter
Other Places
Control Panel
My Network Places
My Documents
My Computer
Details
Network Connections
System Folder
LAN or High-Speed Internet
Local Area Connection
Enabled
Intel(R) PRO/100 M Network ...

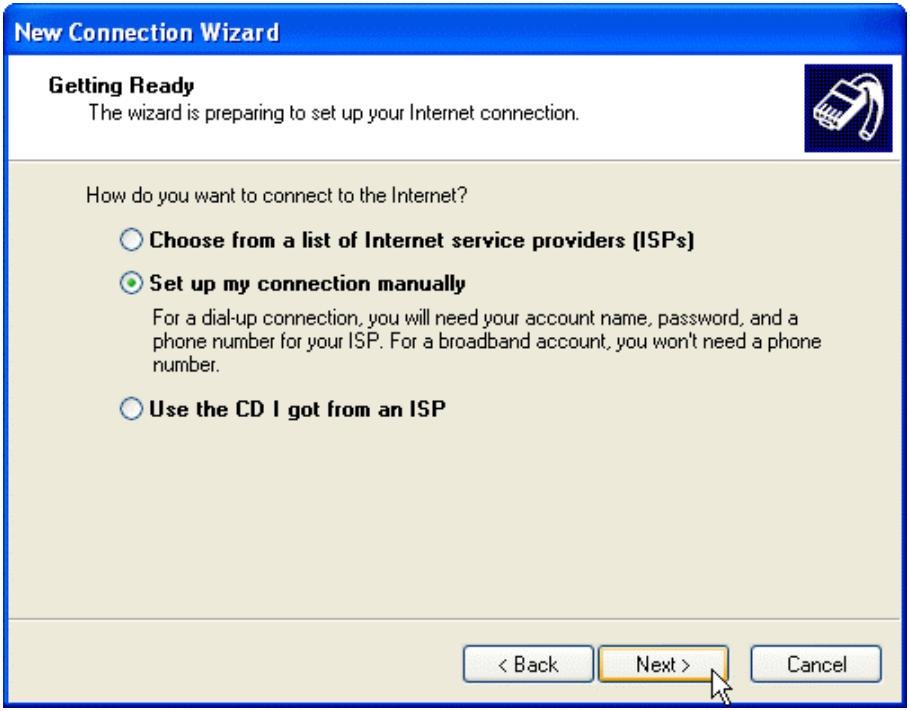
5. Click "Next".

6. Click "Next" at the bottom of this page to continue with the setup instructions.

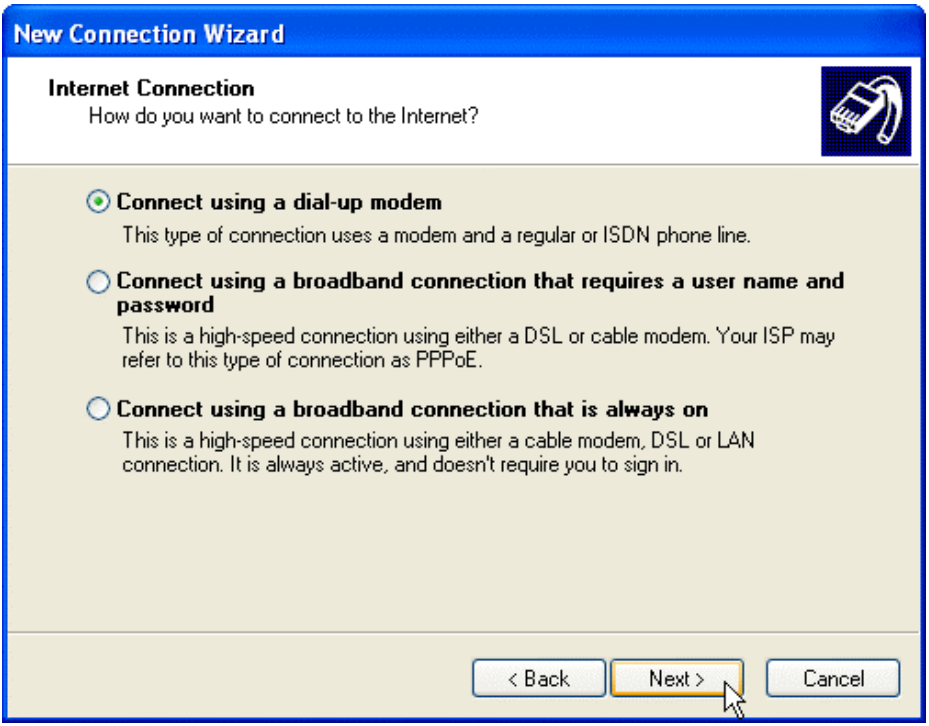
7. Select "Connect to the Internet" and click "Next".



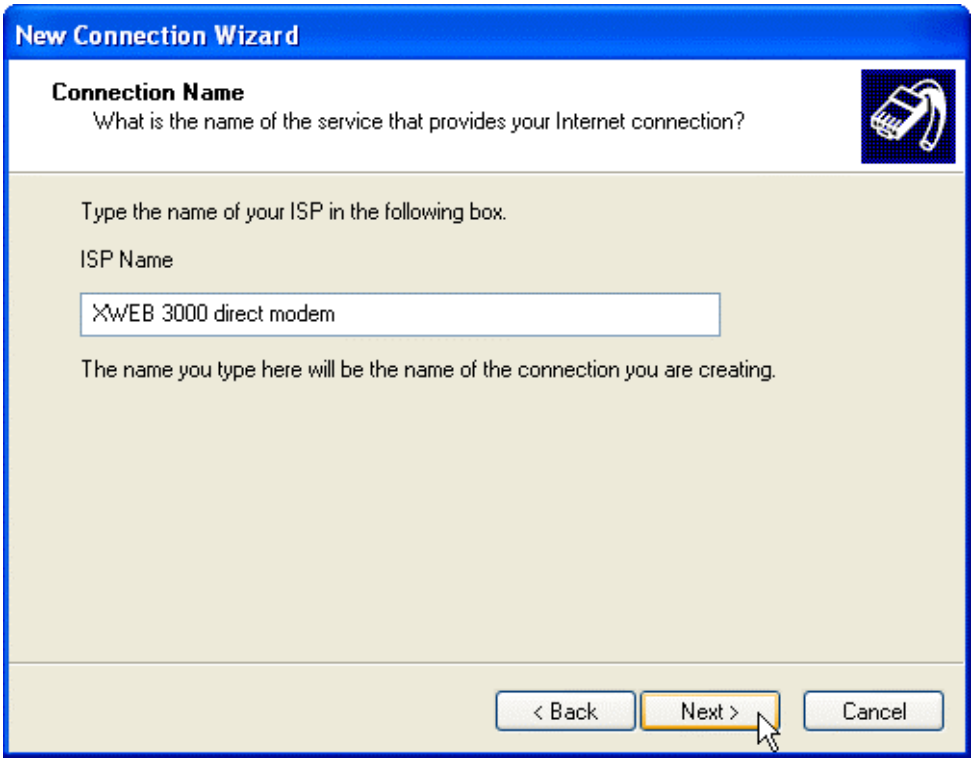
8. Select "Set up my connection manually" and click "Next".



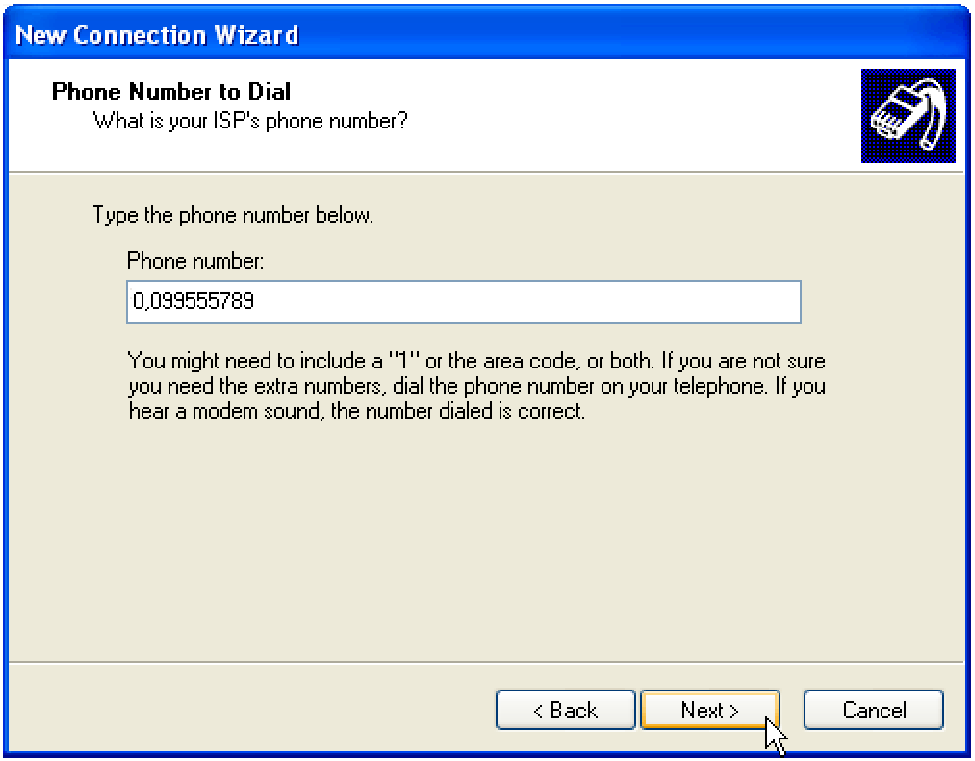
9. Select "Connect using a dialup modem" and click "Next".



10. Type "XWEB 3000 DIRECT MODEM" in the ISP Name box and click "Next".



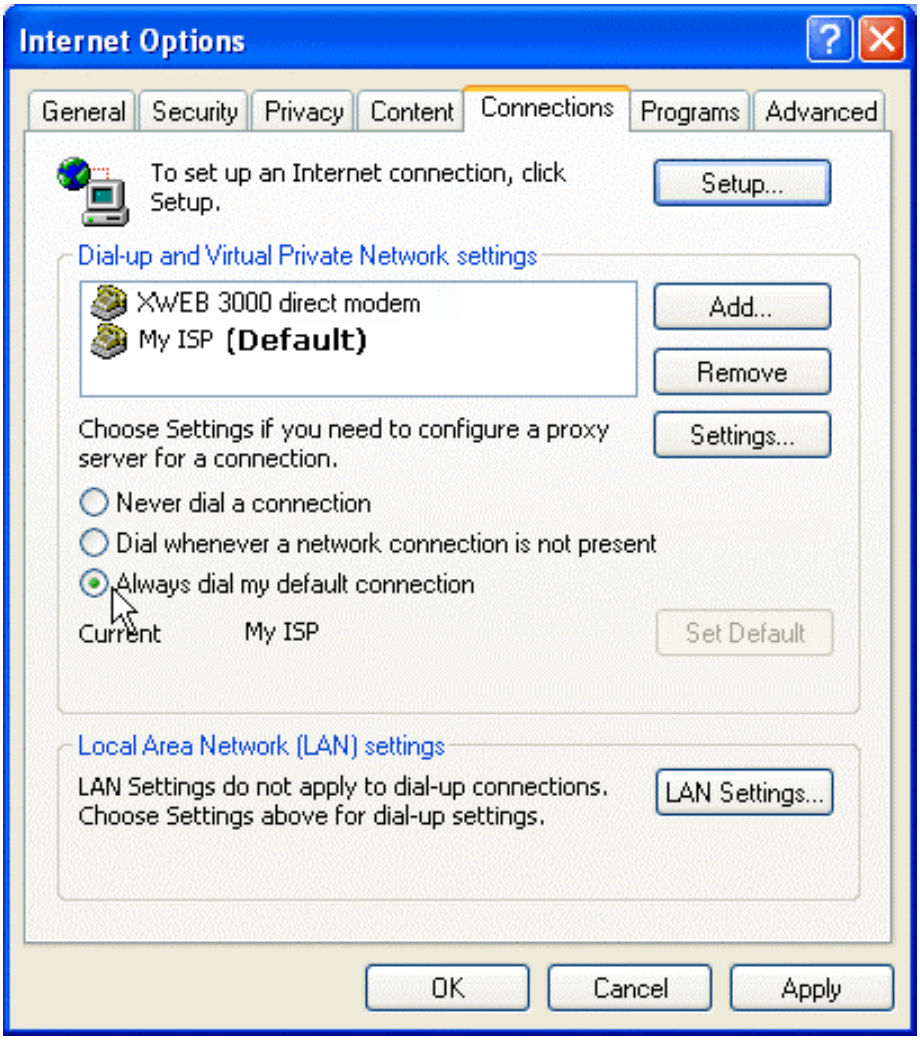
11. Type the access number in the Phone Number box.
E.G: If telephone number is 555789 and area code is 099, put this Telephone number: 099555789.
If there is a switching machine and you have to dial a digit to get the line (0 or 9 for example, it depends on the switching machine), put this telephone number: 0, 099555789 or 9, 099555789.
Click "Next".



12. Type dialup account name dixell in the User Name box. Type dialup password dixell in the Password and Confirm Password boxes. We recommend that you check the first 2 checkboxes, but not the 3rd box which turns on the Internet Connection Firewall. Click "Next".

13. Place a checkmark in the box to create a shortcut on your desktop, and click "Finish".

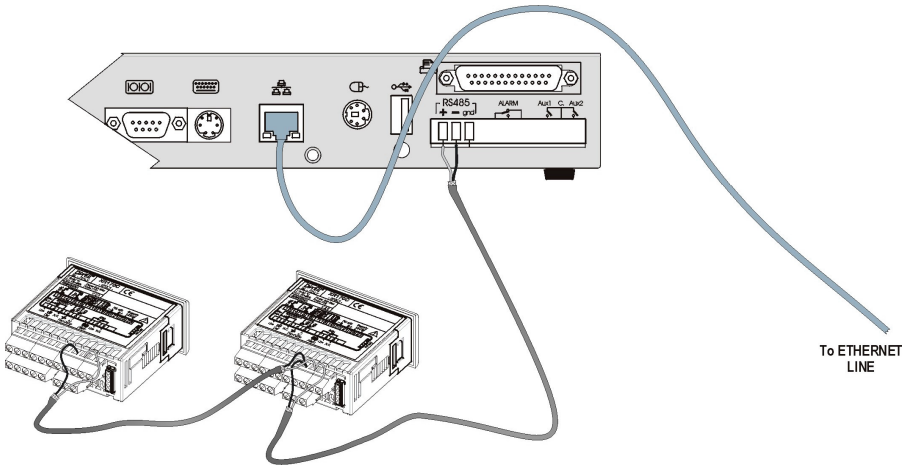
14. You are now ready to connect to your XWEB 3000.
If you want to dial your XWEB 3000 DIRECT MODEM connection automatically when you start Internet Explorer, do the following. Start Internet Explorer, and select "Internet Options" from the "Tools" menu. Select the "Connections" tab. Make sure that XWEB 3000 DIRECT MODEM is your default connection (if not, highlight it and click "Make Default"). Make sure that the "Always dial my default connection" option is selected.


Internet Options
General
Security
Privacy
Content
Connections
Programs
Advanced
To set up an Internet connection, click Setup.
Setup...
Dial-up and Virtual Private Network settings
XWEB 3000 direct modem
My ISP (Default)
Add...
Remove
Choose Settings if you need to configure a proxy server for a connection.
Settings...
Never dial a connection
Dial whenever a network connection is not present
Always dial my default connection
Current My ISP
Set Default
Local Area Network (LAN) settings
LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.
LAN Settings...
OK
Cancel
Apply

6 Intranet / ethernet connection

The Intranet or Ethernet connection should be initially managed by the net administrator which will assign one free IP address to reach the Server. This number is an example of what you should expect:
http://192.168.000.111.
After receiving the address from your network Administrator the XWEB 3000 must be set with this number.
REMEMBER: A setup wizard will guide you through the procedure. Please ensure you have an IP address to use in network section.
Use a standard RJ45 network cable to connect the unit to your lan.

The Intranet method allows the connection to interact with XWEB 3000 from all the PC Clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.



Internet connection
It is necessary a STATIC IP address for the XWEB 3000 which is normally assigned by the Provider of your internet services (ISP).
The Internet connection allows XWEB 3000 to be reached from all PC-clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.

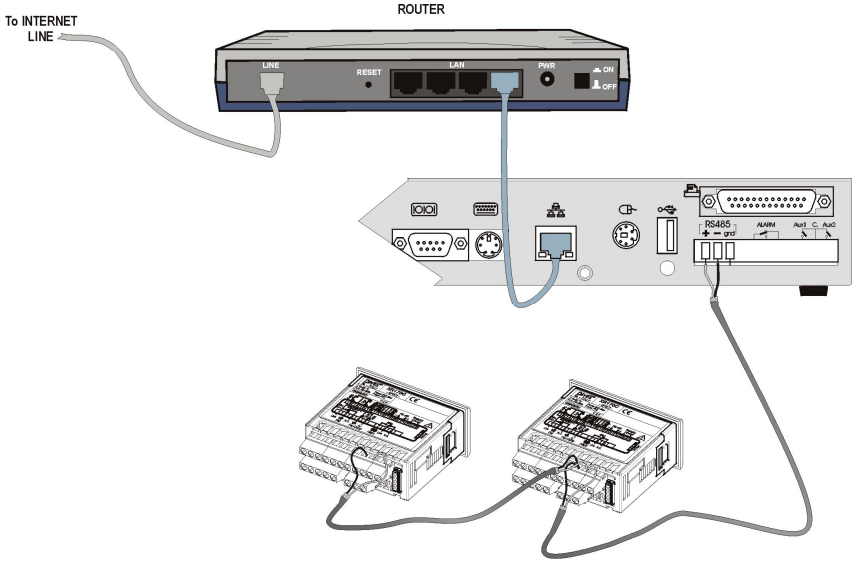
Ask your provider for more details about the rent of a the static IP.
This the internet system requirements for the best result:

Wide band connection.
At least 1 static IP addresses for the XWEB 3000.
The internet connection is established through a device called Router that receives and sends the data as interface between an Intranet and Internet. The Provider also assigns the address of the router that is called IP WAN.
Remember that the default value of the IP of the XWEB 3000 is: 192.168.0.200.
Depending on the contract the Provider can also supply the router, otherwise the user can buy it separately.
REMEMBER: ask qualified personnel for the router installation by using this information.

Used ports that are mapped to the LAN side:
80 (used for the http:// access)
22 (used for SSH connection)
443 (used for SSL protected connection)
10000 (used for the internal modules of the system)

The above ports are all related to the XWEB 3000 IP address 192.168.0.200.
While the ports on the WAN side are:
Telnet (to configure the router from a remote, also via Internet)
http (To access the XWEB 3000)

If working with the router GATEWAY and DNS check your Internet contract details.


ROUTER
To INTERNET
LINE
LINE
RESET
LAN
PWR
ON
OFF
RS485
ALARM
Aux1
C
Aux2

Troubleshooting Guide

Problem	Solution
The log-in page doesn't load	Check your browser setup.
My password doesn't allow me to log-in.	Beware to the caps-lock button an capitol letters. Is it your password correct?
My browser can't reach XWEB 3000 log-in page	Check cable typology From windows go to Start->Run… **ping 192.168.0.200 –t** A continuous set of information should be appear.
Someone in the intranet/LAN receive a warning message about an IP conflict.	XWEB 3000 uses the same address of a resource already used in your intranet/LAN. Change XWEB 3000 IP address.

Unit Setup Reminder

Please take some moments to make an hardcopy of this page, then compile it and store it near XWEB 3000 unit.

HostName _____

IP Address _____

Gateway _____

DNS 1 _____

DNS 2 _____

SMTP _____

E-mail address _____

Modem type _____

Telephone number _____

Notes

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