



Configuring Microsoft Windows® XP Network and Internet Connections for the Express 3000

Introduction

This Technical Support Note details the configuration of Microsoft Windows® XP Network and Internet Connections for use with ADTRAN ISDN products.

Before You Begin

- This note assumes that the ADTRAN ISDN device is already installed in the Windows operating system.
- This note assumes that Windows® XP is in Category View. If Windows® XP is not in Category View, then right-click on the taskbar, select Properties, Start Menu and select Category View.
- If your terminal adapter is not set up to run MP or BONDING (it is only connecting on one bearer channel), or if your Internet provider allows access on only one bearer channel, then setting your serial port to a baud rate of 115.2 kbps may allow you to improve your throughput. In some cases, doing this will allow the full use of the 64 kbps bearer channel instead of using a baud rate of only 57.6 kbps.
- In order to place calls at 230.4 kbps, you are required to have a 16650 UART on your COM port.

Configuring Network and Dial-Up Connections Options

1. Click on **Start>Control Panel** (see Figure 1).

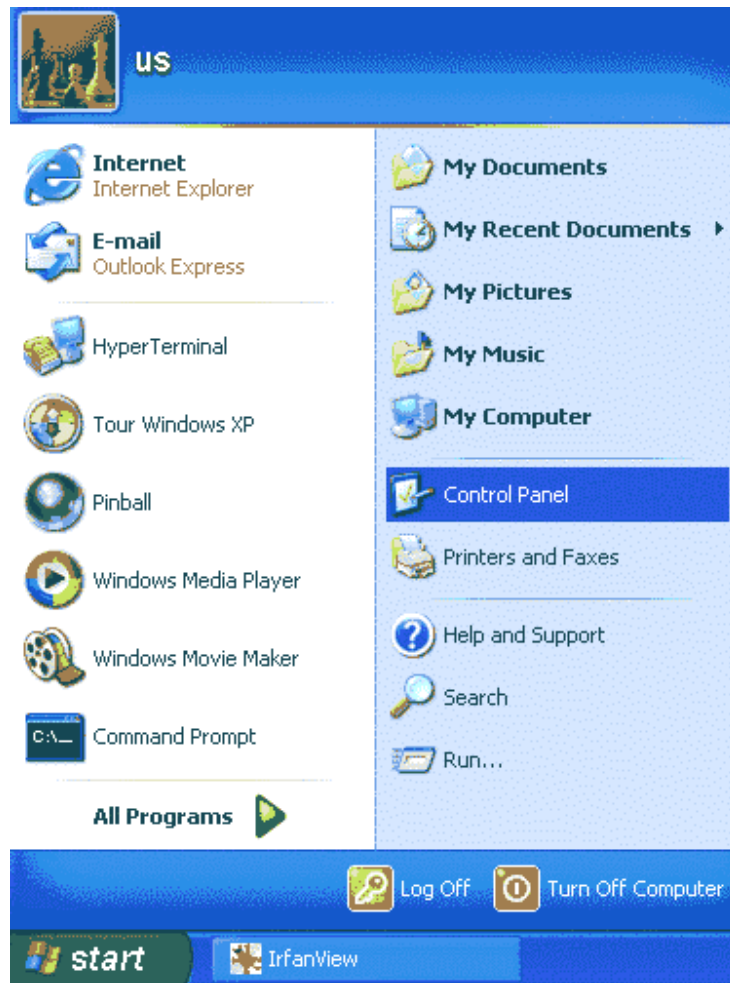


Figure 1

2. Click on **Network and Internet Connections** (see Figure 2).



Figure 2

3. Click **Network Connections** (see Figure 3).

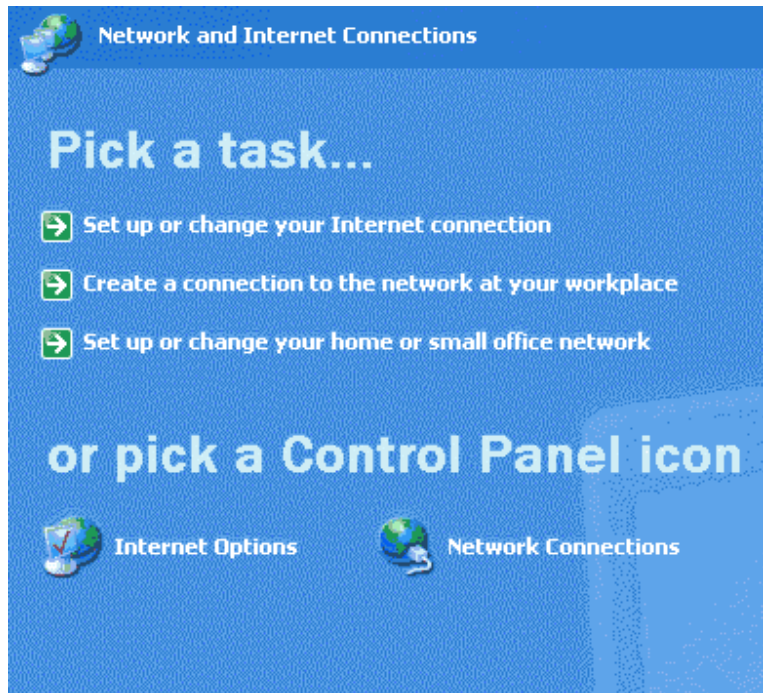


Figure 3

4. Under **Network Tasks**, click **Create a new connection** (see Figure 4).

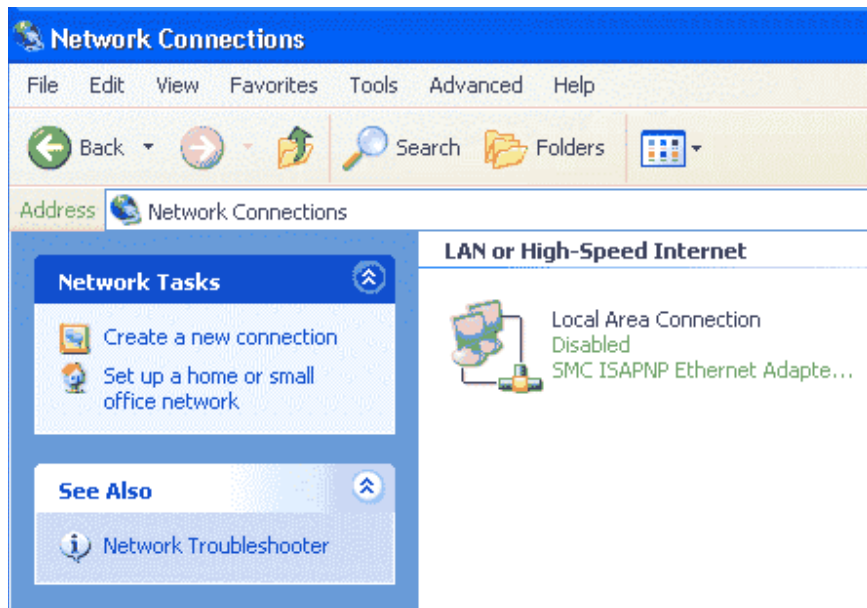


Figure 4

5. The **New Connection Wizard** will open. Click **Next** to continue (see Figure 5).



Figure 5

6. Select the **Connect to the Internet** option and click **Next** (see Figure 6).

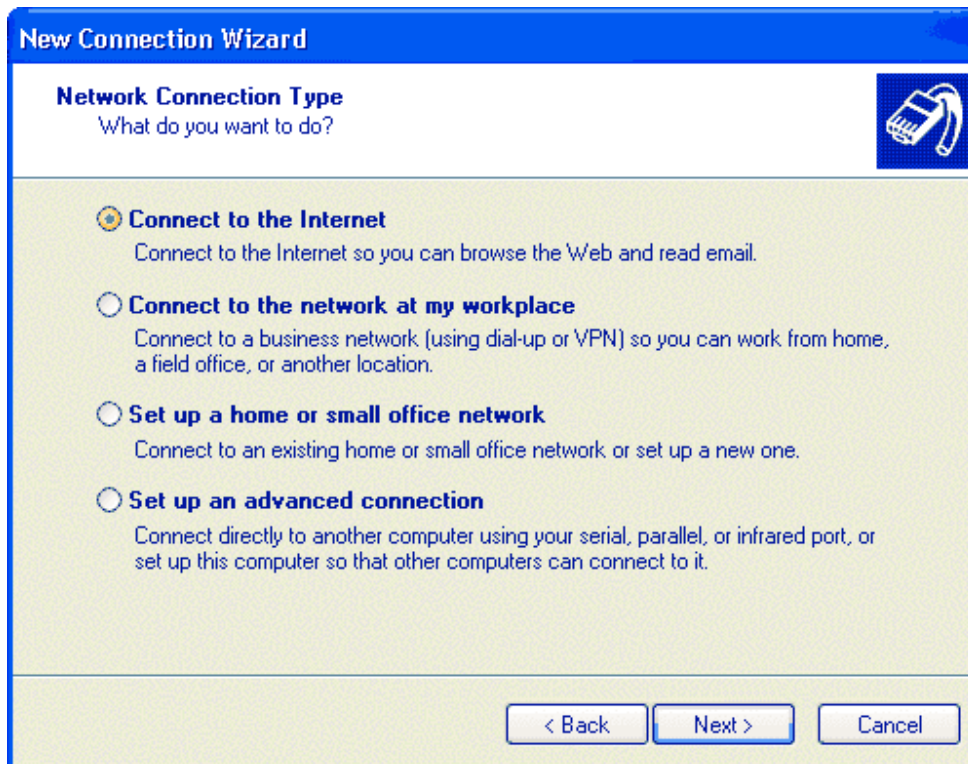


Figure 6

7. Select the **Set up my connection manually** option and click **Next** to continue (see Figure 7).

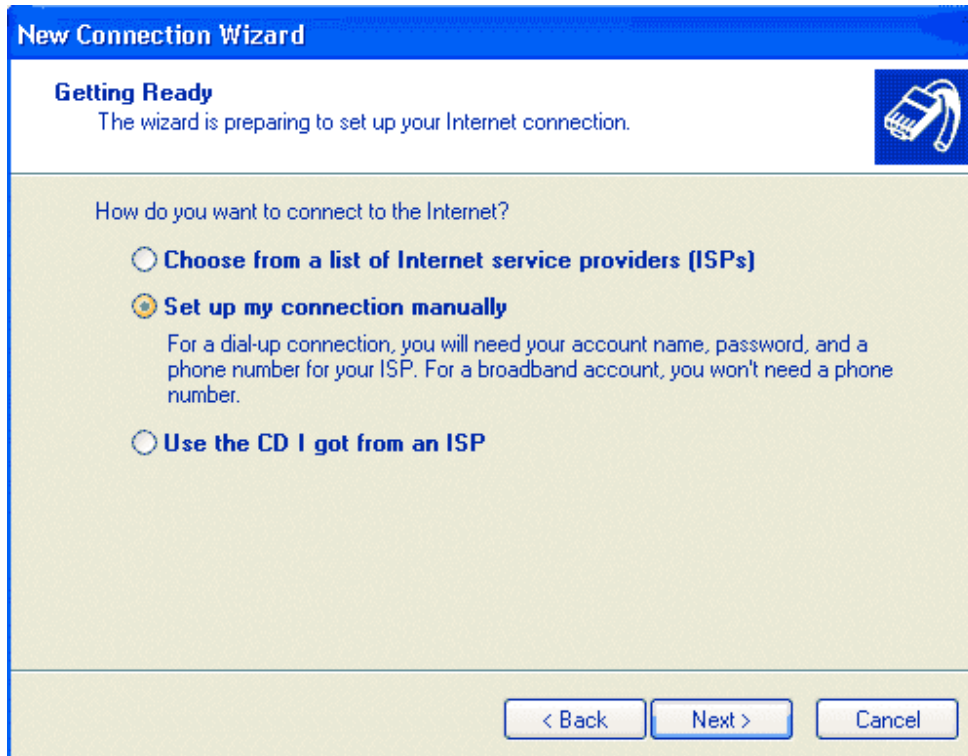


Figure 7

8. Select **Connect using a dial-up modem** and click **Next** to continue (see Figure 8).

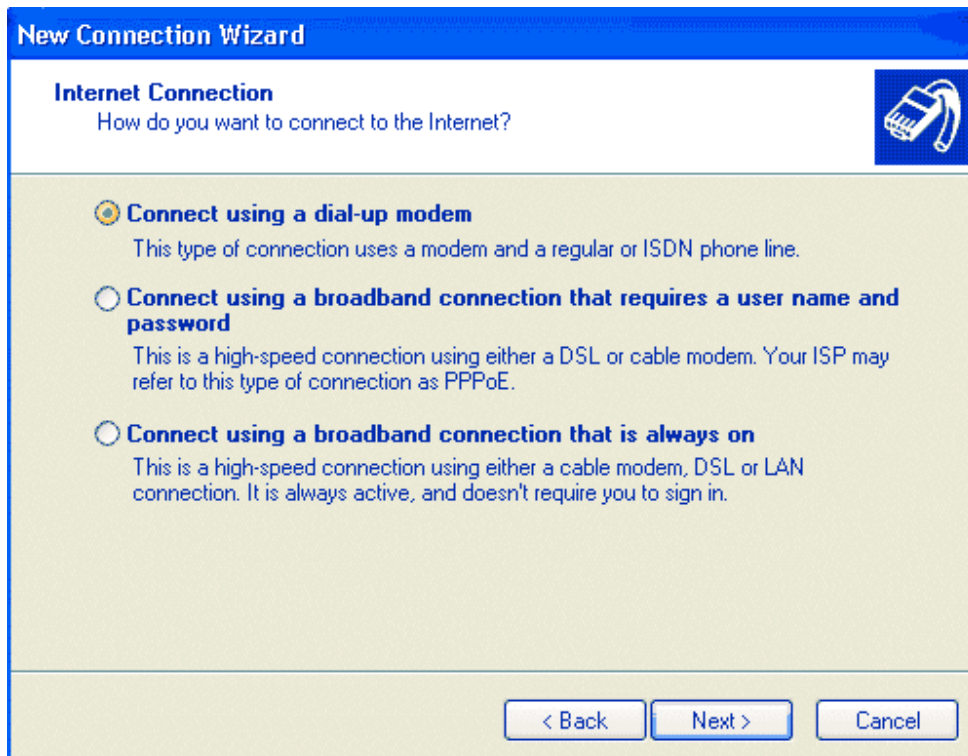


Figure 8

9. Enter your **Connection Name** (any name) and click **Next** (see Figure 9).

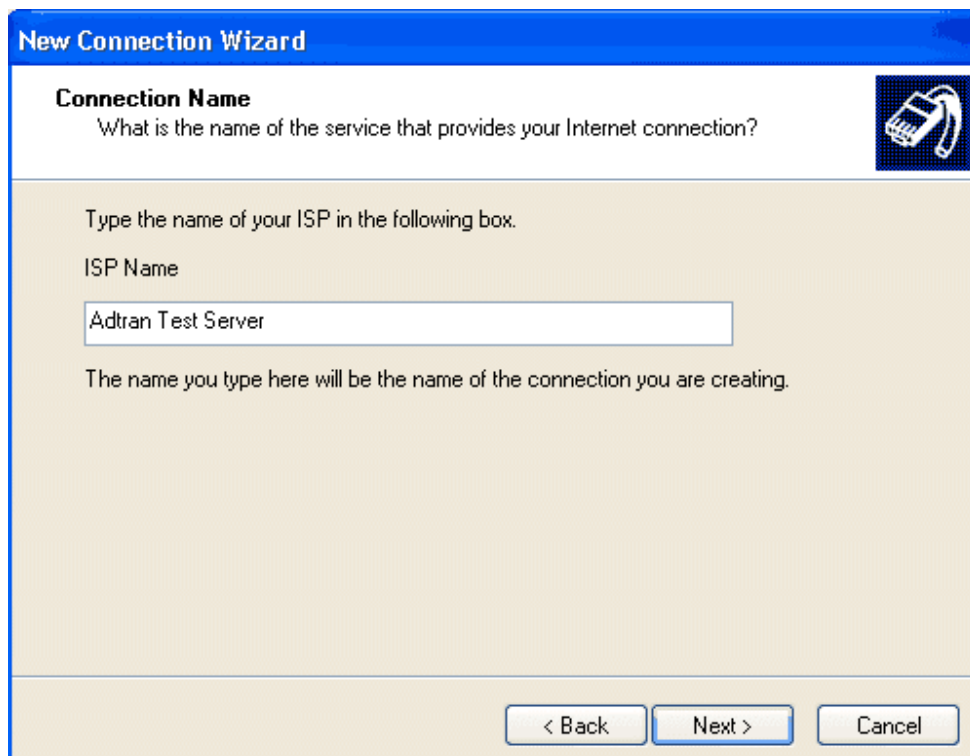
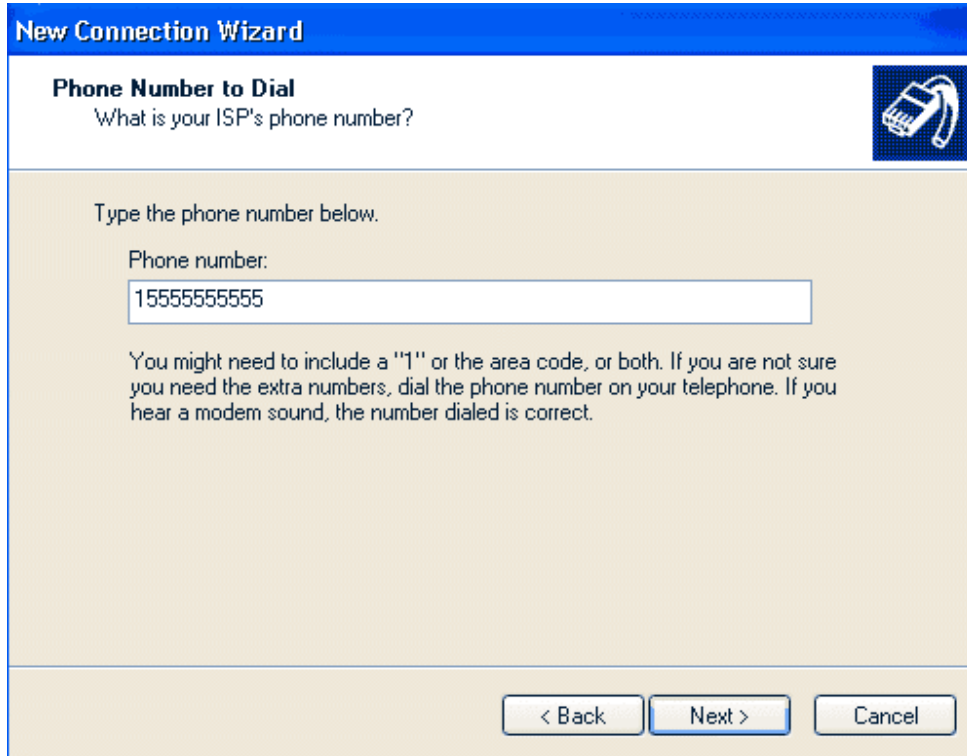


Figure 9

10. Enter the **Phone number** of your ISP and click **Next** (see Figure 10).



The screenshot shows a Windows-style dialog box titled "New Connection Wizard". The main heading is "Phone Number to Dial" with a sub-question "What is your ISP's phone number?". A small icon of a telephone handset is in the top right corner. Below the heading, it says "Type the phone number below." followed by a text input field containing "1555555555". A note below the field reads: "You might need to include a '1' or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct." At the bottom, there are three buttons: "< Back", "Next >", and "Cancel".

Figure 10

11. Enter your **User name** and **Password** provided by your Internet Service Provider (ISP), **Confirm** your **password** and click **Next** (see Figure 11). Chose to enable the following options: Use this account name and password when anyone connects to the Internet from this computer; Make this the default Internet Connection; and Turn on the Internet Connection Firewall for this connection.

New Connection Wizard

Internet Account Information
You will need an account name and password to sign in to your Internet account.

Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)

User name:

Password:

Confirm password:

Use this account name and password when anyone connects to the Internet from this computer

Make this the default Internet connection

Turn on Internet Connection Firewall for this connection

< Back Next > Cancel

Figure 11

12. Click **Finish** (see Figure 12).

New Connection Wizard

Completing the New Connection Wizard

You have successfully completed the steps needed to create the following connection:

Adtran Test Server

- Make this the default connection
- This connection is firewalled
- Share with all users of this computer
- Use the same user name & password for everyone

The connection will be saved in the Network Connections folder.

Add a shortcut to this connection to my desktop

To create the connection and close this wizard, click Finish.

< Back Finish Cancel

Figure 12

13. Before you connect, click **Properties** (see Figure 13).



Figure 13

14. In the **Connect using** field, select the appropriate ADTRAN product. Click on the **Configure** button (see Figure 14).

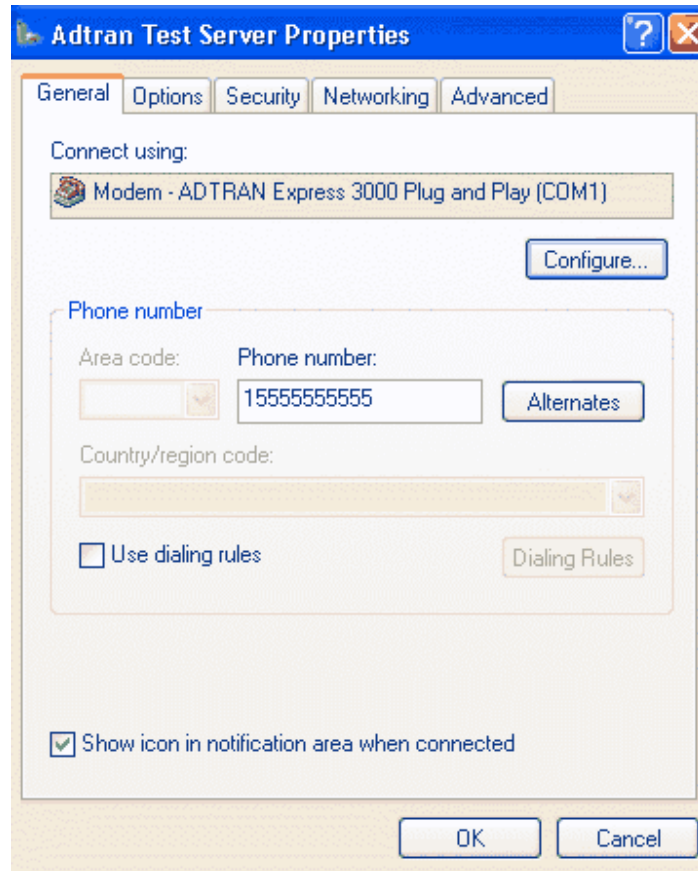


Figure 14

15. Set the **Maximum speed** to **115200**, set the **Modem protocol** to **PPP(112K)** or **PPP(128K)**, leave **Enable hardware flow control** checked and the rest unchecked, and click **OK** (see Figure 15).

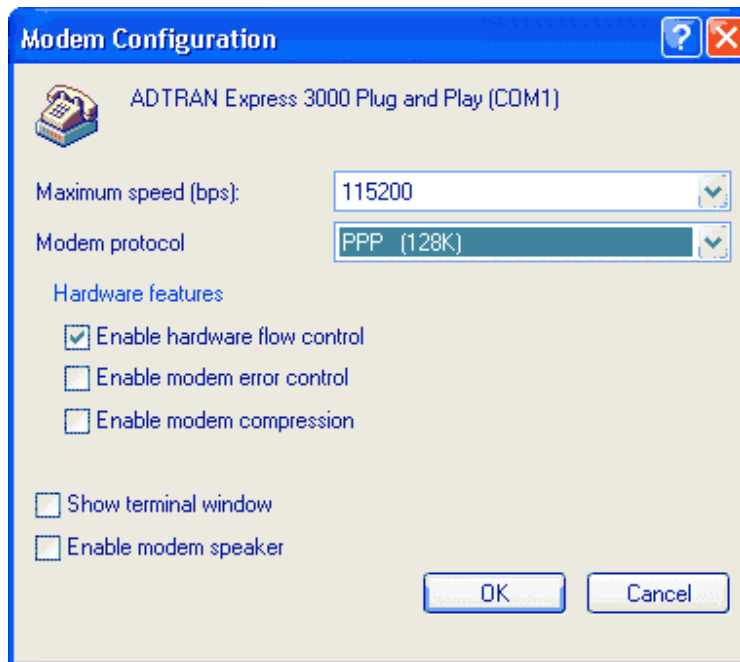


Figure 15

16. Click on the **Networking** tab. On the **Type of dial-up server I am calling** option at the top of the window, make sure **PPP: Windows 95/98/NT4/2000, Internet** is selected. Click **Settings** (see Figure 16).

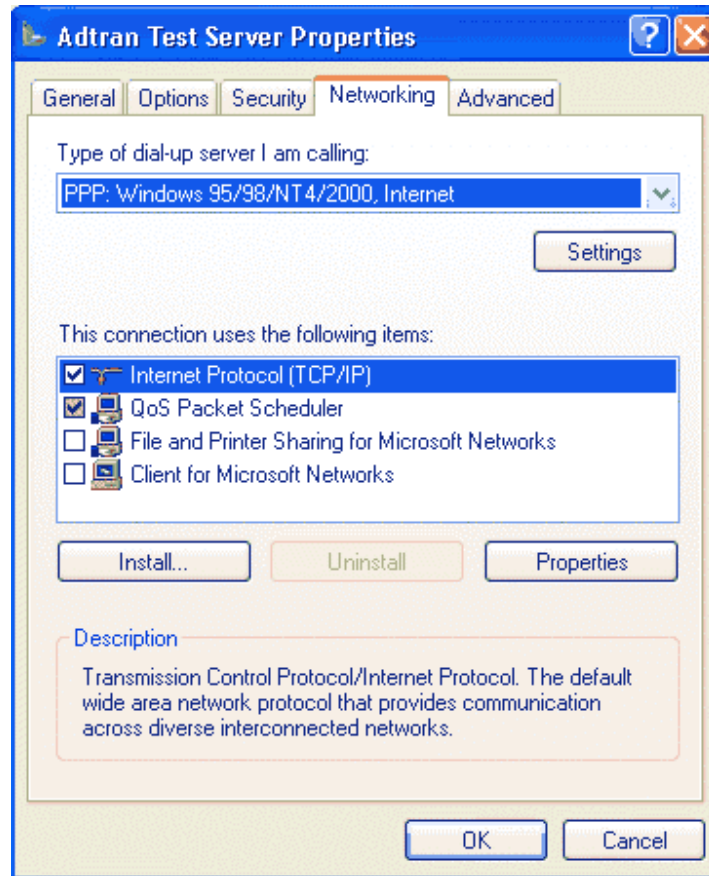


Figure 16

17. Uncheck the **Enable LCP extensions** option and **Enable software compression** option and leave the **Negotiate multi-link for single link connections** checked. Then click **OK** (see Figure 17).

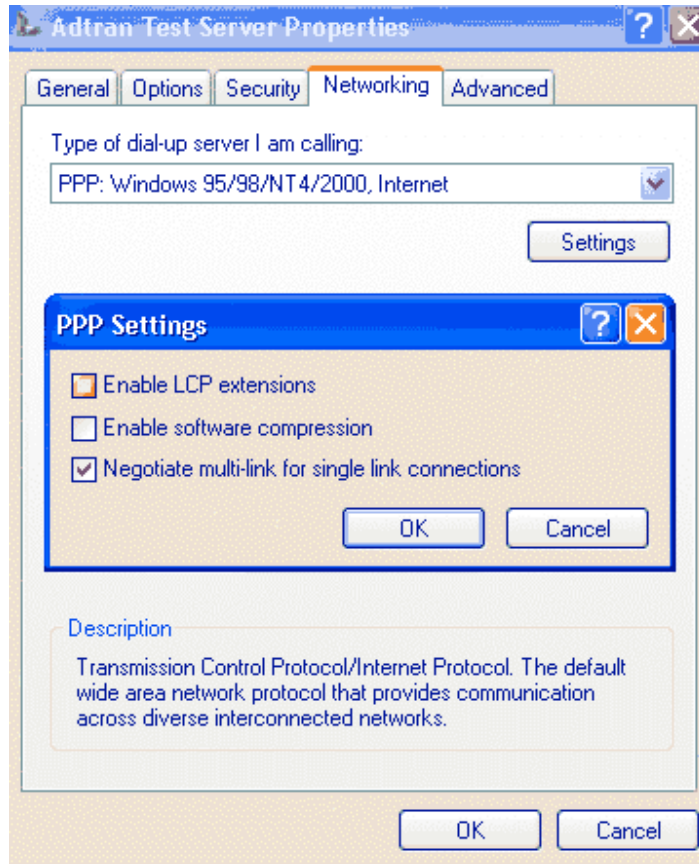


Figure 17

18. On the **This connection uses the following items:** option, make sure **Internet Protocol (TCP/IP)** is selected and highlighted; then click **Properties** (see Figure 18).

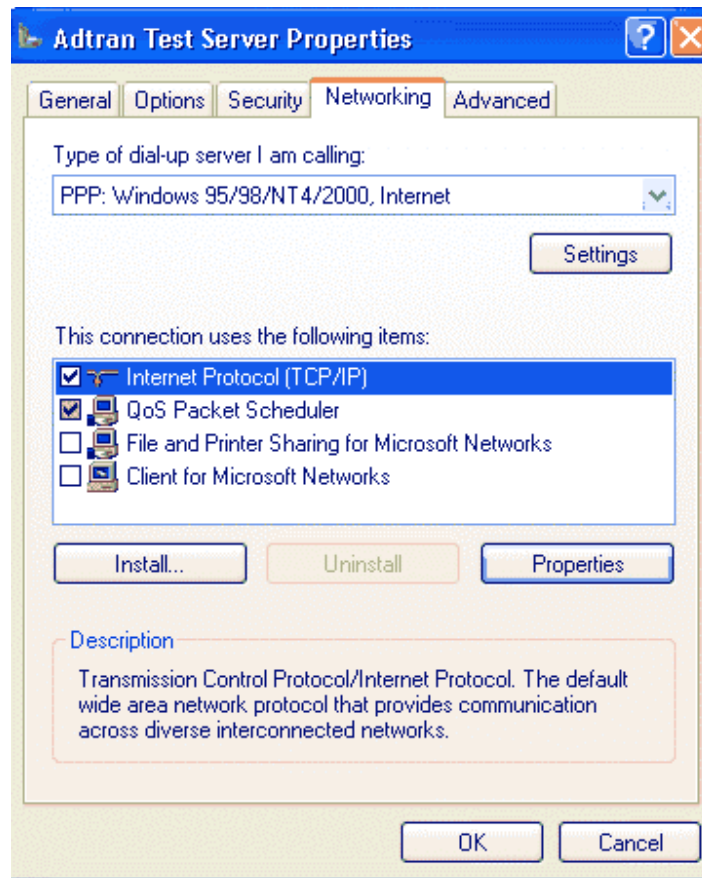


Figure 18

19. Enter your IP settings and DNS settings if your ISP has provided you with them. If not, select **Obtain an IP address automatically** and **Obtain DNS server address automatically** and click **OK** (see Figure 19).

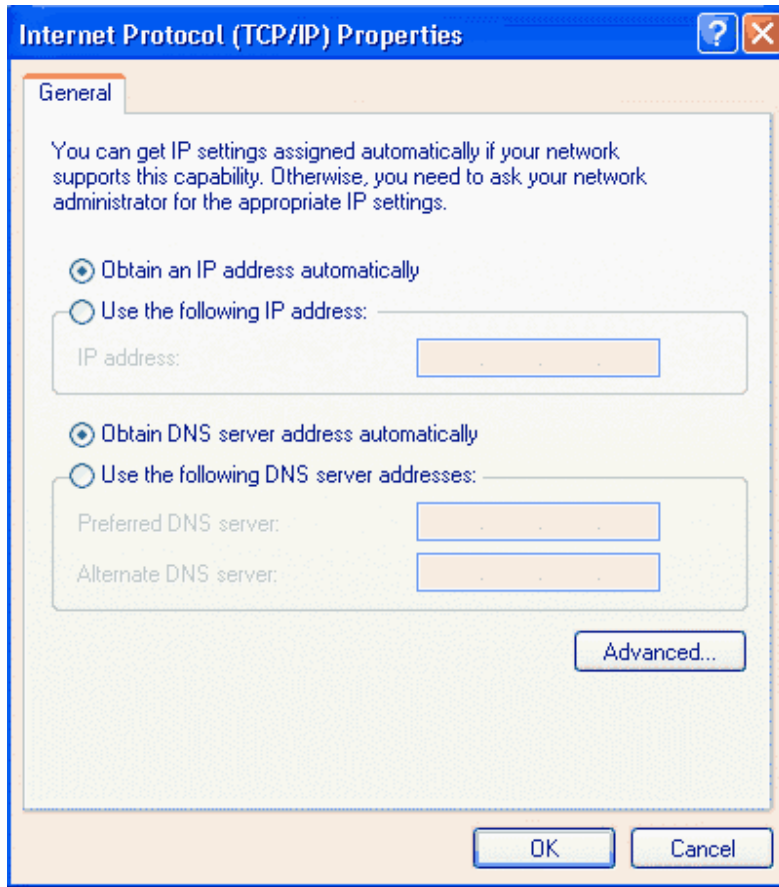


Figure 19

20. Leave the settings on the **Options**, **Security**, and **Advanced** tabs with the default values and click **OK** (see Figures 20, 21 and 22).

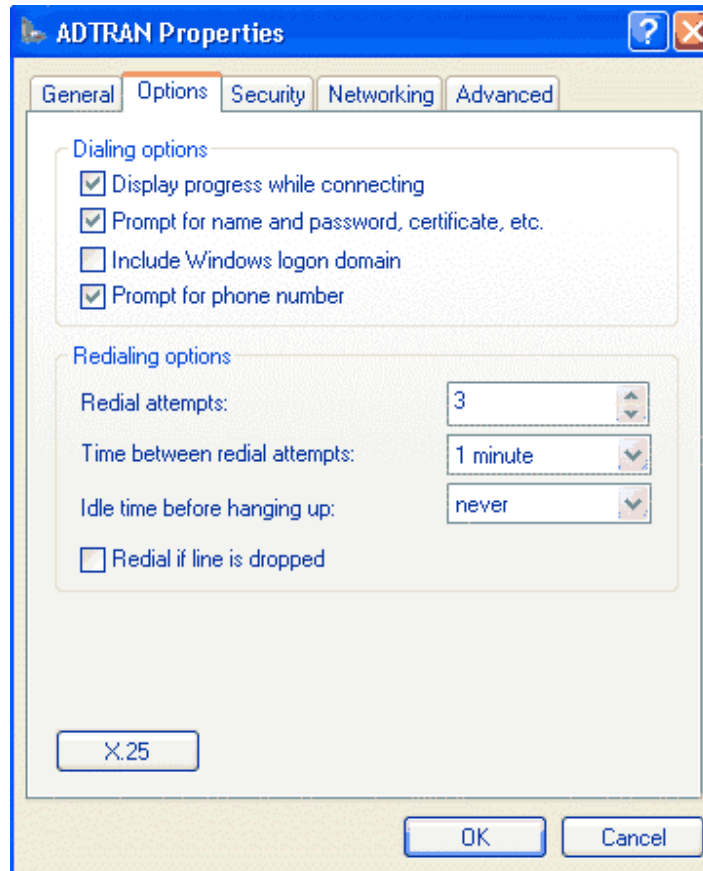


Figure 20

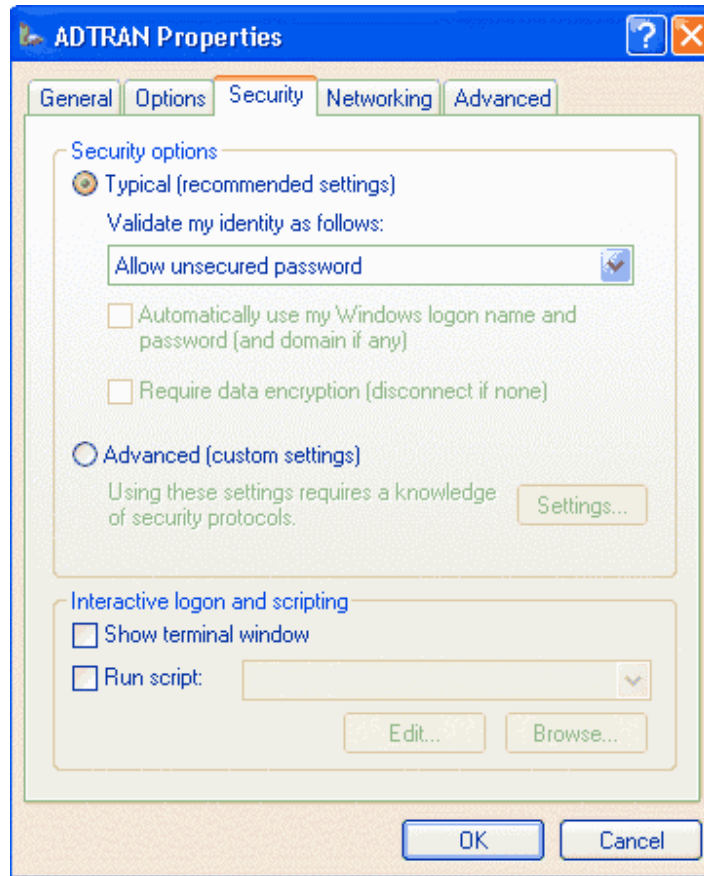


Figure 21

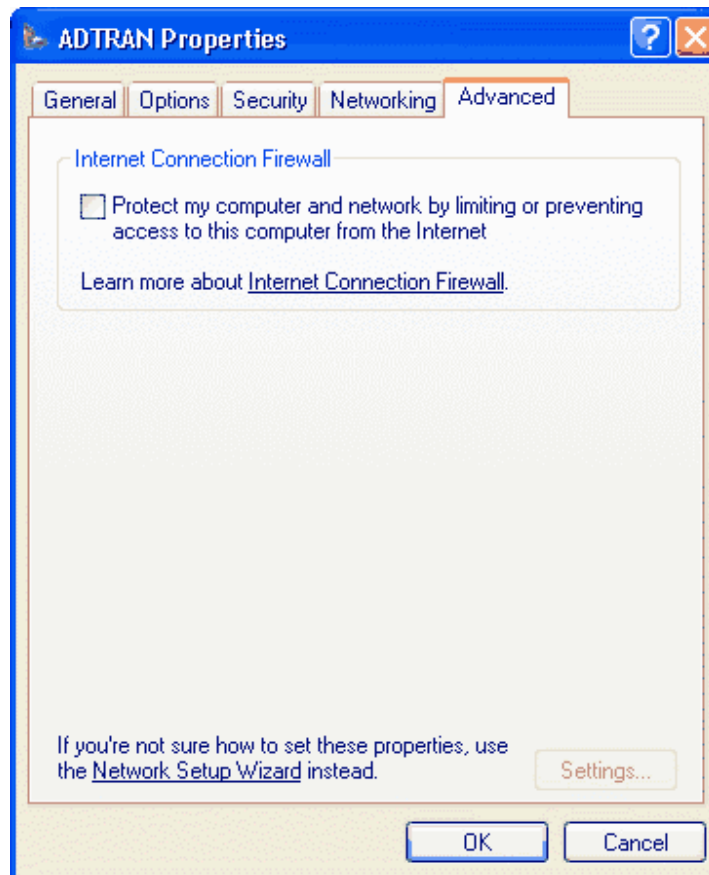


Figure 22

21. Go into **Control Panel>Printers and Other Hardware** and select **Phone and Modem Options** (see Figure 23).

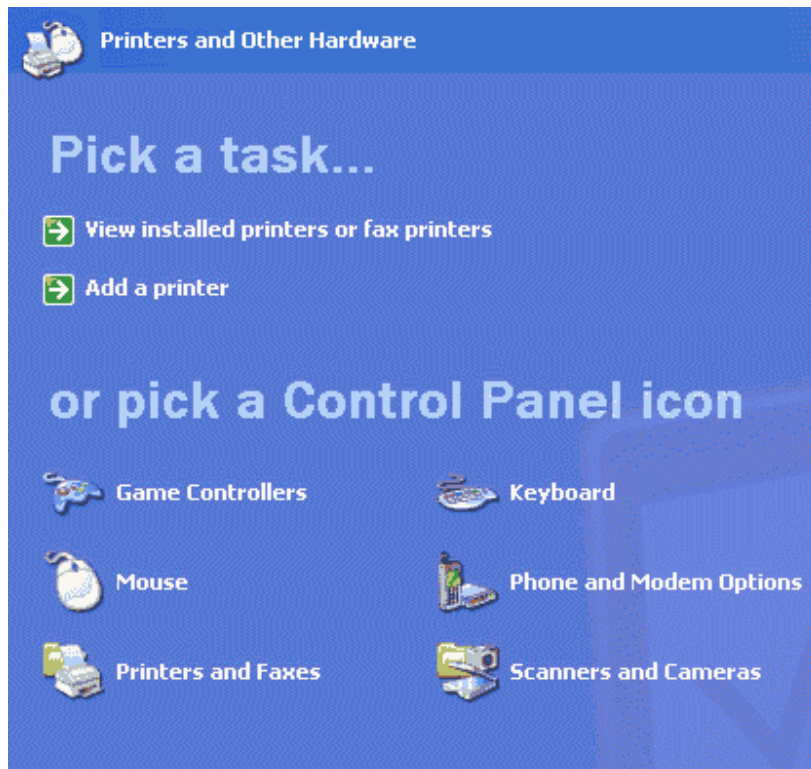


Figure 23

22. Go to the **Modems** tab and select the ADTRAN ISDN product; then select **Properties** (see Figure 24).

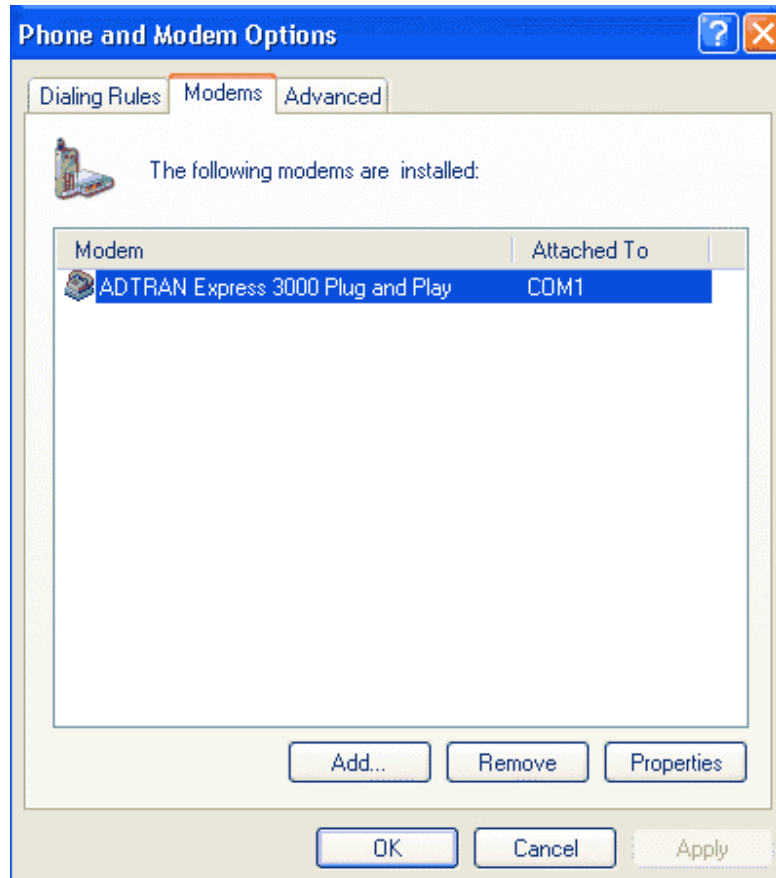


Figure 24

23. Select the **Advanced** tab, type in the appropriate **Extra initialization commands**, and click **OK** (see Figure 25).

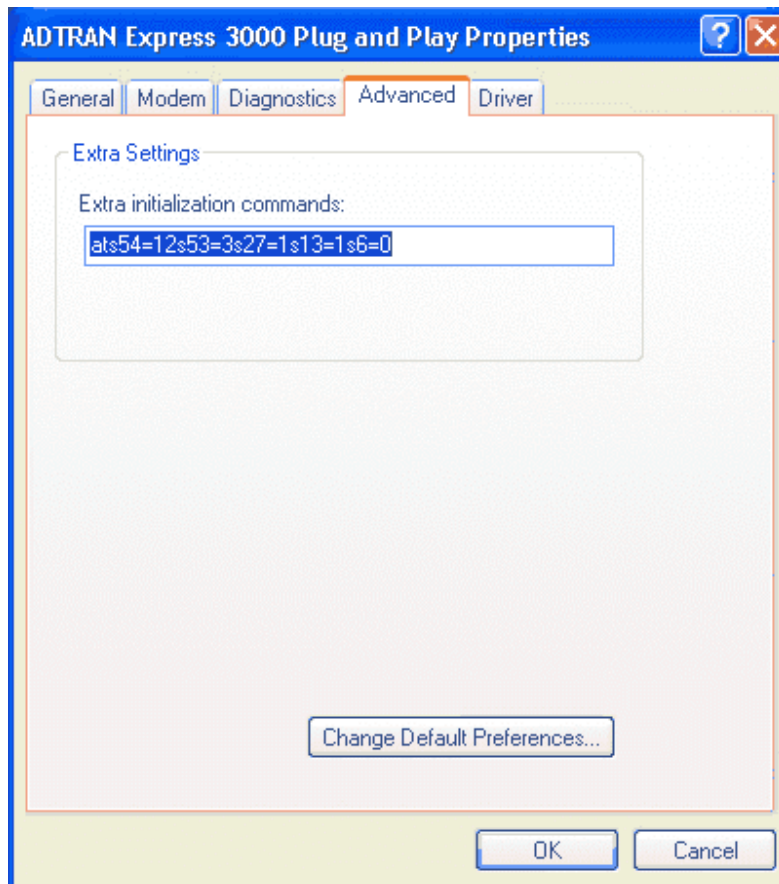


Figure 25

Note: For a complete list of Suggested Initialization Commands see the ADTRAN Technical Support Note **Initialization Strings for the Express XRT and Express 3000 in Microsoft Windows® 95, 98, NT, 2000, ME and XP Operating Systems** (kb article # 1594)

24. Close the **Phone and Modem Properties** and **Control Panel**, and return to **Network and Internet Connections** and double-click on the **Dial-up** connection that you have just created (see Figure 26).

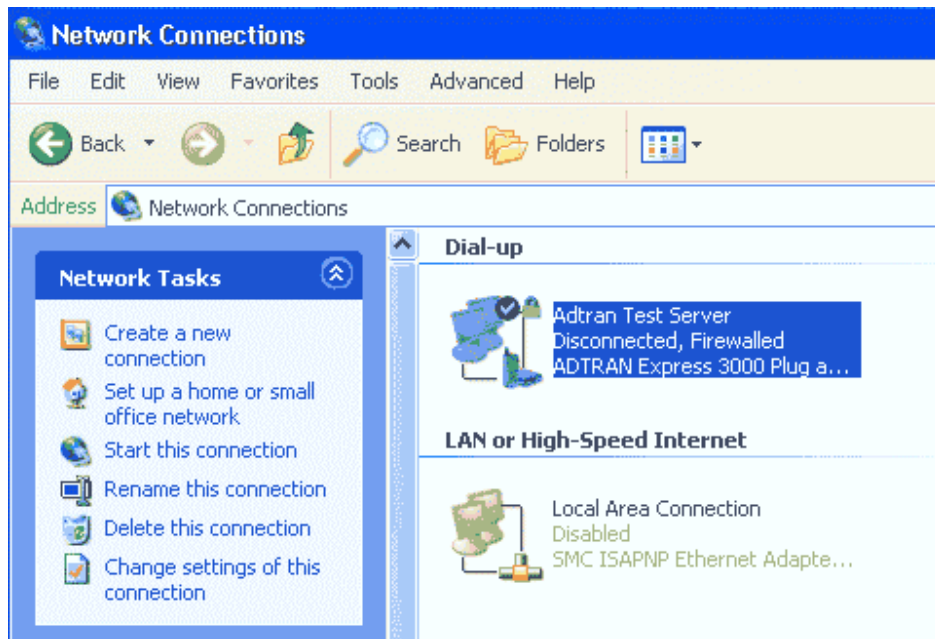


Figure 26

25. Fill in the **User name** and **Password** given by your ISP, and click **Dial** to connect to your ISP (see Figure 27).



Figure 27

26. The ADTRAN Terminal Adapter should dial and connect (see Figure 28).

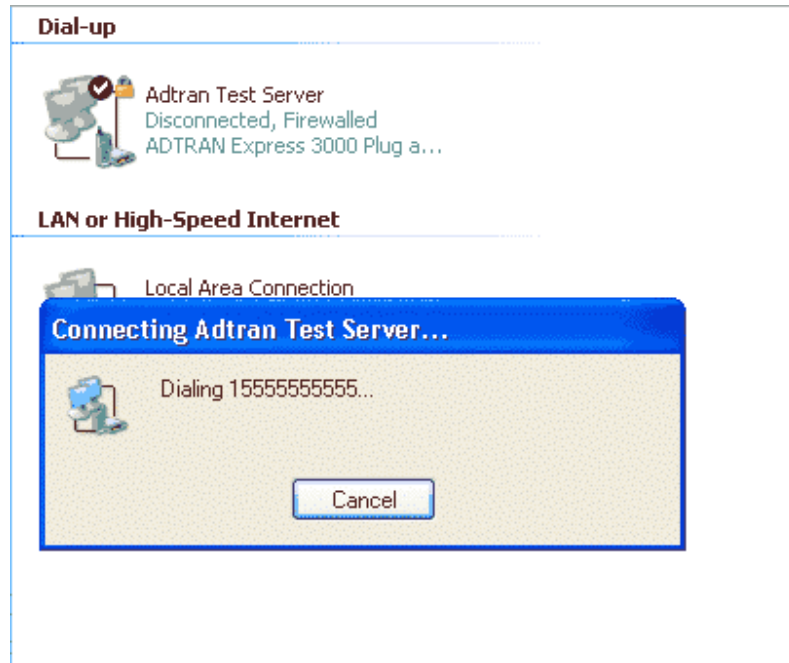


Figure 28