



Dialing into PittNet using PPP on your Windows XP PC

What is PPP?

Point-to-point Protocol (PPP) is a method for connecting a personal computer to PittNet and the Internet using a standard phone line and a modem. The difference between PPP and other, older dial-up procedures is that a PPP setup will establish a direct Internet connection that allows the PC to use TCP/IP (Internet-based) applications as if it had its own direct Internet port instead of just a phone jack. Communication programs such as Telnet, FTP and Netscape will all run from a Windows-based PC with a good PPP connection. The University of Pittsburgh offers PPP communication to its computing community through all available dial-up lines.

In order to make a connection using PPP, you must have a modem capable of at least 9600 bps communication. A slower modem may be successful, but the performance may be too slow to be of any practical use.

You do not need to install a communications package such as Trumpet Winsock or LAN WorkPlace in order to initiate PPP communication using a modem on a Windows XP PC. Do not install any other outside communications package on your Windows XP PC as they may severely impede your machine's communications ability.

If you have a PC with an older version of Windows (Windows 2000, Me, or earlier), then these directions do not apply to your PC setup. See the help sheets listed under Remote Access on the **Documentation** web page at <http://technology.pitt.edu/documentation/index.html>.

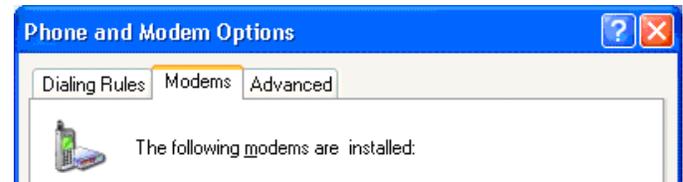
Note: Windows XP provides multiple ways to perform tasks such as configuring your network connection. Documentation from CSSD uses the Windows XP default view, called "Category View". Users who have experience with previous versions of Windows may wish to use the Control Panel to switch to "Classic View".

Getting Your Modem Installed

To see if your PC can recognize your modem, go to the **Start Menu** and choose **Control Panel**. In the **Control Panel**

window, choose **Printers and Other Hardware**, and then **Phone and Modem Options**.

If Windows XP detects a modem, then the modem will be listed on the **Modems** tab, and you can skip ahead to the next section.



If Windows XP does not detect a modem, click the **Add...** button to go through the installation process. (If you have not physically installed the modem, turn off your machine and install the modem card. Then, restart your PC to see if the modem is recognized by plug-and-play.)

The installation process will use "wizard" screens that will take you through the installation as a series of steps represented by different screens.

Modem Installation Tips

The "Add New Hardware Wizard" will attempt to automatically recognize your modem again. Click the **Next** button on the first wizard screen to allow the wizard to detect your modem.

The wizard installation program will try to set up the modem on your PC's COM1 communications port. Some PCs will require that Windows XP install both the port and the modem at the same time. If this is not possible, then the wizard program will install just the port using the "Add New Hardware" wizard program. If this happens, follow the "New Hardware" process to the end and then click **Finish**. Then restart your PC, navigate to the **Phone and Modem Options** screen, **Modems** tab and click **Add...** again to start a separate process for the modem installation.

Some internal modems on Windows XP PCs cannot be recognized properly due to conflicts with certain sound cards. If your PC is not correctly recognizing your internal modem, try removing the sound card and restarting the PC. With this possible conflict temporarily eliminated, the PC may be able to recognize the modem properly. The sound card can then be re-

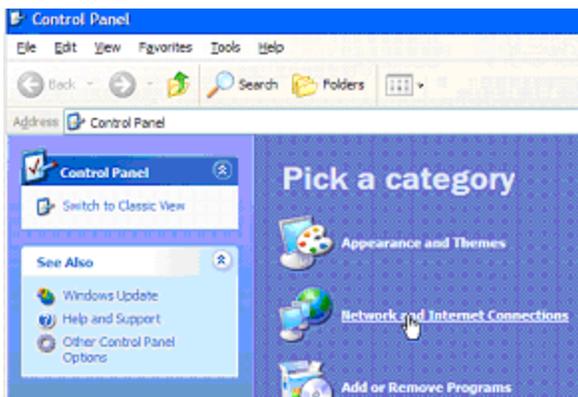
installed and the PC started again with all equipment recognized and functioning.

Creating a New Dial-Up Connection Icon

This procedure explains how to create an icon for connecting to the University's dial-up lines. If done correctly, you will have an icon in your "Dial-Up Networking" folder that will establish a PPP connection for you with only a few clicks of the mouse and some keystrokes.

From the **Start Menu**, select **Control Panel**.

Select the **Network and Internet Connections** icon from the Category list.



Select **Set up or change your Internet connection** from the Task list.



The Internet Properties window will open. Click **Setup...** This will open the "New Connection Wizard". Click **Next** to begin using the wizard.

In the **Network Connection Type** selection screen, choose **Connect to the Internet** and click **Next**.

In the **Getting Ready** screen, choose **Set up my connection manually** and click **Next**.

In the **Internet Connection** screen, choose **Connect using a dial-up modem** and click **Next**.

In the **Connection Name** screen, type "Pitt Dialup" (or whatever you wish to name your connection) in the **ISP Name** box and click **Next**.

In the **Phone Number to Dial** screen, the telephone number that you enter will vary, depending on where you are dialing

from and what University dial-up line you wish to use. The dial-up number for the Pittsburgh campus is (412) 297-7488. If you wish to dial into a regional campus, use one of the following numbers:

Bradford campus	(814) 362-7597
Greensburg campus	(724) 836-9997
Johnstown campus	(814) 269-7950
Titusville campus	(814) 827-4486

NOTE: Remember to always include the area code when dialing in.

If you are dialing from on-campus, remember to add a **9** before the number (for example, **9 412-297-7488**).

To shut off call waiting from an on-campus phone, add a **#9** before the **9** (for example, **#9 9 412-297-7488**). The code to shut off call-waiting for most phone systems outside of the Pitt system is ***70** (for example, ***70 412-297-7488**).

In the **Internet Account Information** screen, enter your University Computer Account username in the **User name** field and your password in both the **Password** and **Confirm password** fields.

You may leave the three option boxes in this screen checked, or uncheck any you do not wish to apply. Click **Next**.



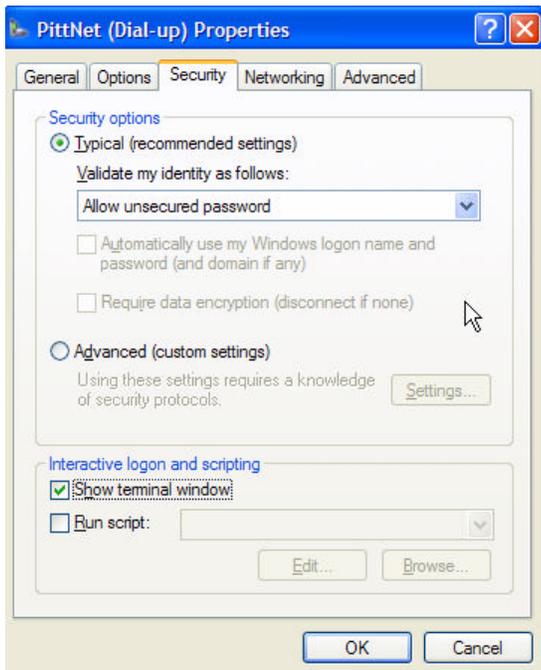
NOTE: If you enter your password differently in the **Password** and **Confirm password** fields, the wizard will warn you and will not allow you to continue until the fields match.

In the **Completing the New Connection Wizard** screen, check the **Add shortcut to this connection to my desktop** box and click **Finish**.

Once the wizard has completed, you will be back in the **Network and Internet connections** window. Select the **Network Connections** icon. The **Network Connections**

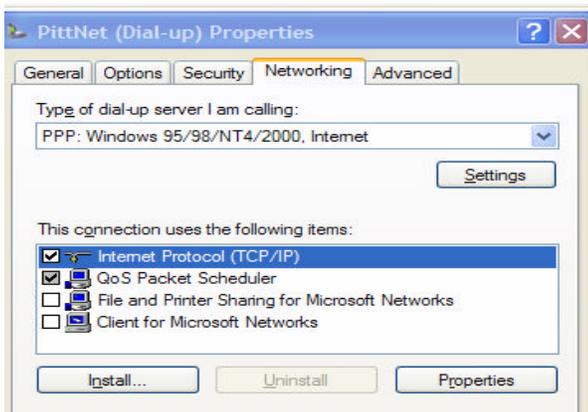
window will open, and you will see an icon for your connection to Pitt. Right-click on the icon and select "Properties".

The **Properties** window will open. Click the **Security** tab.

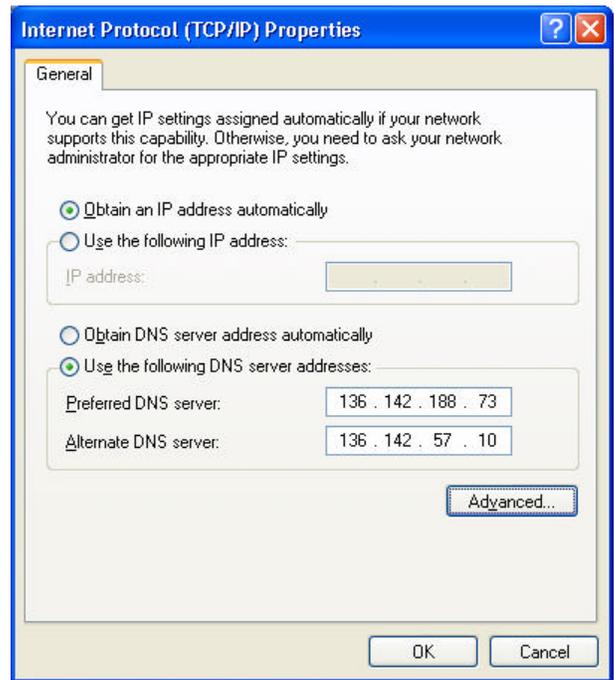


In **Security Options**, select **Typical**. In **Interactive Logon and scripting**, select **Show Terminal Window**.

Click the **Networking** tab.



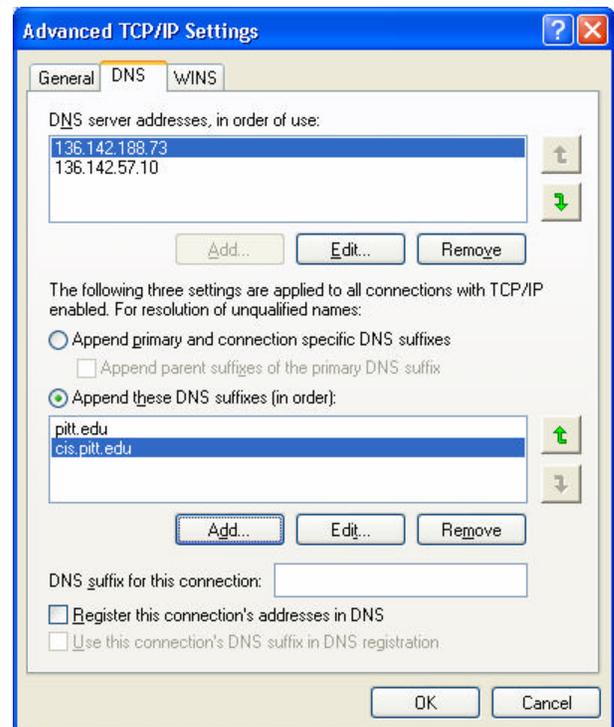
Select "Internet Protocol (TCP/IP)" from the list and click on the **Properties** button. The **Internet Protocol (TCP/IP) Properties** window will open.



Select **Obtain an IP address automatically**.

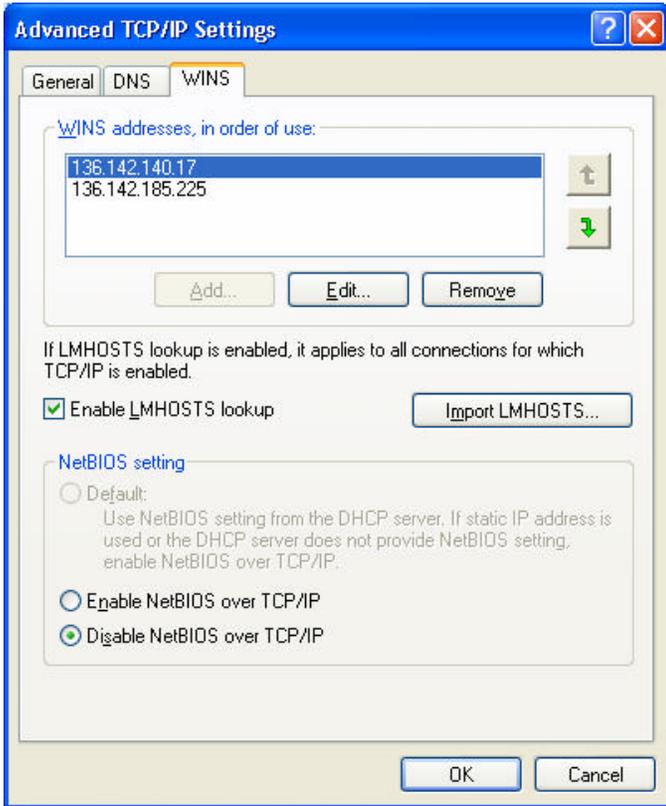
Select **Use the following DNS server addresses**. Use **136.142.188.73** as the Preferred DNS server and **136.142.57.10** as the Alternate DNS server.

Click on the **Advanced...** button. The **Advanced TCP/IP Settings** window will open. Click on the **DNS** tab.



Select **Append these DNS suffixes (in order)**. Click on the **Add...** button and add "pitt.edu" and "cis.pitt.edu" to the list of DNS suffixes.

Click on the **WINS** tab. Click the **Add...** button and add the following WINS addresses: **136.142.140.17** and **136.142.185.225**.



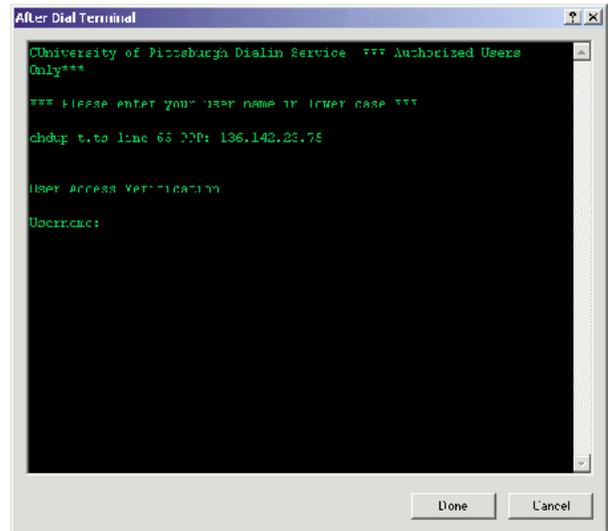
Click **OK**. You will return to the **Internet Protocol (TCP/IP) Properties** window. Click **OK** again to return to your connection properties window, and **OK** a third time to close the properties window.

Dialing in and Making your PPP Connection

1. Double-click on the connection shortcut on the desktop. Make sure the phone number in the Dial field matches the number you entered in the New Connection wizard.
2. Click the **Dial** button.



3. A small connection dialog box appears. You will know that your modem is working correctly if you hear dialing tones, low-pitched static, high-pitched static and then silence.
4. If the connection is successful, the "After Dial Terminal" window appears. This screen displays the welcome text from the Pitt Dial-up service.



You will be prompted for your University Computer Account username and password. Enter both of these. If your login is

successful, you will be presented with a **Local>** prompt. **DO NOT attempt to log into UNIX or VMS from this prompt.** For timesharing access, use the Telnet utility. Instructions for accessing Telnet and FTP are listed in the next section.

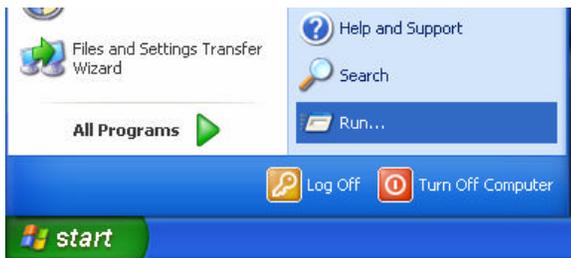
At the **Local>** prompt, type in "ppp" and press **Enter**. Then click the **Done** button.

NOTE: To disconnect from a PPP login, double-click on the minimized icon for the connection or the system tray icon and click the **Disconnect** button. Make sure that you quit all Internet-based applications first.

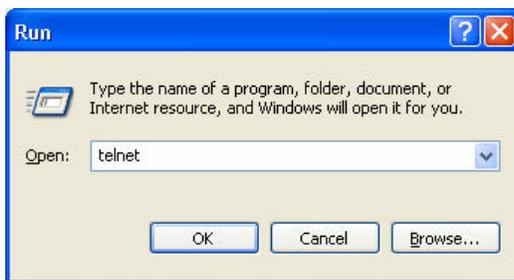
Running Telnet and FTP

In addition to PPP dial-up software, Windows XP includes versions of Telnet terminal emulation software as well as a file transfer protocol (FTP) utility. Both of these utilities can be accessed via the "Start" button.

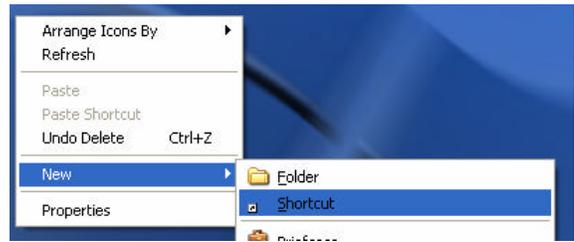
1. Click the **Start** button. The **Start** menu will appear with the "Run..." command near the bottom right. While continuing to hold down the mouse button, move the mouse pointer until it is over the "Run..." command and then release the mouse button.



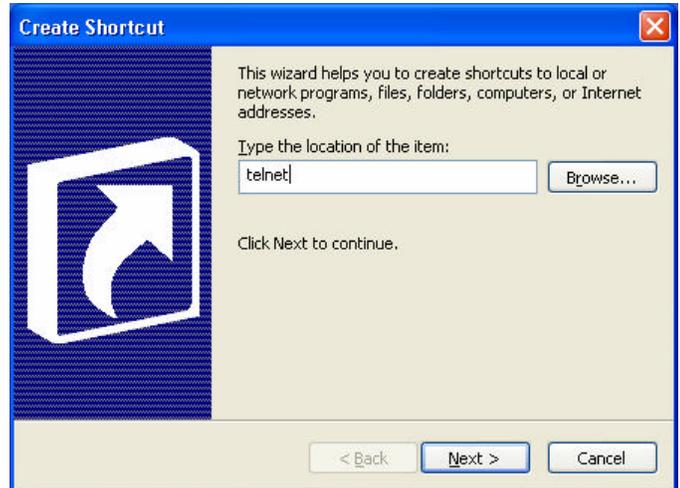
2. The **Run** dialog box will appear. To run FTP, type "ftp" in the **Open:** field. To run Telnet, type "telnet" in the **Open:** field.



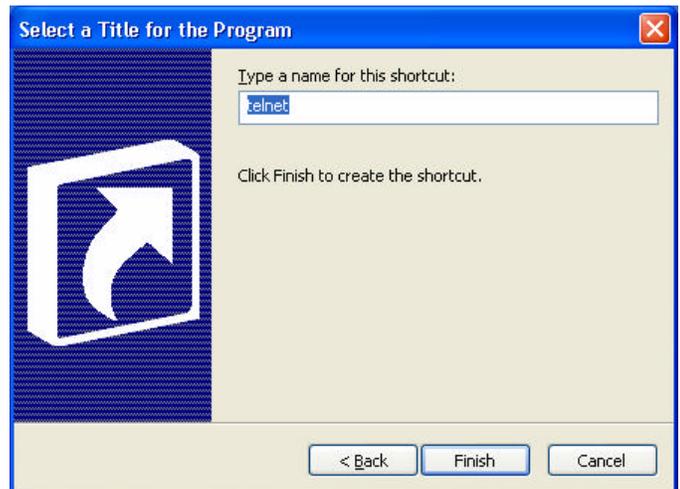
3. Click the **OK** button. This will begin running either Telnet or FTP. If you think that you will be using either or both of these utilities a great deal in the future, you may want to create a shortcut icon for them on your desktop.
4. To create a shortcut for either Telnet or FTP, right-click on your desktop. Select "New" from the pop-up menu and then "Shortcut" from the drop-down menu.



5. The "Create Shortcut" wizard will open. In the **Type the location of the item:** field, type either **telnet** or **ftp** and click **Next**.



6. Enter a name for the shortcut in the **Select a Title for the Program** window.



7. Click **Finish**. The new shortcut will appear on the desktop of your computer.

Getting Internet Software

Most users of Internet services such as the Pitt PPP service are anxious to use browse the web or read their email. You can acquire a CD that contains Internet (and other) software from any Campus Computing Lab or from Software Licensing Services (SLS). SLS is located in 203 Bellefield Hall.

Closing your PPP connection

It is important to remember to close your PPP connection when you are finished using Internet utilities since access to the Internet is becoming increasingly more valuable. This is done by double-clicking on your minimized dial-up connection and then clicking the **Disconnect** button.

Getting Help

For software usage or PPP setup questions, contact the **Help Desk** at (412) 624-HELP [4357] or via the Web at <http://technology.pitt.edu>.

The Help Desk is available 24 hours a day, seven days a week. The consulting staff is familiar with this procedure and most of the popular Internet utilities.