

Windows XP: Dial-Up Networking

Before you begin, make sure that you have the following items:

1. A modem.
2. An ANL domain account.
 - a. If you know your ANL domain account and you want to test it or change it, go to <https://credentials.anl.gov>
 - b. If you do not know your ANL domain account information, call Account Services at 2-9999 and ask for assistance.
3. Cisco VPN Client Software, found at <https://credential.anl.gov>.

Your Windows XP computer must be configured to use special telephone access numbers that route directly to the Laboratory's remote access termination equipment.

- Local calls: Special dial-up telephone circuit numbers are provided for users so that those telephone calls will be charged by the telephone carrier as a local telephone call. Local telephone calls are calls in the Bank "A" zone, which are eight calling miles or less. To find your dial-up access telephone number, please go to [Focal dialup](#).
- Domestic long distance calls: CIS provides a 1-800 access number for people traveling outside Illinois but within the United States. This 800 number is restricted to ANL use only: 1-800-997-1926.
- International calls: CIS also provides a long distance international number serving people outside the United States: 630-972-2050. The caller is responsible for phone charges to this number.

The Laboratory dial-up access system supports V.90 compliant 56K modems that achieve actual connection speeds of up to 53.2K. Actual speeds will vary according to the quality of the telephone line between the home and the serving central office. Typical connections should range from 33.6 to 50K.

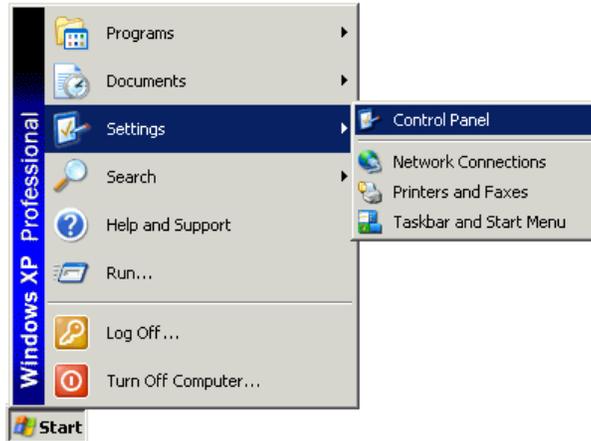
There are two steps in achieving a successful dialup modem connection to the laboratory network. The first step is to configure the Windows dialup networking properties. The second step is to configure the Cisco VPN Client software.

STEP 1: Establishing a PPP Dial-Up Connection

1. Click on the **Start** menu, and select **Control Panel**.



Note: If you are running Windows XP in classic mode, select the **Start** menu, select **Settings**, and then choose **Control Panel**.



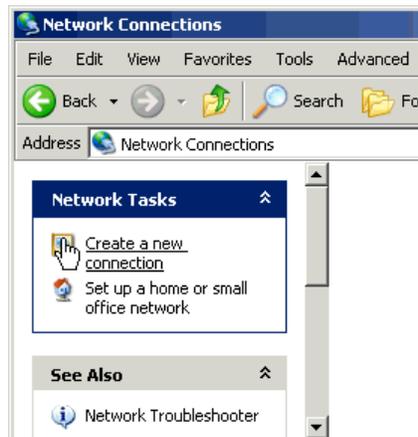
2. Click the **Switch to Classic View** icon.



3. Double-click the **Network Connections** icon.



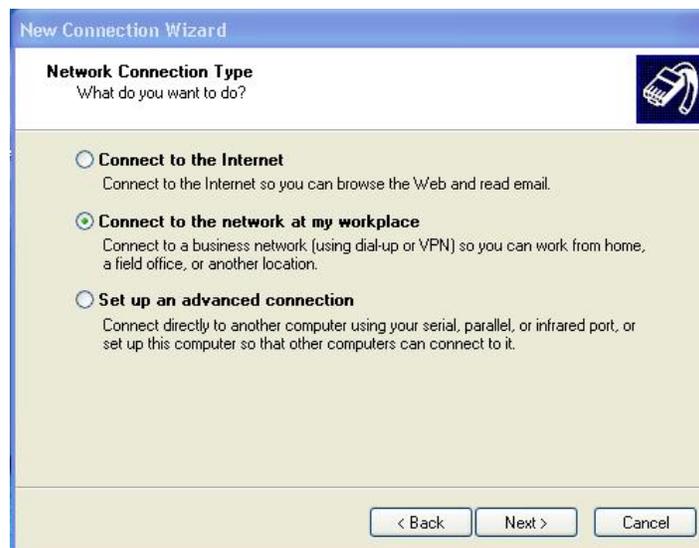
4. Click the **Create a new connection** icon.



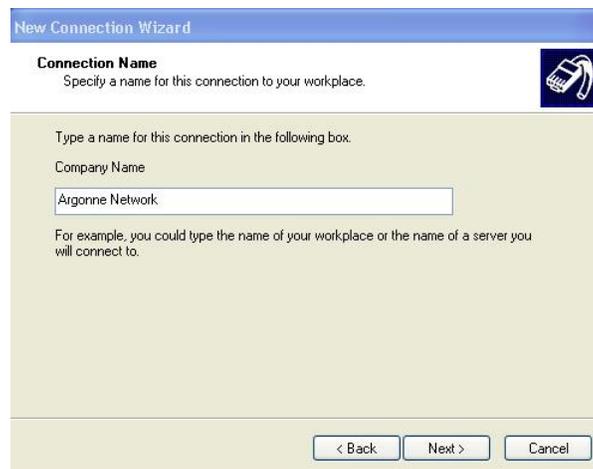
5. Click the **Next** button.



6. Select **Connect to the network at my workplace**. Click the **Next** button.



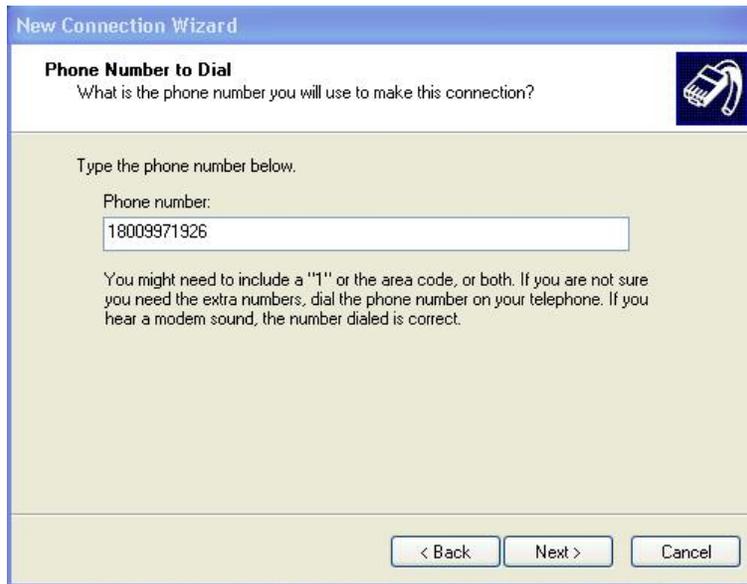
7. In the **Company Name** field, enter "Argonne Network" to identify your connection. Click the **Next** button.



8. In the **Phone Number** field, type in the phone number you wish to dial. Click the **Next** button.

Available phone numbers to use are:

Long distance	1-800-997-1926	33.6K/56K
Local FOCAL Dial-up	xxx-xxx-7755	33.6K/56K
International	630-972-2050	33.6K/56K



New Connection Wizard

Phone Number to Dial
What is the phone number you will use to make this connection?

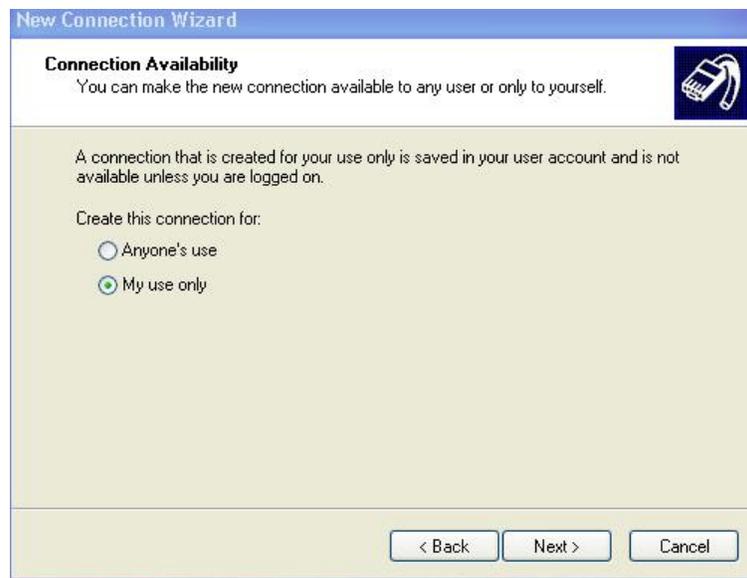
Type the phone number below.

Phone number:

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.

< Back Next > Cancel

9. Select **My Use Only**. Click the **Next** button.



New Connection Wizard

Connection Availability
You can make the new connection available to any user or only to yourself.

A connection that is created for your use only is saved in your user account and is not available unless you are logged on.

Create this connection for:

Anyone's use
 My use only

< Back Next > Cancel

10. This completes the steps needed to create your Argonne Network connection. If you want a shortcut icon on your desktop, check **Add a shortcut to this connection to my desktop**. Click **Finish**.



11. On your desktop double-click your **Argonne Network** shortcut icon, or click on the **Start** menu, then click **Connect To**, then select **Argonne Network**.



12. Fill in **Username** and **Password** fields with your ANL domain account information.



Click the **Properties** button to verify your settings. Make sure the correct modem is set up and selected, and make sure the telephone number is correct.



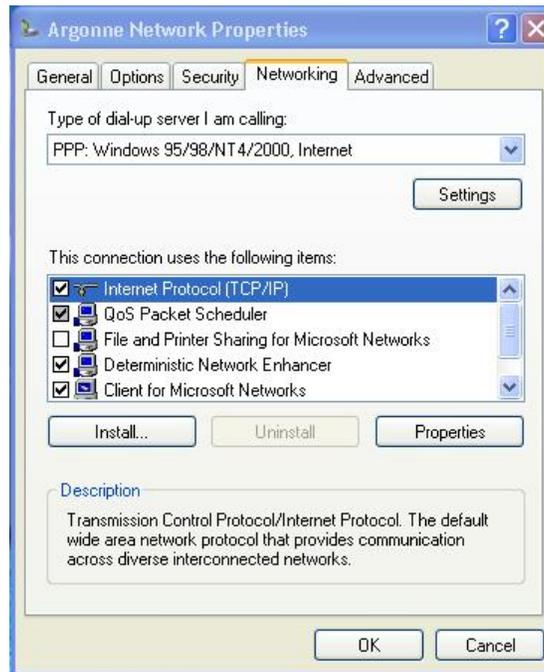
Select the **Options** tab.



Select the **Security** tab.



Select the **Networking** tab.



Highlight the **Internet Protocol (TCP/IP)** line and select the **Properties** button. Click **OK**.



Select the **Advanced** tab.



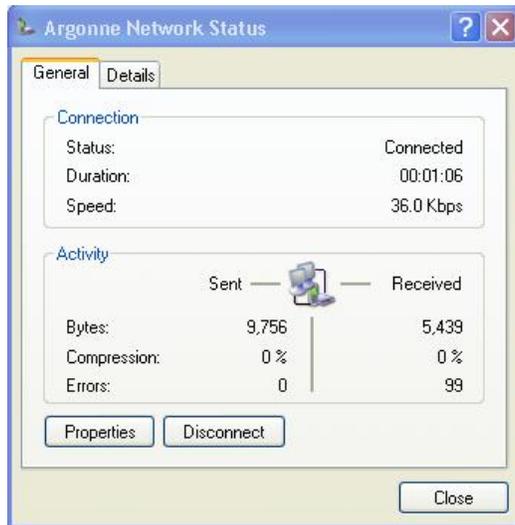
When finished select **OK**.

Select **DIAL** to connect to Argonne's network.

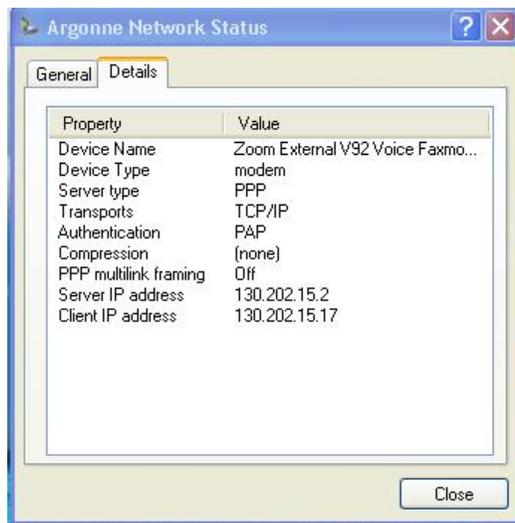
The following windows should appear.



13. When you are connected, an **Argonne Network** connection icon will appear in the lower right corner of the toolbar. Right click on it and select **Status**; the following screen will appear. This window shows your connection status, connection duration, and your connection speed.



Click the **Details** tab. This window shows your device type and brand name, server type, transports, authentication type, and server and client IP address assigned by the dial-in server.

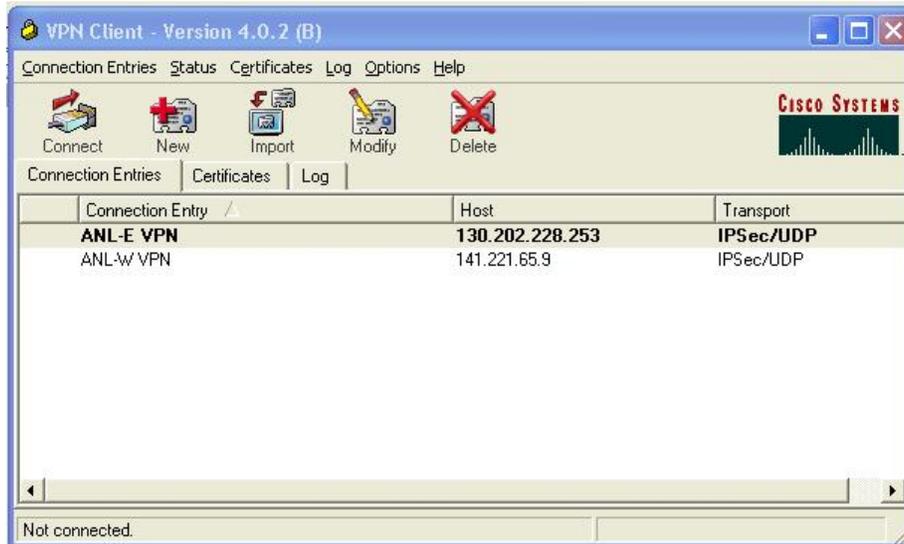


THIS COMPLETES THE FIRST STEP IN ESTABLISHING A CONNECTION TO THE LABORATORY

STEP 2: Establishing a VPN Connection

After establishing a PPP dial-up connection to the laboratory, you will need to run the Cisco VPN software to reach behind Argonne's firewall.

Go to the **Start** menu, and select **All Programs**, then **Cisco Systems VPN Client Program**, then **VPN Client**. The following screen will appear. Highlight the **ANL-E VPN** line and select the **Connect** button at the top.



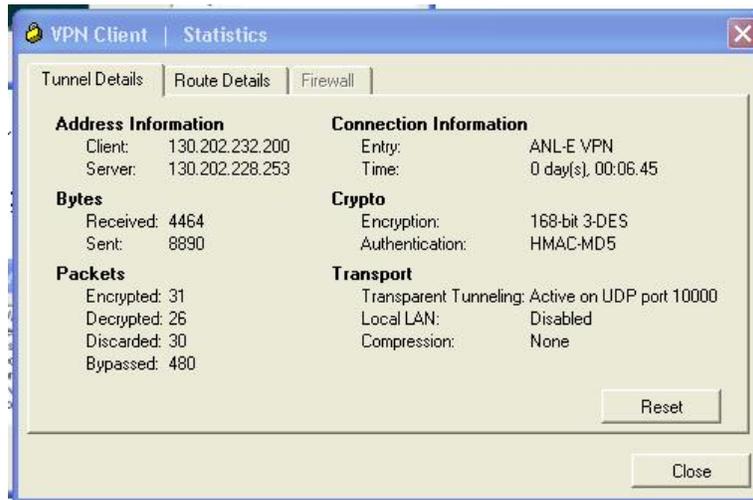
The following login screen will appear: Enter your **ANL domain Username and Password**, and click **OK**.



After authenticating, the Federal US Government Warning Banner will appear. Select **Continue**.



This completes the VPN connection process. Right-click the VPN Dialer Lock in the right corner of the toolbar to see statistics, etc.



THIS COMPLETES THE SECOND STEP IN ESTABLISHING A CONNECTION TO THE LABORATORY; YOU ARE NOW CONNECTED TO ARGONNE'S NETWORK BEHIND THE FIREWALL.

Disconnecting

1. Disconnect the VPN connection: Right-click the **VPN Dialer Lock** icon in the lower right corner of the toolbar. Select **Disconnect**.
2. Disconnect the PPP dial-up connection: Right-click the **Argonne Network** icon in the lower right corner of the toolbar. Select **Disconnect**.