

# Dialing Into Dartmouth With Windows 95/98

## Who needs this document?

Any member of the Dartmouth community who wants to gain access to Dartmouth's network resources, such as electronic mail and the Internet, from a remote location using a computer running Windows 95/98. This document explains how to set up your computer so you can dial into Dartmouth's network. It also explains how to be sure your hardware is working properly. If you have questions, please contact the Computing Help Desk

at 646-2999 and select from the options provided, send electronic mail to **Help@dartmouth.edu**, or call your division's computing support office.

## What do I need to get started?

You must know your Dartmouth Name Directory (DND) name and password — the same name and password you use to access *BlitzMail* and other password-protected services.

You must know your user name and password for the Wilson server, which is different from your DND name and password, if you are going to use public printers or KeyServed software. To request a Wilson account, send an e-mail message to **wilson.account@dartmouth.edu**.

Windows 95/98 must be installed and properly configured on your computer. You may want to keep your installation CD-ROM or disks handy in case you are prompted for files that are not on your hard drive.

And you'll need a properly installed modem that supports at least 9,600 baud and is recognized by Windows 95/98.

## How do I make sure the modem is set up correctly?

Many common dial-up problems are caused by an improperly installed modem. Follow the directions below to make sure your modem is installed properly.

1. Click the **Start** button, move to **Settings**, and click **Control Panel**.
  2. Double-click the **System** icon.
  3. Click the **Device Manager** tab and double-click the **Modem** entry.
  4. Make sure that your modem is correctly identified, is not flagged with an error (a yellow exclamation point or a red **X**), and is listed only once.
  5. Double-click on the name of your modem to open its **Properties** window. On the **General** tab, make sure that its status is listed as "This device is working properly." Any errors must be corrected by following the directions supplied by the modem manufacturer before proceeding.
  6. Click **OK** twice to close the System application.
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**How do I make sure Windows 95/98 is set up properly for a dial-up session?**

Windows 95/98 has built-in tools that allow you to connect with remote computers such as the ones at Dartmouth. The directions below show you if dial-up networking is installed, and how to install it if it isn't.

1. Check to see if **Dial-Up Networking** is already installed. Double-click the **My Computer** icon on your Desktop and look for a "Dial-Up Networking" folder. If it is not present, install it as follows:
  - a. Click the **Start** button, move to **Settings**, then click **Control Panel**.
  - b. Double-click the **Add/Remove Programs** icon. Click the **Windows Setup** tab, and then select **Communications**.
  - c. Click the **Details** button and make sure all communications components are checked.
  - d. Click **OK** twice. You may be prompted for your original Windows 95/98 CD-ROM or disks.
  - e. Restart your computer if prompted to do so.
2. Click the **Start** button, move to **Settings**, then click **Control Panel**.
3. Double-click the **Network** icon.
4. Select **Dialup Adapter** and click **Properties**.
5. Select the **Driver Type** tab and ensure that **Enhanced mode (32 bit and 16 bit) NDIS driver** is selected.
6. Click **OK** twice to close the Network application.

**How do I configure my Windows 95/98 machine to use the Internet and the World Wide Web?**

1. Open the **Network** Control Panel by clicking **Start**, moving to **Settings**, then clicking **Control Panel** and double-clicking the **Network** icon.
  2. Check to see if TCP/IP appears in the top box on the **Configuration** tab. If it's not there, install it by clicking **Add**, then double-clicking **Protocol**, then **Microsoft**, then **TCP/IP**. Finally, click **OK**.
  3. To configure, highlight **TCP/IP** and click **Properties**. (If TCP/IP is listed more than once, select the one that points at your modem.) If you are running Windows 98 and the **TCP/IP Properties Information** dialog box pops up, click **OK**.
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4. Click the **IP Address** tab. Select the **Obtain an IP Address automatically** radio button.
5. Click the **WINS Configuration** tab. Select **Use DHCP For WINS Resolution**.
6. Click the **Gateway** tab. Highlight and remove any installed gateways.
7. Click the **DNS Configuration** tab. Select the **Enable DNS** radio button. Under **Host**, enter your last name, and under **Domain**, enter **Dartmouth.edu**. Leave the rest of the fields blank. Click **OK** to close the TCP/IP Properties window.
8. At the Network Control Panel, click the **Configuration** tab and double-click **Client for Microsoft Networks**. Make sure the **Log on to Windows NT Domain** is selected. In the **Windows NT Domain** box, enter **Dartmouth**. Select **Logon and Restore Network Connections**. Click **OK**. Make sure the **Primary Network Logon** field is set to **Client for Microsoft Networks**. If you want to be able to access your computer from another location, if you want to give access to your computer to others, or if you want to share your printer with others, click on **File and Print Sharing** and select the option(s) that you want to allow. Click **OK** to close the window.
9. Click the **Identification** tab. Set **Computer Name** to your last name. Set **Workgroup** to **Dialup**. Click **OK** to close the Network Control Panel window. Restart your computer.

### How do I set up a new dial-up connection for accessing Dartmouth with my Windows 95/98 computer?

The steps below show you how to configure Windows 95/98 for a dial-up session with the Dartmouth network. You'll only have to do this once. When you're done, you'll end up with an icon that you can double-click to initiate a dial-up session with the Dartmouth network.

1. On the Desktop, double-click **My Computer**. Then double-click the **Dial-Up Networking** folder.
2. Double-click **Make New Connection**.
3. Enter **Dartmouth** for the name of the computer you are dialing. If you create multiple dialup connections, name them differently. Make sure your modem is correctly identified. You should not need to click the **Configure** button if you have performed all the above steps. Click **Next**.
4. Dartmouth provides four different numbers for modem access. You can use any of them.

For connections that need to be longer than 30 minutes, and Hanover, NH is a local call, enter the following information in the next window:

Area code:	<b>603</b>
Telephone number:	<b>653-5250</b>
Country code:	<b>United States</b>

For connections that need to be longer than 30 minutes, and Hanover, NH is not a local call, but White River Junction, VT is, enter the following information in the next window:

Area code: **802**  
Telephone number: **299-1111**  
Country code: **United States**

For connections that are local to Bradford, VT, enter the following information in the next window:

Area code: **802**  
Telephone number: **449-1111**  
Country code: **United States**

For express service where you only need to be connected for 30 minutes or less, and Hanover, NH is a local call, enter the following information in the next window:

Area code: **603**  
Telephone number: **643-0102**  
Country code: **United States**

This number will be retired sometime in 2003. Therefore, you should use it only if you have tried the appropriate numbers above.

If neither of the numbers above are local calls, select the Hanover modem pool that corresponds to the length of time you will need a connection.

Click **Next**, then **Finish**.

5. Right-click the newly created **Dartmouth** icon in the **Dial-up Networking** folder and select **Properties** from the menu.
6. Click the **Server Types** tab. Make sure that **Type of Dial-Up Server** is set to **PPP: Internet, Windows NT Server, Windows 98**. Make sure that **Log on to network**, **Enable software compression**, and **TCP/IP** are the only boxes checked.
7. Click the **TCP/IP Settings...** button. Make sure that the **Server assigned IP address** and **Server assigned name server addresses** radio buttons are selected. Make sure that **Use IP header compression** and **Use default gateway on remote network** are both checked. Click **OK** twice.

### **How can I be sure my remote Windows 95/98 connection to Dartmouth is working?**

1. Double-click the **Dartmouth** dial-up icon in the **Dial-Up Networking** folder. Enter your name and password as they appear in the DND. Make sure the correct phone number appears. (A phone number like "1 603 643-0102" will appear if you checked "use country code and area
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code" in your dial-up connection and your "dial properties" indicate you are calling from outside the 603 or 802 area code.)

2. Click **Connect**.
3. You may see one or two windows while the computer is connecting, depending on which release of Windows you are running. You may also receive a first-time informational window that can be closed. When the Connecting to Dartmouth window closes, go to the next step.
4. Click the **Start** button, then **Programs**, then **MS-DOS Prompt**. Type **ping www.dartmouth.edu** (in lower-case letters) at the DOS prompt and press **[Enter]**. After a moment, you should see a reply from the Dartmouth computer. If you see one or more lines that begin **Reply from 129.170.16.79**, then you have successfully set up your remote connection. Type **exit** and press **[Enter]** at the DOS prompt to close the DOS window.
5. To end your session and hang up, double-click on the connection icon in the lower right section of your screen and click **Disconnect**.

If you can successfully **ping www.dartmouth.edu**, you should be able to run *BlitzMail*, *Internet Explorer*, *Netscape Navigator*, or any other Windows application available on the Dartmouth network.

### **How do I configure my Windows 95/98 computer if I want to be able to use an Ethernet connection sometimes and dial in sometimes?**

1. Set up your computer following the instructions in the "Setting Up Windows 95/98 on the Dartmouth Network" handout.
2. Create the Dartmouth connection icon (connectoid) as outlined in this document under the section "How do I set up a new dial-up connection for accessing Dartmouth with my Windows 95/98 computer?".

If you permanently mapped a drive letter to the Wilson server while connected via Ethernet, you may get an error message when first starting the computer during a dial-up session. This is caused by your computer trying to find the Wilson server before it is connected. In this case, click **Cancel** and your system will continue to start up.

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