Connecting to the Internet via Modem (Windows 95/98)

To access the Internet with a modem, you must use **PPP**. PPP stands for Point-to-Point Protocol. It is a means of providing Internet connectivity, including access to Email, FTP, telnet, and the World Wide Web, via modem connections.

**What You Will Need**
- An IBM-compatible PC running Windows 95/98 and a 14.4Kbps or faster modem.
- A USC computer account on a host whose accounts are managed by ISD (e.g. scf, bcf, rcf, hsc, pollux, chem1). More information on computer accounts can be found online ([www.usc.edu/isd/services/accounts](http://www.usc.edu/isd/services/accounts)).
- The Windows 95/98 CD-ROM that came with your computer. If you do not have a Windows CD-ROM, please see the FAQ for your version of Windows ([www.usc.edu/isd/doc/os/win](http://www.usc.edu/isd/doc/os/win)).
- Internet tools for Windows 95/98 are available online ([www.usc.edu/software](http://www.usc.edu/software)) or via the Internet Tools CD-ROM.

**Installing Dial-Up Networking**

The PPP software that is built-into Windows 95/98 is called **Dial-Up Networking**. To use this software, you must first make sure that it is installed. To do this:
- Click on the **Start** menu, select **Settings** and then **Control Panel**.
- In the **Control Panel** window, double-click on the Add/Remove Programs icon.
- In the Add/Remove Programs Properties window, click on the **Windows Setup** tab.
- Select **Communications** from the list of Components.
- Click on the Details... button.
- In the Communications window, locate **Dial-Up Networking** in the list of Components. Add a check mark next to **Dial-Up Networking** if one is not already present.
- In the Communications window, click on the OK button.
- In the Add/Remove Programs Properties window, click on the OK button, and restart the computer.

**Installing a Dial-Up Adapter and TCP/IP**

You must now install a Dial-Up Adapter and the TCP/IP protocol:
- Click on the **Start** menu, select **Settings** and then **Control Panel**.
- From the **Control Panel** window, double-click on the **Network** icon. A Network window will open and display a list of installed network components.

**Note:** If the Dial-Up Adapter and/or the TCP/IP network components are already installed, do not add them a second time.
- In the **Network** window, click the Add... button.
- Choose **Adapter** from the list and then click on the Add... button. A Select Network Adapters window will open.
- From the **Manufacturers** list, select **Microsoft**.
- From the **Network Adapters** list, choose **Dial-up Adapter**.
- Click on the OK button.

The Dial-Up Adapter should be listed in the **Network** window. Now, you must install TCP/IP:
- In the **Network** window, click the Add... button.
- Select **Protocol** from the list of options and then click the Add... button.
- From the Manufacturers list, select **Microsoft**.
- From the Network Protocols list, choose **TCP/IP** and click on the OK button.

TCP/IP should now be listed in the **Network** window.
- From the **Network** window, click on the OK button, and restart the computer.

**Creating a PPP Connection**

After the computer restarts, you must create a Dial-Up Networking configuration.
- Click on the **Start** menu and select **Programs**, then **Accessories**. Windows 95 users, select **Dial-Up Networking**. Windows 98 users, select...
Communications, then Dial-Up Networking.

- If this is the first time you have used Dial-Up Networking, a Make New Connection window will automatically open. Click on the Next button and proceed to the next step below. If you have used this software before, a Dial-Up Networking window will open. Double-click on the Make New Connection icon.

- In the field *Type a name for the computer you are dialing*, type in a unique name, like *USC PPP*.

- In the area labeled *Select a device*, choose your modem type if it is not already displayed.

- Click on the Configure… button and a new dialog box listing your modem’s properties will appear.

- Select the General tab. Set *Maximum Speed* to 57600. Make sure that the *Only connect at this speed* box is not checked. Click on the OK button to close the dialog box.

- Windows 95/98 will return to the Make New Connection window, Click Next> to continue.

- The next window will prompt you for a phone number. Type in the appropriate number:
  - On-campus: 3-2222
  - Off-campus, inside 213 area: 743-2222
  - Off-campus, outside 213 area: 213-743-2222

- Click Next> to continue. In the window that appears, click on the Finish button.

Follow the remaining steps to finish the configuration.

- Click on the newly created icon with the right mouse button. Select Properties from the menu.

- Click on the Server Types button.

- In the Advanced options area, be sure that *Enable software compression* is the only item checked.

- In the Allowed network protocols area, verify that TCP/IP is the only item checked.

- Click on the TCP/IP Settings… button

- Select the Server assigned IP address option.

- Select Specify name server addresses and type in the following values:

  | Primary DNS: | 128.125.150.1 |
  | Secondary DNS: | 128.125.150.2 |

- Leave zeros in the WINS fields.

- Click on the ok button to return to the Server Types dialog box. Click on the ok button to return to the Connection dialog box. Click on the ok button to close the Dial-up Connection window.

### Connecting to USC

Follow the steps below to make a connection to USC.

- Double-click on the icon you have just created. A Connect To dialog box will appear.

- Enter your username in the Username field and your password in the Password field for your USC computer account.

- Click on the Connect button and your modem will make the connection.

Windows 95/98 will inform you when a connection has been established. You can now run any Internet applications installed on your computer.

### Disconnecting from USC

When you are finished, remember to disconnect.

- Open the Dial-Up Networking window and click the Disconnect button.

Note: If your session is idle for 15 minutes, the system will automatically disconnect.

### Getting the Internet Tools Software

The Internet Tools CD-ROM provides an Email client, telnet client, Web browser, and more on one convenient CD-ROM. The free CD-ROM is published by USC at the beginning of the fall and spring semesters and distributed through the USC bookstore. Copies of the CD-ROM can also be checked out from Leavey Library.

Installation instructions are found on the CD-ROM.