Connecting to the Internet via Modem (Windows NT)

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 NT 4.0 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).
- Your Windows NT CD-ROM, if it 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).
- Additional Internet tools for Windows NT are available online (www.usc.edu/software) or via the Internet Tools CD-ROM.

Installing the Remote Access Service

The PPP software that is built-into Windows NT is called Dial-Up Networking. To use this software, you must first install the Remote Access Service (RAS):

- 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.
- Click on the Services tab.

Note: If Remote Access Service appears in the list of Network Services, proceed to the next section, Installing TCP/IP.

- Click on the Add… button.
- Select Remote Access Service from the list of options and then click on the OK button.
- If an Add RAS Device window opens, select your modem from the list of RAS capable devices and click on the OK button.
- In the Remote Access Setup window, select your modem, then click on the Continue button.

Installing TCP/IP

You must now install TCP/IP.

- In the Network window, click on the Protocols tab.

Note: If TCP/IP Protocol appears in the list of Network Protocols, click on the OK button, restart your computer, and proceed to the next section, Creating a PPP Connection.

- Click on the Add… button.
- Select TCP/IP Protocol from the list of options, and then click on the OK button.
- Click on the Close button and restart your computer.

Creating a PPP Connection

You must now create a Dial-Up Networking entry.

- Click on the Start menu, select Programs followed by Accessories then Dial-Up Networking. A window will open.

- If this is the first time you have used Dial-Up Networking, the message: The phonebook is empty will appear. Click on the OK button and proceed to the next step below. If you have used this software before, a Dial Up Networking window will open. Click on the New button.

- The New Phonebook Entry Wizard window will open. In the Name the new phonebook entry field, provide a unique name to identify it from other phone book entries, for example, USC PPP, and then click on the Next button.

- In the next window named Server, check both I am calling the Internet and Send my plain text password if that’s the only way to connect. Click on the Next button.

- In the final window, named Phone Number, type the appropriate number based on your location.
  - On-campus: 3–2222
  - Off-campus, inside 213 area: 743–2222
  - Off-campus, outside 213 area: 213–743–2222

- Click on Next, and then on the Finish button.

Now that you have created a Dial-Up Networking
entry, you must configure it to connect to USC.

- From the *Dial-Up Networking* window click on the *More* button and select *Edit entry and modem properties*. The *Edit Phonebook Entry* window will open.

- Under the *Basic* tab, make sure that Windows NT has correctly identified your modem in the *Dial Using* area and that the *Entry name* and *Phone number* are set correctly.

- Click on the *Server* tab and verify that *Dial-up Server type* is set to *PPP: Windows NT, Windows 95 Plus, Internet*. Verify that *TCP/IP* is the only item checked under *Network Protocols* and that *Enable Software Compression* and *Enable PPP LCP extensions* are both checked.

- Click on the *TCP/IP Settings* button. The *PPP TCP/IP Settings* window will open.

- Select *Server assigned IP addresses*.

- Select *Specify name server addresses* and type in the following values:
  
  Primary DNS: 128.125.150.1  
  Secondary DNS: 128.125.150.2  

- Verify that *Use IP header compression* and *Use default gateway on remote network* are checked. Click on the *OK* button to close the *PPP TCP/IP Settings* window.

- Click on the *Script* tab and select *None*.

- Click on the *Security* tab and select *Accept any authentication including clear text*.

- Click on the *OK* button. You will be returned to the *Dial-Up Networking* window.

If you have call waiting and wish to disable it:

- Select the phone book entry you just created and click on the *Location* button. The *Location Settings* window will open.

- Select the appropriate Prefix from the list of prefixes. If you have Pacific Bell service, select: *70*. If you are on-campus or have another telephone service provider, select *40*.

- If your prefix is not listed, click on the *Prefix List...* button. A *Phone Number Prefixes* window will open. In the *New Prefix* field, type your prefix. Click on the *Add* button, and then click on the *OK* button. You will return to the *Location Settings* window. Select your prefix from the list, even if it is already highlighted.

- Click on the *OK* button.

### Connecting to USC

Follow the steps below to make a connection to USC.

- Select the phone book entry you just created and click on the *Dial* button to initiate the connection.

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

- Leave the *Domain* field blank.

- Click on the *OK* button and your modem will dial.

Windows NT will complete the connection and display an icon by the clock in the Windows TaskBar. You can now run any Internet applications installed on your computer.

### Disconnecting from USC

When you are finished, remember to disconnect the PPP connection.

- Open the *Dial-Up Networking* window and click the *Hang-Up* button.

Note: If your connection 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.