



## **Ethernet connections with Open Transport for Macintosh**

These instructions detail using Open Transport to connect to the University of Minnesota ethernet backbone. You should contact your network administrator before you start to make certain that your networking information is correct.

- Installing Open Transport
- Configuring AppleTalk
- Configuring TCP/IP for DHCP internet access
- Configuring TCP/IP for internet access

### **Before you begin...**

You should have the following items and information handy before you start installing and configuring software:

- Your system software disks or CD
- Your IP address (usually obtainable from NTS at <http://www.nts.umn.edu>), subnet mask, and gateway address. If you have your IP address, you can obtain the other values from the NTS netmask & gateway calculator at <http://www.nts.umn.edu/uintranet/iptell.html>.
- Confirmation that your etherjack is active (contact NTS or your network administrator for this).
- Your Internet ID and password. Your central University Internet ID/password are obtainable from ADCS. Departmental usernames and passwords should be obtained from your network administrator.

## Installing Open Transport

You will have better results if you use a current version of Open Transport (1.1.2). You can check to see if you have Open Transport installed, and the version you have installed by following these steps:

1. Go to the Apple menu, choose **Control Panels**, and look for control panels named **AppleTalk** and **TCP/IP**.
2. If you do **not** see **AppleTalk** or **TCP/IP**, but **do** see **Networking** or **MacTCP**, then you don't have OT but "classic" networking. See below to install OT, or check *the direct connection with MacTCP* page.
3. If you see **AppleTalk** or **TCP/IP**, open one of them, go to the **File** menu and choose **Get Info**. Your version of OT should be 1.1.1 or later. If you have an earlier version, see below to install OT.

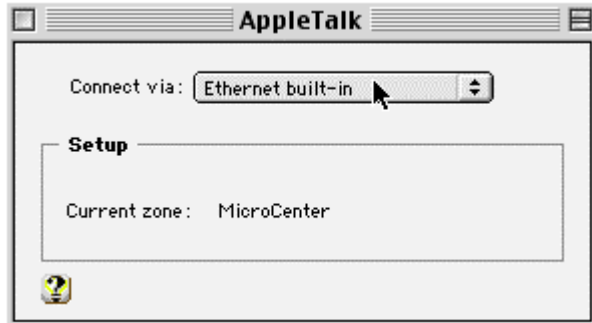
If you need to install OT, read on. If you don't, you can jump to the section on configuring *AppleTalk* or *TCP/IP*.

1. You can obtain the latest version of OT directly from Apple, (get the Net Install to download all installation files at once), or by copying it from the ADCS Info Server (Mac:System Updates:Networking & Communication), or by bringing four (4) high-density floppy disks to any ADCS Helpline and copying from the ADCS Info Server with the assistance of a helpline consultant.
2. Before installing OT on your Mac, you should remove any vestiges of the MacTCP and Networking control panels from your System folder and restart your computer.
3. Insert the first OT disk (or open the OT network installation folder), and double-click the installer. Follow the prompts to install OT. You will have to restart your machine when the installation is finished.

## Configuring AppleTalk

AppleTalk allows you to access other Macintosh computers and network servers via the Chooser.

1. Open the **AppleTalk** control panel.
2. Set **Connect via:** to **Ethernet**.

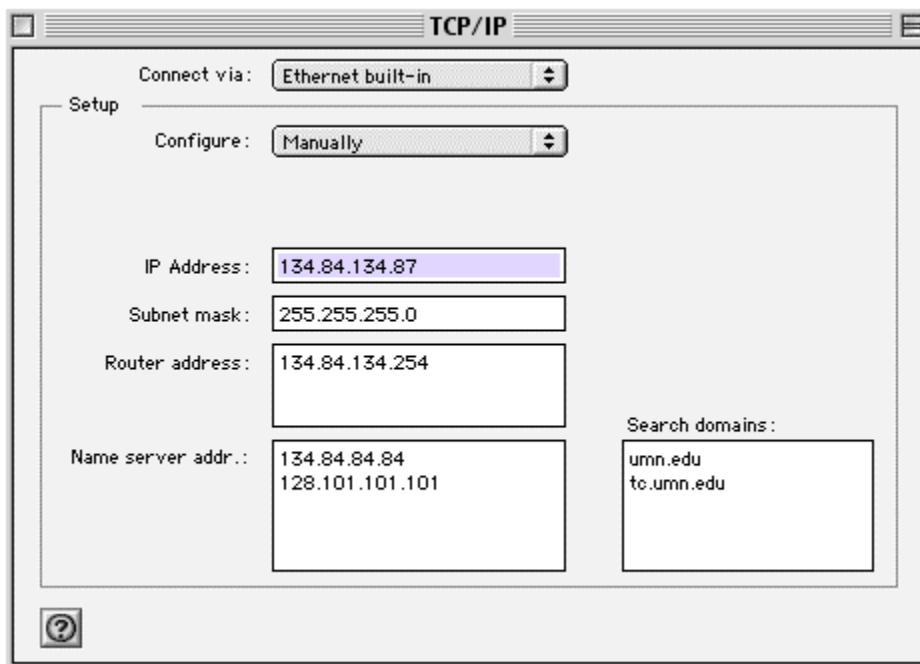


3. Select the appropriate AppleTalk zone for the Current zone value (consult your network administrator if you are unsure of what this should be).
4. Close the AppleTalk control panel by clicking the close box in the upper left-hand corner of the window. Click **Yes** when asked if you want to save the current configuration.

## Configuring TCP/IP

If you use DHCP in your department or are in University Housing then go on to *the Macintosh DHCP Configuration Guide*.

1. Open the **TCP/IP** control panel.
2. Set **Connect via:** to **Ethernet**, and **Configure:** to **Manually** (consult your network administrator, in case your network is set up to obtain the IP address via BootP or DHCP).
3. Enter your IP address in the **IP Address** field.
4. Enter your subnet mask in the **Subnet mask** field.
5. Enter your gateway/router address in the **Router address** field.
6. Enter **128.101.101.101** and **134.84.84.84** in the **Name server addr** box.
7. Enter **umn.edu** and **tc.umn.edu** in the **Search domains** box.



8. Close **TCP/IP**, and save your changes.

You should now be able to access the Internet using any internet application (i.e. Netscape, IE, POPmail, Telnet Fetch, etc.). If you don't have any internet applications, you can install them from the ADCS internet kit or use your AppleTalk connection to install them from the ADCS Information Server.