

# Windows NT Ethernet Setup

## Checking Network Adapters

If the network does not recognize your Ethernet card, it might be the absence of the drivers installed on the Operating System. After you install the card into the computer, you must also configure the software that accompanies the Ethernet card. You can verify this by seeing if the Ethernet card is recognized on the computer.

1. Open the **Control Panel** by selecting **Start -> Settings -> Control Panel**.
2. In the **Control Panel** double-click on the **Device icon** to display the list of the current devices installed on the computer.
3. **In the Device dialog box locate the name of the Ethernet card that should be installed on the computer. If the name of the Ethernet card displays, then the card is installed correctly.**
4. **If the name of the Ethernet card does not display, either the card is not plugged in correctly or the software is not installed correctly.**

## Disabling a Modem on a PC

Even when your Ethernet card is set up correctly, problems can still arise with getting connected. If the modem is still operative then the PC will always try to dial from the modem first, because it's the default.

The modem will have to be disabled; this is done so the Ethernet (network) card will still communicate with the network and the modem will not be deleted from the computer.

1. Open the **Control Panel** by going through **Start -> Settings -> Control Panel**.
2. Under the **Control Panel**, double-click the **Device icon** to open the dialog box.
3. Locate and choose the **Modem option** inside the hardware listed.
4. Click the **HW Profiles button** off to the left side.
5. Select the **Disable button** on the left hand side.

## Setting up Internet Explorer

Check IE has basically two settings that allow the computer to be used with a modem or on a LAN. You may have to set IE up for the LAN. To do this go to **Tools** -> **Options** and click on the **Connections Tab**. There click on **Setup**. A wizard should start up.

1. Choose the option that states **I want to set up my Internet Connection manually, or I want to connect through a LAN**.
2. Click **Next**.
3. Choose the option **I connect through a Local Area Network (LAN)**.
4. Click **Next**.
5. Check the box that says **Automatic Discovery of Proxy Server**.
6. Click **Next**.
7. It will ask the user to create a mail account...this is up to the user.

## Network Adapters

Some computers will just have a DialUp Adapter but others will have six or seven adapters that are installed by the manufacturer that need to be disabled. You need to disable everything except the Adapter for the Ethernet Card. To disable the adapters you do the same as you would with the modem by right clicking and disabling.

## Network Setup

At this point you should have your Ethernet adapter installed in your computer and the software drivers installed. (Refer to your installation manual for the Network Interface Card).

To verify whether

Windows has recognized your card click **Start, Settings, Control Panel, and Network**. You should see under the installed components a **small green icon** followed by the name of your Network Interface Card (in our case an *AsanteFAST 10/100 PCI Rev. B Adapter*).

There should also be a **small white and yellow icon** followed by the words **TCP/IP** and the name of your adapter (in our case it appears as *TCP/IP -> AsanteFAST 10/100 PCI Rev B Adapter*). This TCP/IP entry may also have **only** the white and yellow icon followed by the words **TCP/IP** depending on your particular software configuration.



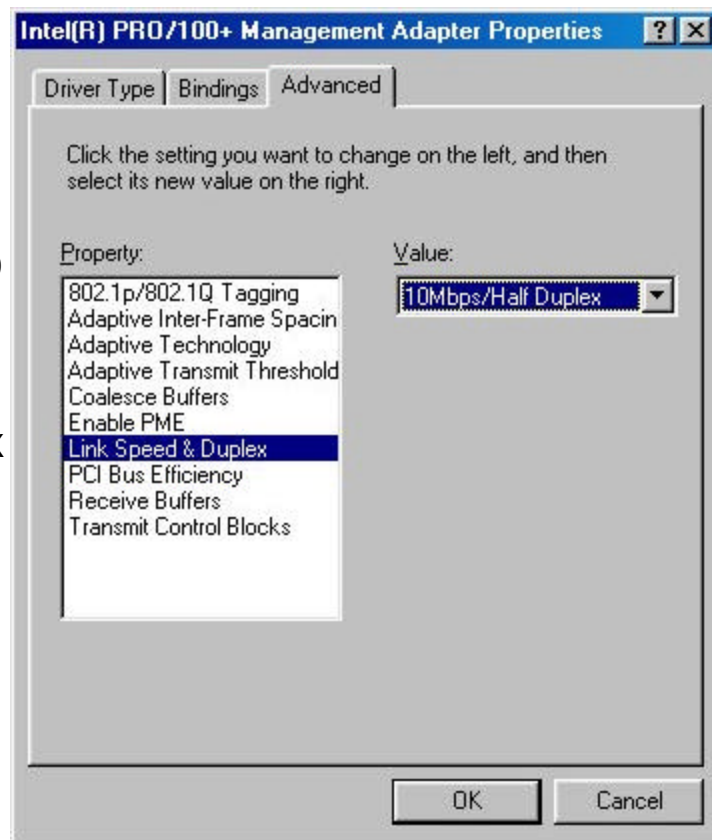
## Configuring Your Ethernet Controller

After left-clicking once on the adapter name (the entry next to the green icon that has the name of your Network Interface Card next to it), click on the **Properties button**. Then click the **Advanced tab**.

Now you will be able to set the network speed for **10Mbps** and the duplex mode to **Half**. You will do this by clicking on the property you wish to change that appears in the **Property box**

and then selecting the appropriate value from the drop-down **Value box** (see the graphic at right).

- The AsanteFAST adapter lists the property as the **Connector Type**. The **Value** should be **TP\_10** (use the drop down menu to select **TP\_10** from the **Value box**).
- The 3Com Fast EtherLink XL 3C905-TX lists the property as the **Media Type** and the Value should be **10Mbps Half-Duplex**.
- The Intel Pro100+ lists the property as the **Linkspeed & Duplex** and the value as **10Mbps/Half Duplex**.



Click **OK** in the **Adapter Properties window** to return to the main Network window.

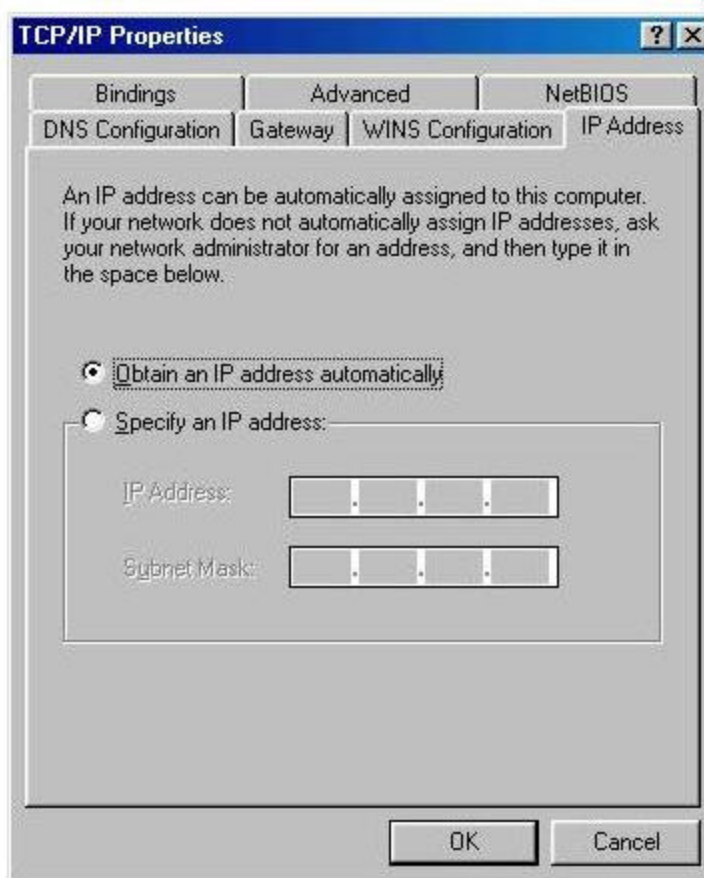
To be able to access the Internet you must configure your Ethernet card to communicate with SHSU's network. To do this, highlight the **TCP/IP** entry that is followed by your Network Interface Card name (e.g., *TCP/IP -> AsanteFAST 10/100 PCI Rev B Adapter*) by left-clicking it once. After highlighting it, click **Properties**.

To configure your Ethernet card:

- under the **IP Address**

**tab** you should select **Obtain an IP address automatically**.

- under the **WINS Configuration tab** use **DHCP** for WINS resolution.
- click the **DNS tab** and make sure the **Disable DNS** radial button is selected.
- leave the **Gateway tab** alone.
- leave the **NetBIOS tab** alone.
- leave the **Advanced tab** alone.
- leave the **Bindings tab** alone.
- Click **OK** in the **TCP/IP Properties window**.
- Click **OK** in the **Network window**.



You may be prompted to reboot your computer; if so then reboot.

## Troubleshooting

If you are certain no other machine has been plugged in your port, and if you are still having problems, try the following tips:

- Open an **MS/Dos Command prompt**.
- If you are a **Windows NT user**, and cannot find the command prompt, press **start** and go to **run**. In the window, type in **cmd**. You should get a new window that opens that will have a line that will look something like **c:\windows:**
- After the command prompt window is open, type in **cd..** as many times as necessary until you get a line that looks like **c:\**
- Next, type in **ipconfig** and press **return/enter**.

You should get something that looks like:

### Windows 98 IP Configuration

#### Ethernet adaptor 0:

```

IP
Address.....:
158.###.##.##
Subnet
Mask.....:
255.255.0.0
Default
Gateway .....:
158.###.##.##

```

If you do not show an IP Address in the 158.###.##.## range, type the following commands:

- **c:\ipconfig /release\_all** then:
- **c:\ipconfig /renew\_all** and then:
- **c:\ipconfig**. If you get the above listed response, attempt to access a web page.
- If you get more than one Ethernet adaptor showing, disable all other cards and any modems that are attached to the computer and reboot. Then attempt the above steps again. If you have questions on how to do this, stop at this point and contact the [HelpDesk](#) at extension 41950.
- After you have obtained an IP address in the 158.###.##.## range, type **c:\ping 158.135.10.9**

If the connection is set up properly, you should get this response:

**Pinging 158.135.10.9 with  
32 bytes of data:**

```

Reply from 158.135.10.9:
bytes 32 time<10mx
TTL=255

```

```

Reply from 158.135.10.9:
bytes 32 time<10mx
TTL=255

```

```

Reply from 158.135.10.9:
bytes 32 time<10mx
TTL=255

```

If you again receive a reply that looks similar to the above, type **c:\ping**

**mit.edu.** If you again receive a reply that looks similar to the above, your connection should be working properly. Attempt to log into your favorite web site to verify.

If at any step you receive a response of Destination Host Unreachable or Request timed out and your computer and cable are verified to be functional by a Service Center, contact the [Helpdesk](#) at **41950** for further assistance.