

# Home and Small Office Networking

“Linking Computers to the World”



# Network Types

- Ethernet—The current standard technology and the one most often used. Links computers via a cable and hub or router.
- HPNA (home phone line network adapter)—Links computers via household telephone lines.
- Wireless—Uses radio signals to link computers.

# Computers in the Same Room

- The most cost effective method of linking is Ethernet.
  - Each computer needs a network adapter.
  - Use a hub to connect the computers via RJ-45 cable.
  - Connect the hub to your cable modem or other internet connection.
- Wireless may also be used

# Computers in Different Rooms

- The most cost effective method is HPNA.
  - You need a USB HPNA network adapter for each computer.
  - Simply plug the computers into a phone line to connect them.
  - If you wish to connect to the internet, you need an adapter to connect to your modem.
- Ethernet can be used, but wires must be run through the infrastructure of the home.
- Wireless can also be used.

# Computers in the Same and Different Rooms

- The most cost effective method is to use an ethernet connection for computers in the same room, and HPNA connections for computers in different rooms.
  - Use a hub to connect computers in the same room.
  - You must have a HPNA adapter to connect the phone lines to the hub.
  - Connect the hub to a modem for internet access.
- Wireless is also possible.

# Run the WinXP Network Setup Wizard

- Do this first on the host computer, then on each client.
- On the host computer.
  - Click *start* and *control panel*.
  - Click *network and internet connections*.
  - Click *set up or change your home or small office network*.
  - Designate this computer as the “host” or the one sharing the internet connection.
- On the other computers.
  - Follow the first three steps above.

# Protect the Network

- On the host computer, go to the *network connections* in the *control panel*.
- Choose *Show internet connections*.
- Double click your *Local Connection*.
- Click the *properties* button.
- Choose the *Advanced* tab and make sure the “*Protect my computer.....*” *box is checked*.