



NETWORKING BASICS

You may have had some ideas about how to use your new network prior to installing this kit - sharing files, printing from an computer on the network, or accessing the Internet on multiple computers with one connection. This section will help you get started on those ideas or even give you some new ones. However, this section is not intended to be a comprehensive guide to networking, it is just an outline of a few networking basics.

Computer Identification

If you had previously given your Windows 98 computers names or if you are using Windows 98, you may need to verify that each computer has a unique name and common workgroup name.

- A. On your Desktop, right-click the icon "Network Places" and select "Properties" from the context menu.
- B. Click the "Identification" tab on the top of the dialog box.
- C. Type a unique, identifying name for this particular computer in the "Computer name:" box. This will be the name that other computers on your network will use to communicate with this computer. Each computer's name must be unique on a particular network or confusion will result. (The computer's name should be 15 or fewer characters with no spaces.)
- D. Type the workgroup name this computer will be a part of in the "Workgroup:" box. All of the computers on your network should have an identical Workgroup name.
- E. The "Computer Description:" box is optional. You may enter a description that will help you identify this computer on your network. Then click "Close."
- F. Repeat this process for each computer on your network to ensure that they all have a unique "Computer Name" and identical "Workgroup."

Sharing Files

With your computers connected together on a network, you may now open and save files on another computer. You will be able to specify particular folders or disk drives to "share" and even password protect them. The steps below will enable you to share specific files and folders with other computers on your network.

- A. On your Desktop, right-click the icon "Network Places" and select "Properties" from the context menu.
- B. This dialog box is where you will come to configure most of your computers network settings. It is also available through the "Network" icon in the Control Panel.
- C. Click the "File and Print Sharing." button.
- D. Click to place a check mark next to "I want to be able to give others access to my files."
- E. Click "OK" on the "File and Print Sharing" dialog box.
- F. Click "OK" on the "Network" dialog box.
- G. Provide the Windows 98 installation CD or diskette(s) if prompted or direct Windows to the proper location of the installation files. Reboot if prompted.
- H. You will now be able to identify a particular folder or disk drive to share. You may want to share a folder that both you and a colleague/family member needs to access occasionally. Or, maybe you want to share a CD-ROM drive so your other computer that does not have one can read CD's. Both of these processes are the same. Only the disk drives and folders that you specifically identify as shared will be accessible to other computers on your network.



- I. Find the disk drive or folder you want to share with Windows Explorer or the "My Computer" icon on your desktop.
- J. Right-click on the disk drive or folder icon and select "Sharing."
- K. Select "Share As:" to set the parameters for sharing this particular disk drive or folder.
- L. The "Share Name:" box is used to identify the disk drive or folder you are sharing to other computers on the network. You can give it any name you wish. However, a specific identification may help as more resources on your network are shared.
- M. The "Comment:" box is optional. You can use this box to further describe the disk drive or folder for others on the network.
- N. "Access Type:" allows you to designate how much someone else on the network can do with this disk drive or folder. "Read-Only" allow others to only look at or open the files on the disk drive or in the folder. "Full" allows others to read, write, open, save, copy, move, and delete files on the disk or in the folder. "Depends on Password" gives other computers access conditional upon the password they provide.
- O. "Passwords:" allow you to apply a level of security to your shared disk drives and folders. Another computer (user) will be required to enter the password you designate here before accessing the disk drive or folder. Two passwords are used to give two levels of security (or access) to others on the network using the "Depends on Password" setting. Leaving the "Password" boxes empty gives everyone on the network access to the disk drive or folder.
- P. Click "OK" to continue. You will be prompted to enter the password(s) you provided for verification. Retype the password(s) just as you entered them the first time.
- Q. You may now access this disk drive or folder from another computer on your network. Do so by double-clicking the "My Network Places" icon on your desktop or inside Windows Explorer.
- R. Navigate to the computer with the shared disk drive or folder (recognized by the "Computer Name" you provided), double-click. You should now see the disk drive or folder, double-click. If you specified a password when sharing this disk drive or folder, you will be prompted for the password.
- S. You can access a disk drive or folder shared over the network from most Windows applications. To make this process easier, Windows allows you to map these disk drives and folders to a drive letter on another computer. For example, on a computer where you are accessing a shared folder from another computer, inside Windows Explorer right-click and select "Map Network Drive." You will then be able to assign an available drive letter. Checking "Reconnect at logon" allows Windows to map this network drive each time you start your computer.

Sharing Printers

"Sharing" a printer connected to one computer with other computers on you network can be very convenient – allowing you to print from any computer on the network. The steps below will enable you to print with other computers on your network.

- A. On your Desktop, right-click the icon "Network Places" and select "Properties" from the context menu.
- B. Click the "File and Print Sharing." button.
- C. Click to place a check mark next to "I want to be able to allow others to print to my printer(s)."
- D. Click "OK" on the "File and Print Sharing" dialog box.
- E. Click "OK" on the "Network" dialog box.
- F. You may now share any installed printers connected to this computer with other computers on your network. From the "Start" select "Setting", then select "Printers."



Right click on the printer you want to share with others on the network and select "Sharing."

G. Click "Share As:" and provide a "Share Name:" to identify the printer to other computers on the network. "Comment:" and "Password:" are optional. Then click "OK." For a computer to access a Network Printer, the device driver or software for that printer must be installed and pointed to the proper location of the printer. This is done much the same way you installed the printer on the computer it is connected to.

H. Go to a computer that does not have the printer connected to it. From the "Start" button on the Task Bar select "Settings" and then "Printers."

I. Double click the "Add Printer" icon.

J. The "Add Printer Wizard" will appear. Click "Next."

K. Choose "Network printer" and click "Next."

L. Now you will identify the location of the Network Printer. If you know the name of the computer and the share name of the printer, you can type it into the "Network path or queue name:" box. However, it is easier to click the "Browse" button and navigate to the location of the printer. Click "OK" when you have selected the desired printer. Finish the installation by continuing the "Add Printer Wizard" normally.

M. You may now use the Network Printer as if it was connected directly. Note: the computer that the printer is connected to must be on to use the printer. If you find this inconvenient, devices known as Network Print Servers are available from Shock Products. A Network Print Server would allow you to directly connect your printer to your network without worrying about which computer is 'on'.

How to Install TCP/IP

Go to START > Settings > Control Panel

Double click on "Network".

Select the "Wireless Adapter"

Click on "Add"

Select "Protocol"

Click "Add"

Select "Microsoft"

Scroll down and Select "TCP/IP"

Click "OK"

Now the "TCP/IP for Wireless Adapter" will be available.

The TCP/IP Installation is now complete.

Configuring a Dynamic IP Address

When the drivers are installed, the default setting is set to obtain IP dynamically through a DHCP server.

If you need to check or change the settings, then do the following:

Go to START > Settings > Control Panel

Double Click on "Network"

Highlight TCP/IP for the Wireless Adapter

Click on "Properties"

NOTE: *If TCP/IP is not present see Section 1: "How to Install TCP/IP".*

When the TCP/IP window opens, choose "IP Address" tab.

Select "Obtain an IP Address Automatically."

Click "OK."

When the network properties window comes back up, click "OK."

Windows will ask you to reboot and click "Yes."



Configuring a Static IP Address

Go to START > Settings > Control Panel

Double Click on "Network"

Highlight TCP/IP for the Wireless Adapter.

Scroll down if you cannot see it.

Click on "Properties."

NOTE: *If TCP/IP is not present see Section 1: "How to Install TCP/IP."*

When the "TCP/IP Properties" window opens, choose "IP Address" tab.

Select "Specify an IP address."

Enter an IP address into the empty field.

Suggested IP Range 192.168.0.2 to 192.168.0.254

NOTE: *IP Addresses must be signed sequentially to each computer.*

Suggested Subnet Mask of 255.255.255.0

Click "OK."

When the "Network Properties" window comes back up click "OK."

Insert Windows CD if prompted.

Windows will ask you to reboot and click "Yes."

Checking TCP/IP Address of the Wireless Adapter

Click on the Start button and click "Run."

Figure 11 - Start > Run

Checking TCP/IP Address of the Wireless Adapter

Type "winipcfg" in the "Open" box.

Click "OK". The IP Configuration screen will be displayed. The IP address will be displayed in the IP Address box.

Click on "More Info" to display additional IP information.

Checking TCP/IP Address of the Wireless Adapter

Checking the Connection by Pinging

Click on the Start button and click "Run."

Type "command" in the "Open" box.

Click "OK" to get to a DOS prompt.

Checking the Connection by Pinging

Type "ping 192.168.0.1," which is the IP address of the Gateway in this case, and hit the "Enter" key.

A successful ping will show four replies.