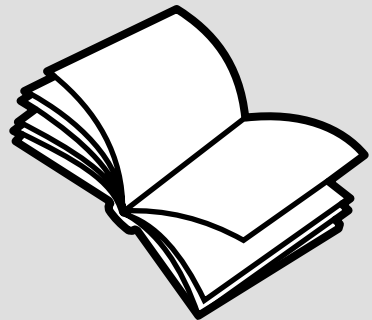


**hp officejet  
d series**



**i n v e n t**



**networking tips**

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- Governmental paper or documents:
  - Passports
  - Immigration papers
  - Selective service papers
  - Identification badges, cards, or insignias
- Governmental stamps:
  - Postage stamps
  - Food stamps
- Checks or drafts drawn on Governmental agencies
- Paper currency, traveler's checks, or money orders
- Certificates of deposit
- Copyrighted works

## safety information



**Warning!** To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

Always follow basic safety precautions when using this product to reduce risk of injury from fire or electric shock.

## WARNING: potential shock hazard

- 1 Read and understand all instructions in the setup poster.
- 2 Use only a grounded electrical outlet when connecting the unit to a power source. If you do not know whether the outlet is grounded, check with a qualified electrician.
- 3 Observe all warnings and instructions marked on the product.
- 4 Unplug this product from wall outlets before cleaning.
- 5 Do not install or use this product near water or when you are wet.
- 6 Install the product securely on a stable surface.
- 7 Install the product in a protected location where no one can step on or trip over the line cord, and where the line cord will not be damaged.
- 8 If the product does not operate normally, see the online Troubleshooting help.
- 9 No operator-serviceable parts inside. Refer servicing to qualified service personnel.
- 10 Use in a well-ventilated area.

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# setup

# 1

The HP JetDirect 200m print server connector (HP JetDirect) comes as standard equipment with the HP OfficeJet D Series d155xi (HP OfficeJet) model and can be purchased as an accessory for all other models. See the *Support and Specifications* booklet for accessory information. The HP JetDirect allows all functions to be shared across the network: printing, scanning, photo upload, faxing and copying.

There are two parts to setting up your HP OfficeJet for use on a network. First, connect your HP OfficeJet to your computer with the print server connector. Second, install the HP OfficeJet software.



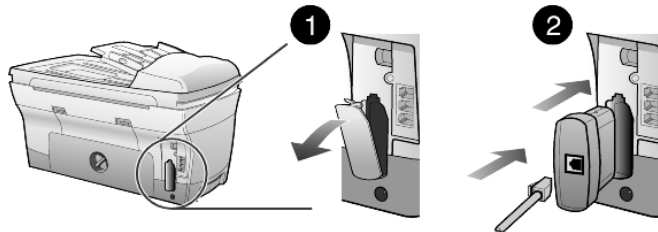
If you previously set up your HP OfficeJet for local use, you will need to uninstall the software before proceeding.

## set up your officejet for network use

Your HP OfficeJet can be connected to your network with your network cable and a HP JetDirect 200m print server connector.

### connect your hp jetdirect to your computer

- 1 Remove the cover from the port on the back of your HP OfficeJet.
- 2 Attach your network cable to your HP JetDirect and plug the HP JetDirect into the port on the back of your HP OfficeJet.



connect the hp jetdirect 200m print server connector to your computer

When the connector status light is lit in a solid green state it is on and ready.



It may take a few moments for your HP OfficeJet network settings to become active and available for use.

3 Attach the HP JetDirect cable to your network hub, tap, or outlet.



Your HP JetDirect and network cable must be attached to your HP OfficeJet before proceeding to front panel setup. The Network Setup menu option will be available only after the HP JetDirect is attached.



Should you need to disconnect your HP JetDirect from the HP OfficeJet, depress the buttons found on the top and bottom of the connector and pull the connector straight out. You may need to disconnect the power cord to access the lower button on the connector.

**install your  
hp officejet  
software on a  
windows  
computer**



These instructions are for Windows computers only.

If you have an HP OfficeJet D 155xi refer to your Setup poster for instructions on installing the HP OfficeJet software. For all other models for network installation it is recommended you make the following selections during the software installation:

- **Search the network for devices and choose from a list of discovered devices**, then press **Next**.
- Select the HP OfficeJet from the device list, then press **Next**.
- **Do network settings for me**, then press **Next**.
- Follow the instructions on the remaining install screens.

## select a networked computer from the front panel

The HP OfficeJet allows you to send information to any computer on the network that has the HP OfficeJet software installed when using the **Scan To** and **Photo Card, Save to PC** features. Use the following steps before turning on the networked computers to ensure that they appear on the HP OfficeJet front panel:



These steps must be followed **before** turning on the networked computers.

- 1 Confirm that the HP OfficeJet is turned on.
- 2 Confirm that your HP OfficeJet is attached to the network.
- 3 Confirm that your HP OfficeJet and your computer can communicate over the network.



If your HP OfficeJet is not turned on prior to powering on your computer, you may not be able to select your computer from the front panel.



It is recommended that steps 1, 2 & 3 be in place when you shut down your computer.

## set up for the hp jetdirect on windows and macintosh computers



These instructions Windows and Macintosh computers. For Windows computers it is recommended that you let the software installation automatically make these settings for you. For Macintosh computers, use the steps that follow to set up a static IP address.

**Caution!** These instructions are for advanced users, such as Network Administrators only.

### front panel ip address assignment using non-dhcp

For best performance, use non-DHCP as the setup method. Using DHCP can reduce the performance of your HP OfficeJet and make it difficult for the computers on your network to find the HP OfficeJet. This is because the IP Address of the HP OfficeJet may change from day to day with the DHCP configuration.

- 1 Press **Menu**, and then press **8**.  
This selects the Network Setup menu.
- 2 Wait until the JETDIRECT MENU appears and press **Enter**.
- 3 CFG NETWORK: 1=YES, 2=NO appears, press **1**.

If you press 2 for NO, a message indicating Settings Saved will appear and the Network Setup menu will be exited.  
IPX ON/OFF appears.

- 4 Press  to select **OFF** and then press **Enter**.



IPX is not supported and should not be selected.

TCP/IP ON/OFF appears.

- 5 Press  to select **ON** and then press **Enter**.



TCP/IP is the only supported protocol for Windows computers and must be selected.

ATALK ON/OFF appears. This setting only applies to Macintosh computers.

- 6 Press  to select **ON** and then press **Enter**.

**ON** is the recommended setting for Macintosh computers.

CONFIG TCP/IP: 1=YES, 2= NO appears.

- 7 Do one of the following:

– press **1** if you wish to configure TCP/IP.

BOOTP ON/OFF appears. Go to step 8.

– press **2** for if you do not wish to configure TCP/IP. Go to step 15.

- 8 Press  to select **OFF** for BOOTP, then press **Enter**.

**Caution!** It is recommended that you not use BOOTP.

DHCP ON/OFF appears.

- 9 Press  to select **OFF** for DHCP then press **Enter**

**Caution!** It is recommended that you not use DHCP. The dynamic assignment of IP addresses may result in other computers on the network being unable to find the HP OfficeJet. A static IP address assignment is preferred.



IP:0.0.0.0 or the current value appears. If this is not a valid IP address for your network, go to step 10.

- 10 Enter your IP address using the numeric keypad and then press **Enter**.

SUBNET MASK: 255.0.0.0 or the current value appears. This may not be a valid Subnet Mask for your network. If this is not a valid Subnet Mask, go to step 11.

- 11 Enter your Subnet Mask value using the numeric keypad and then press **Enter**.

DEFAULT GATEWAY appears.

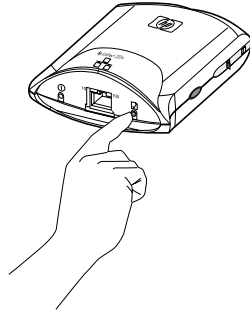
- 12 Enter your Gateway value using the numeric keypad and then press **Enter**.  
SYSLOG appears.
- 13 Enter your SysLog Server value using the numeric keypad and then press **Enter**.  
TIMEOUT 270 appears
- 14 Press  to delete the default the idle time-out period value. Use the numeric keypad to enter a new value. Press **Enter**.  
CFG LINK 1=YES, 2=NO appears
- 15 Press **1** to configure the 10/100 Link speed.  
If you select **2** for NO, the **Settings Saved** message will appear and the Network Setup Menu will be exited.  
If you select **1** for YES, the following options will appear:  
LINK:  
    AUTO  
    10T HALF  
    10T FULL  
    100TX HALF  
    100TX FULL
- 16 Press  to select the setting which is appropriate for your network and then press **Enter**.  
**Settings Saved** will appear and the Network Setup menu will be exited.

## print a configuration page

Your HP JetDirect prints a configuration page when you press the report button on the HP JetDirect. The configuration page provides useful information regarding the print server configuration, network statistics, and other important network setting information.

### to print a configuration page.

- 1 Press the report button on the HP JetDirect.



print report button on the hp jetdirect

# printer sharing

# 2

## set up for simple sharing

Your HP OfficeJet D Series (HP OfficeJet) can be shared by two different computers by having both computers connected directly to the HP OfficeJet. Both computers must have the HP OfficeJet software installed. The supported communication configurations are listed below. For more information on parallel and USB communication refer to the *Additional Setup* section of the *HP OfficeJet D Series Onscreen User's Guide*.

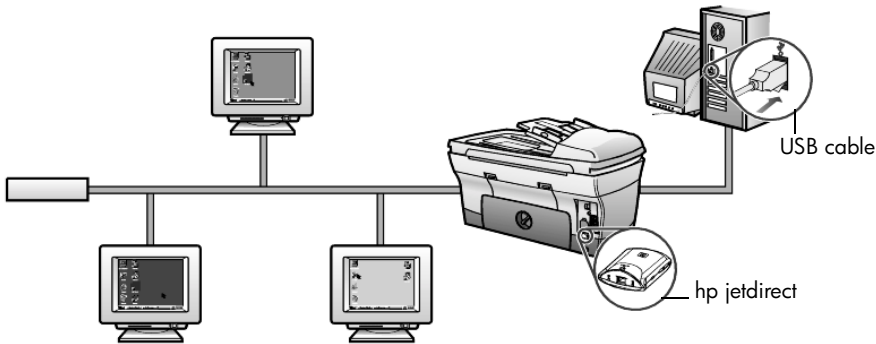
Communication Configuration
hp jetdirect 200m print server connector(HP JetDirect) and USB cable
parallel cable adapter and USB (Windows only)

**Caution!** A single computer cannot be connected to a specific HP OfficeJet with more than one communication type simultaneously. For example you cannot be connected to the HP OfficeJet with a USB and a Network cable from the same computer.



There can be up to 10 client computers on the network portion of the HP JetDirect.

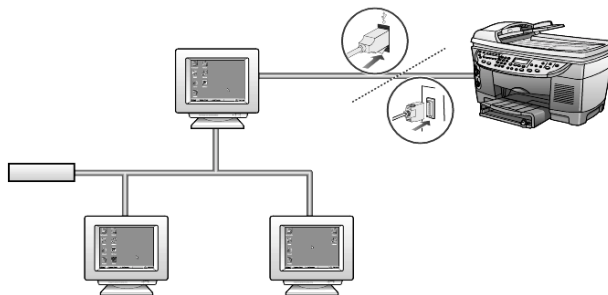
Simple Sharing is supported by connecting to the HP OfficeJet in one of the following configurations: HP OfficeJet to two Windows computers or HP OfficeJet to two Macintosh computers. You cannot mix platforms, i.e. having the HP OfficeJet connected to a Windows computer and a Macintosh.



simple sharing with the hp jetdirect and usb

## set up for printer sharing on a network

If your computer is on a network, and another computer on the network has an HP OfficeJet D Series (HP OfficeJet) connected to it via USB or Parallel, you can use that unit as your printer using Windows sharing. The only function you can perform from clients is printing, all other functions must be done at the host.



printer sharing on a network

## understand printer sharing on networks

A *point-and-print network* refers to an environment where two or more computers (Windows 98/2000 or ME) equally share a single resource such as your HP OfficeJet, and the client computer automatically downloads the required software from the host computer. If your network uses a Windows 98 computer as the host and you have Windows 2000 or Windows ME clients, you must use a *peer-to-peer* network configuration instead. A peer-to-peer network is the same as a point-and-print network, except that the software must be manually installed on each Windows 2000 client.

Before you can set up printer sharing, a local area network (LAN) must already exist, and each computer must meet the minimum system requirements for connection to a LAN:

- Have a properly configured network card
- Be a client or host for Microsoft networks
- Have basic network services and protocols
- Have the proper network adapter
- Have LAN access

Setup the host first, then follow the steps in **set up a point-and-print client** on page 10 or **set up a peer-to-peer client** on page 10.

## set up the host

If you are using Windows 2000, you must have administrative rights to your computer to set up a Windows 2000 host for network printing. For more information, see your Windows 2000 documentation or your system administrator.

- 1 Install the HP OfficeJet software on the host, as described in the setup poster.
- 2 If you are using Windows 98 as your host, perform the following steps before continuing.
- 3 On the Windows desktop, right-click **Network Neighborhood**, and then choose **Properties**.
- 4 On the **Configuration** tab, click **File and Print Sharing**.
- 5 Select the check boxes for the sharing options you want.
- 6 Click **OK** to store your changes, and then click **OK** again to exit the **File and Print Sharing** dialog box.
- 7 Restart the computer.
- 8 On the Windows taskbar, click **Start**, point to **Settings**, and choose **Printers**.
- 9 Right-click the **HP OfficeJet** icon, and choose **Sharing**.
- 10 The **Properties** dialog box appears, with the **Sharing** tab visible.
- 11 Click the **Sharing** option.
- 12 In the **Share Name** field, type a name for the HP OfficeJet if you do not want to use the default name.
- 13 Note the share name. You will need it to set up client computers.
- 14 If you are setting up a Windows 2000 or ME host that supports Windows 98 clients, complete the following steps before continuing.
- 15 Click **Additional** drivers, and then click **Windows 98**.
- 16 After the message instructing you to insert the floppy disk appears, click **OK**, and insert the HP OfficeJet CD into your computer's CD-ROM drive.

- 17 In the **Printer Drivers for Windows 98** dialog box, click **Browse**, open the **drivers** folder, open the **Win98** folder, open the appropriate language folder, and then double-click the **hpop9804.inf** file. This allows the Windows 2000 host to load the correct driver to a Windows 98 client.
- 18 Click **OK** to close the dialog box and store your changes.

### set up a point-and-print client

Follow these steps to install the printing software on each client for following configurations:

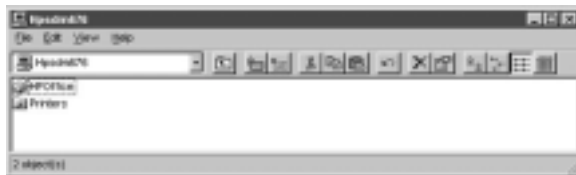
- Windows 98 host with only Windows 98 clients.
- Windows 98 host with only Windows ME clients.
- Windows 2000 host with Windows 98 and/or 2000 clients.
- Windows 2000 host with Windows ME, 98 and/or 2000 clients.



To setup a Windows 2000 client Windows 98 host you must set up a peer to peer client configuration. For instructions on this set up see, **set up a peer-to-peer client** on page 10

- 1 Set up the host using the steps in **set up the host** on page 9.
- 2 On the Windows desktop, double-click **Network Neighborhood**.
- 3 Find the name of the host that the HP OfficeJet is directly connected to, and double-click its icon.

The host window appears showing shared devices, including the HP OfficeJet's share name.

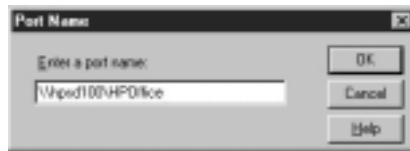


- 4 Double click the HP OfficeJet's share name.
- 5 After the setup message **Before you can use the printer...** appears, click **Yes**, and then wait several moments while the client computer establishes a connection to the unit.  
After connecting to the shared unit, the HP OfficeJet window appears.

### set up a peer-to-peer client

If you are using a configuration that includes a Windows 98 host with a Windows 2000, follow these steps to install the printing software on each Windows 2000 client.

- 1 Set up the host by following the steps outlined earlier in **set up the host** on page 9.
- 2 On the client, in the first **Add Printer Wizard** dialog box, click **Next**, and then choose **Local Printer**.
- 3 In the next dialog box, click **Create a new port** (Windows 2000).
- 4 In the **Printer Ports** dialog box, choose **Local Port**, and click **New Port**.
- 5 In the **Port Name** dialog box, type in the name of the host to which your unit is connected and the share name assigned to the printer.



- 6 Click **OK** to store your changes, and then click **Close** on the **Printer Ports** dialog box.
- 7 Click **Have Disk** and insert the HP OfficeJet CD into your computer's CD drive.
- 8 If the software installation menu appears, click **Quit**.
- 9 Change the name of the drive letter to point to your CD drive, and then click **Browse**.
- 10 In the **Locate File** dialog box, open the **drivers** folder, and then open the **Win2000** folder, and double-click the **hpop2k04.inf** file.
- 11 In the **Install From Disk** dialog box, click **OK**.
- 12 If another message appears, point to the same location on the CD-ROM, and then click **OK**.
- 13 Select **hp officejet d series**, click **Next**, and then click **Next** again.
- 14 Select **Not shared** and then click **Next**.
- 15 Select **Yes** to print a test page, and then click **Finish**.
- 16 If your test page printed correctly, click **Yes**.



# troubleshooting

# 3

This section contains troubleshooting tips for some of the most common issues associated with networking and your HP OfficeJet D Series (HP OfficeJet) unit.



It is strongly recommended that a static IP address be used when installing your HP OfficeJet for network use. DHCP allocation of IP addresses for the HP OfficeJet can cause computers on the network to be unable to locate the HP Officejet and can cause inconsistent performance of the HP OfficeJet program. For more information on DHCP see **dhcp overview** on page 16.

For more information on troubleshooting, see **other sources for help** on page 19.

## troubleshooting scenarios

Symptom	Possible Cause/Resolutions
Nothing shows in the status dialog box	<ul style="list-style-type: none"> <li>• Network may be down.</li> <li>• The OfficeJet is not turned on. Ensure that the power is on.</li> <li>• The OfficeJet was configured with DHCP addressing and a new IP address was assigned. See <b>assign a static ip address for windows computers</b> on page 17 for information on resolving DHCP issues.</li> <li>• Original IP address lease may have expired and a new IP address has been assigned to the HP OfficeJet. See your network administrator for a new IP address assignment.</li> </ul>
Message appears on the Director screen, stating that your computer cannot find the HP OfficeJet	<ul style="list-style-type: none"> <li>• The network cable may not be properly connected to the HP JetDirect. Ensure that the network cable is securely connected to the HP JetDirect.</li> <li>• The HP JetDirect may not be properly connected to the HP OfficeJet. Ensure that the HP JetDirect is securely attached to the port on your HP OfficeJet.</li> <li>• The network cable may have become unplugged from the wall or hub. Ensure that your network cable is securely connected into your network jack.</li> <li>• The OfficeJet is not powered on. Ensure that the OfficeJet is turned on and that the power cord is plugged in securely to the back of the unit and to your power source.</li> </ul>
When you press the Scan To button on the HP OfficeJet, the name of a computer you wish to scan to does not appear	<p>Your HP OfficeJet may have been powered off when your computer was turned on. Your HP OfficeJet should be powered on, connected to the network and able to communicate with the computer when the computer is powered on.</p> <ul style="list-style-type: none"> <li>• Restart the HP OfficeJet software on your computer by right clicking the HP OfficeJet icon in the system tray and selecting Close. Double click the HP OfficeJet icon on the desktop to restart the software. When the HP OfficeJet icon appears in the system tray, retry your task.</li> <li>• If restarting is unsuccessful, then shut down your computer and turn it off. Turn off your HP OfficeJet. Turn on your HP OfficeJet and ensure that it is fully initialized and communicating to the network before restarting your computer. When the HP OfficeJet icon appears in the system tray of your computer, retry your task.</li> </ul>

Symptom	Possible Cause/Resolutions
<p>When you press the Scan To button on the HP OfficeJet, the name of a computer you wish to scan to does not appear and you see one of the following on the front panel:</p> <ul style="list-style-type: none"> <li>• HP software on computer needed to setup Scan To. Press Enter to continue.</li> <li>• Applications for the computer connected via USB to your HP OfficeJet.</li> </ul>	<p>Your HP OfficeJet may have been powered off when your computer was turned on. Your HP OfficeJet should be powered on, connected to the network and able to communicate with the computer when the computer is powered on.</p> <ul style="list-style-type: none"> <li>• Restart the HP OfficeJet software on your computer by right clicking the HP OfficeJet icon in the system tray and selecting Close. Double click the HP OfficeJet icon on the desktop to restart the software. When the HP OfficeJet icon appears in the system tray, retry your task.</li> <li>• If restarting is unsuccessful, then shut down your computer and turn it off. Turn off your HP OfficeJet. Turn on your HP OfficeJet and ensure that it is fully initialized and communicating to the network before restarting your computer. When the HP OfficeJet icon appears in the system tray of your computer, retry your task.</li> </ul>

Symptom	Possible Cause/Resolutions
<p>When initiating a Scan To or Photo Upload, the front panel displays a message indicating "No connection. Connect the computer, turn on the computer or install HP Software. Press Enter to continue."</p>	<ul style="list-style-type: none"> <li>• The Network may be down.</li> <li>• The OfficeJet was configured with DHCP addressing and a new IP address was assigned. See <b>assign a static ip address for windows computers</b> on page 17 for information on resolving DHCP issues.</li> <li>• Original IP address lease may have expired and a new IP address has been assigned to the HP OfficeJet. See your network administrator for a new IP address assignment.</li> <li>• The network cable may not be properly connected to the HP JetDirect. Ensure that the network cable is securely connected to the HP JetDirect.</li> <li>• The network cable may have become unplugged from the wall or hub. Ensure that your network cable is securely connected into your network jack.</li> </ul> <p>Your HP OfficeJet may have been powered off when your computer was turned on. Your HP OfficeJet should be powered on, connected to the network and able to communicate with the computer when the computer is powered on.</p> <ul style="list-style-type: none"> <li>• Restart the HP OfficeJet software on your computer by right clicking the HP OfficeJet icon in the system tray and selecting Close. Double click the HP OfficeJet icon on the desktop to restart the software. When the HP OfficeJet icon appears in the system tray, retry your task.</li> <li>• If restarting is unsuccessful, then shut down your computer and turn it off. Turn off your HP OfficeJet. Turn on your HP OfficeJet and ensure that it is fully initialized and communicating to the network before restarting your computer. When the HP OfficeJet icon appears in the system tray of your computer, retry your task.</li> </ul>

## dhcp overview

### dynamic allocation of ip addresses

In dynamic address allocation, IP addresses are monitored with a computer called a DHCP (dynamic host configuration protocol) server. This server keeps the IP addresses in a pool and, when a user requests a connection to the network, the DHCP server provides an IP address from the pool. This IP address is a temporary assignment. As long as only a portion of the network's users are connected to the network at the same time, the DHCP server can make its allocation of IP addresses serve a greater number of users than it could otherwise. (This effect is limited by the tendency for users

to stay connected to the network all the time. Nonetheless, dynamic address allocation allows the network to get greater use out of its IP address allocation.)

### effects of dynamic ip addresses and the hp officejet

Dynamic IP addresses change. If you turn off your computers and HP OfficeJet at the end of the day and turn them back again at the start of the next day, the DHCP server may assign them different IP addresses. However, the printer configurations in the computers are static – the computers expect the HP OfficeJet to be at the same address that worked previously. If the HP OfficeJet has a new IP address of 10.1.1.2 and the computer still thinks the HP OfficeJet is at 10.1.1.3, the computer cannot find the HP OfficeJet when it sends out a print job.

## assign a static ip address for windows computers

### automatic assignment of a static IP

The installation software for the HP JetDirect can automatically assign a static IP address as long as the HP JetDirect does not obtain a dynamic (DHCP) address.

#### to assign a static ip address.

- 1 Boot up the computers in the normal way, so that they acquire IP addresses as usual from the DHCP server.
- 2 Turn off the DHCP server so that the HP JetDirect cannot get an IP address via DHCP by disconnecting your cable/DSL modem or DHCP from the network
- 3 Reset the HP JetDirect to set its factory default configuration (with no DHCP address).
  - Unplug the power cord to HP OfficeJet.
  - Plug the power cord back in while holding in the HP JetDirect's report button.

The HP JetDirect will try to find a DHCP server; after about three minutes of no DHCP response, the HP JetDirect will default to a static IP address of 192.0.0.192.

- 4 Print a Configuration Page to confirm the IP address is set to the default of 192.0.0.192.
  - Press the report button on the HP JetDirect. For more information see **print a configuration page** on page 6



Be sure to wait until IP address is 192.0.0.192 before proceeding. If it remains set to 0.0.0.0, check the network cable connection to the JetDirect and to the network is secure. If some other address appears repeat steps 3 and 4 until the default address appears.

- 5 Start the software installation using the OfficeJet D CD.

During the installation be sure to select the following options:

- **Search the network for devices and choose from a list of discovered devices**, then press **Next**.
- Select the HP OfficeJet from the device list, then press **Next**
- **Do network settings for me**, then press **Next**.

Follow the instructions on the remaining install screens.

The software will pick an IP address in the private 169.254.x.x range (not available on the open Internet) and permanently assign it to the HP JetDirect. It will also set up a static route to that address in the computer's printer configuration.

- 6 Turn the DHCP server back on by turning on the DHCP server by connecting your cable/DSL modem or DHCP to the network  
Because the HP JetDirect now has a permanent static IP address, it will no longer try to use DHCP server to get an address.
- 7 Install the HP OfficeJet software on the other computers on the network who will be using the HP OfficeJet.

The installation software will discover the HP JetDirect at the 169.254.x.x address, and will add the static IP address in each computer's printer configuration.

## other sources for help

help	description
Troubleshooting help	To access troubleshooting information, go to the <b>Director</b> , click <b>Help</b> , then choose <b>Troubleshooting</b> . Troubleshooting is also available via the <b>Help</b> button that appears on some error messages.
Onscreen User's Guide	To access the Onscreen Users's Guide go to the <b>Director</b> , click <b>Help</b> , then choose <b>User's Guide</b> .
Internet help and technical support	If you have Internet access, you can get help from the HP website at: <a href="http://www.officejetsupport.com">www.officejetsupport.com</a> The website also provides answers to frequently-asked questions.
HP JetDirect User's Guide	See your HP JetDirect CD.
HP JetDirect Troubleshooting	See your HP JetDirect CD.
Networking Basics	See your HP JetDirect CD.

## glossary of terms

term	definition
ATALK	ATALK is an acronym for AppleTalk which is a Local Area Network architecture that is used by all Macintosh computers.
BOOTP	Is a bootstrap protocol used to automatically download IP address and other TCP/IP parameters from a network server.
DHCP Server	DHCP is an acronym for dynamic host configuration protocol. This is a server that dynamically manages a pool of IP addresses for use on a network or the internet. When a user logs into the network they are loaned an IP address for the time they are attached to the network. When a user logs off, the IP address is returned to the pool for use by another device.
Gateway	A router or computer that connects two dissimilar networks. When networks are divided into subnets, gateways are often used to isolate one subnet from another to control network traffic.

IP Address	Each computer that connects to a network or the internet, must have a unique address. A connection to the internet provided by an Internet Service Provider (ISP) uses a standard protocol called Internet Protocol (IP), this protocol is also used on internal networks. IP address numbers are in the form x.x.x.x - for example, 169.254.100.2
LAN	A Local Area Network (LAN) is a group of computers that are connected via network cable, telephone lines and radio waves in order to share resources such as printers and data.
Peer-to-Peer Printing	Each computer is set up to print directly to a printer. A dedicated Server computer is not used to control print jobs to the printer.
Protocol	A protocol is a predefined set of rules and conventions for handling data.
Server	A computer on a network that manages network resources. A network may have a number of different server types. For example a print server manages one or more printers, a file server is a storage device dedicated to storing and managing files, network server manages network traffic a
Subnet mask	A subnet is a mechanism used to divide a TCP/IP network into subnets. Subnetting allows more efficient use of a large network. The subnet mask identifies a segment within a network.
TCP/IP	TCP/IP is an acronym for Transmission Control Protocol/Internet Protocol. This is a communication protocol that defines the way data is passed to network devices.

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