

HP DesignJet ColorPro Series Wide-Format Printers

Network Guide

HP DesignJet ColorPro CAD (C7777A)

HP DesignJet ColorPro GA (C7778A)

HP DesignJet ColorPro Series: Network Guide

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Network Printing Overview

A network is a system of computers and other equipment set up for sharing files, data and other resources such as printers and scanners. A LAN, or a local area network, in its smallest form may consist of two computers that can communicate with each other. A larger LAN may connect members of a workgroup, such as an accounting department where users have similar requirements for sharing data and resources.

The HP DesignJet ColorPro Series printer may be shared on a network. It can be connected directly to a network using an HP JetDirect print server, or it can be attached to a PC that is connected on a network.

Supported Network Printer Connections

The HP DesignJet ColorPro Series printer supports the following network printer connections:

- HP JetDirect Print Server
- PC parallel port.

Printing through an HP JetDirect Print Server

In this configuration, the printer connects to the network via an HP JetDirect print server. This configuration provides better performance and flexibility in preparing a location for the printer. The HP DesignJet ColorPro GA printer comes with an internal HP JetDirect Print Server (part number J4100A). It is therefore recommended that the printer be shared on a network through the print server.

Using the HP JetDirect print server, there are two basic network configurations: Client-Server printing and Peer-to-Peer printing.



Client-Server printing is typically used in medium to large networks where dedicated computer servers are used to manage printing needs of many users. Client-server networks use network operating systems (NOS) such as Novell NetWare and Microsoft Windows NT Server 4.0.



Peer-to-Peer printing is more suitable for smaller networks. On peer-to-peer networks, users configure their Windows 95, Windows 98 or Windows NT 4.0 systems to print directly to the printer.

Networks Supported by the HP JetDirect Print Server Installed in the Printer

| Supported Network Protocols | Supported Networks* |
|---|---|
| AppleTalk ^{\dagger} | EtherTalk |
| DLC/LLC | IBM LAN Server® |
| | Microsoft LAN Manager® |
| | Microsoft Windows for Workgroups® |
| | Microsoft Windows NT® |
| IPX/SPX | Novell Netware® |
| TCP/IP | UNIX®, including: HP-UX, Sun Microsystems, SunOS/ |
| | Solaris (Sun SPARCsystems® only), SCO UNIX ^{\ddagger} and |
| | IBM AIX \ddagger |

- * For supported network versions, consult your HP dealer. For support of other networks, consult your system vendor or HP dealer.
- † For the HP DesignJet ColorPro GA printer only.
- ‡ Contact your network system vendor for software, documentation and support.

Information on supported versions is also available in the *HP JetDirect Print* Server Software Installation Guide.

Supported Network Configurations for Client-Server Printing

| Server | Client Configurations | | |
|---------------------------------------|-----------------------|------------------|--------------------------------|
| | Windows NT 4.0 | Windows 95/98 | Windows for Workgroups 3.11 |
| Windows NT 4.0 | Yes | Yes | No |
| Windows 95/98 | Not recommended | Yes | No |
| Novell NetWare 3.12/4.11 (Bindery) | Yes | Yes | Yes |
| Novell NetWare 3.12/4.11 (NDS) | Yes | Yes | Yes |

| Server | | |
|---|---|---|
| Windows 95/98 and NT 4.0 | Novell Netware 3.12/ 4.11 (Bindery) | Novell Netware 3.12/ 4.11 (NDS) |
| See "Windows 95, 98 or NT 4.0 (TCP/IP or IPX/ SPX)" on page 13. | See "Queue Server Mode on NetWare 4.11 Bindery Networks" on page 13. | See "Queue Server Mode on NetWare 3.12 or 4.11 NDS Networks" on page 14. |

Note: The HP DesignJet ColorPro GA printer is not supported on Windows 3.1x.

Supported Network Configurations for Peer-to-Peer Printing

- Windows 95
- Windows 98
- Windows NT 4.0

See "Windows 95, 98 or NT 4.0 (Peer-to-Peer)" on page 15.

Note: To take full advantage of network printer management features, please use the latest printer software. To obtain the latest printer firmware for the HP DesignJet ColorPro Series printer, please visit our web site at www.hp.com/go/ designjet.

Printing through a PC

In this configuration, the printer is connected directly to the parallel port of a selected computer (the server) on the network and is shared out to the other computers (the clients). The server could be a Novell NetWare 3.12 or 4.11 server or a computer running Windows 95, 98 or NT 4.0. Sharing the printer in this configuration is a low cost, easy way to share a printer because it requires no additional hardware or software.



The HP DesignJet ColorPro Series printer can be shared over a network with this configuration. However, it is recommended only for a small workgroup where there is a small number of users or limited usage is low as the shared computer will be slowed down when many users print to its shared printer.

| | Client Configurations | | | | |
|--------|--------------------------------|-------------------|------------------|--------------------------------|--|
| ions | | Windows NT 4.0 | Windows 95/98 | Windows for Workgroups 3.11 | |
| igurat | Novell NetWare 3.12/ 4.11 | Yes | Yes | Yes | |
| Conf | Windows NT 4.0 | Yes | Yes | Yes | |
| er (| Windows 95/98 | No | Yes | Yes | |
| Serv | Windows for Workgroups 3.11 | No | No | Yes | |

Supported Network Configurations for Printing through a PC

| Server | | |
|--------------------------------|-----------------------------|--|
| Windows for Workgroups 3.11 | Windows 95/98 and NT 4.0 | NetWare 3.12/4.11 (NDS and Bindery Mode) |
| See page 16. | See page 16. | Please refer to Novell documentation |

| Client | |
|-----------------------------|--------------------------|
| Windows for Workgroups 3.11 | Windows 95, 98 or NT 4.0 |
| See page 17. | See page 17. |

Installing the Print Server

The HP DesignJet ColorPro GA Printer comes with an internal JetDirect Print Server preinstalled. However, if you have purchased the HP DesignJet ColorPro CAD Printer, you may purchase the internal JetDirect Print Server and install it yourself.

For the list of supported JetDirect Print Servers, please refer to our web site at www.hp.com/go/designjet.

Installing the HP JetDirect Print Server Card

Step 1 – Verify the Printer Works

- 1. Turn on the printer.
- 2. Press [MENU] repeatedly until SELF TEST MENU appears.
- 3. Press [ITEM] repeatedly until PRINT DIAGNOSTIC PAGE appears.
- 4. Press [SELECT] to print the Diagnostic Page.

Step 2 – Install the HP JetDirect Print Server Card in the Printer

Note: The HP JetDirect card contains electronic components that can be damaged by static electricity through electrostatic discharge (ESD). To prevent ESD discharge, maintain frequent contact with any bare sheet metal surface on the printer. A grounding wrist strap (or similar device) is useful for this purpose. Handle the card carefully at all times. Avoid touching electronic components or circuit paths.

- 1. Turn off the printer and unplug the power cord.
- 2. Unscrew and remove the plate on the left of the printer.
- 3. Insert the card. Align the card with the guide rails in the printer.
- 4. Press the card into the slot until the card is firmly seated.
- 5. Tighten each thumbscrew a little at a time, alternating between each side until both screws are secure.
- 6. Connect the network cable to the card.
- 7. Connect the power cord and turn on the printer.

Connectors on Your Printer





Configuring the JetDirect Print Server Using the Printer's Front Panel

From the printer's front panel, you can:

- Enable or disable network protocols (relevant to all networks). See page 10.
- Configure Apple EtherTalk Phase parameters (relevant only to AppleTalk networks using EtherTalk). See page 10.
- Configure TCP/IP parameters (relevant only to TCP/IP networks). See page 11.
- Configure Novell NetWare frame types (relevant only to Novell NetWare networks). See page 11.

All these configuration tasks are done by choosing options in the MIO SETUP menu (see below). MIO (modular input/output) is the network interface.

The MIO SETUP Menu

To help you use the menu options referred to in the following tasks, the menu tree accessible from MIO SETUP is shown in the table below. So, to access a particular option, simply refer to the table. Note that the options available depend on the MIO card used.

| [Item] | [Value] and effect when you press [Select] |
|-------------|---|
| CFG NETWORK | NO does not allow you to set following options YES enables you to set the IPX/SPX, DLC/LLC, TCP/IP and ETALK options |
| IPX/SPX | ON enables you to access CFG IPX/SPX options OFF does not allow you to configure Novell |
| DLC/LLC | ON enables DLC/LLC OFF disables DLC/LLC |
| TCP/IP | ON enables you to access CFG TCP/IP options OFF does not allow you to configure TCP/IP |
| ETALK | ON enables you to access CFG ETALK options OFF does not allow you to configure ETALK |
| CFG IPX/SPX | YES enables you to access FRAME options NO does not allow you to access FRAME options |
| FRAME | AUTO, EN_SNAP, EN_8022, EN_11, EN_8023 |
| CFG TCP/IP | YES enables you to access BOOTP options NO does not allow you to access BOOTP options |
| BOOTP | NO enables you to access byte and timeout options (see page 11)YES does not allow you to access byte and timeout |

Configuring the JetDirect Print Server Using the Printer's Front Panel

| [Item] | [Value] and effect when you press [Select] |
|--|--|
| IP BYTE 1/2/3/4 SM BYTE 1/2/3/4 LG BYTE 1/2/3/4 GW BYTE 1/2/3/4 | 0 through 255 |
| TIMEOUT | 0 through 3600 |
| CFG ETALK | YES enables you to access PHASE options NO does not allow you to access PHASE options |
| ETALK PHASE | 2 or 1 |

To Enable or Disable Network Protocols

By default, all supported protocols are enabled, the card switching automatically between them. For a reminder as to which protocols support which networks, see the table on page 5. To see how to access these options in the MIO SETUP menu, refer to the table above. Your current setting is retained even when you switch the printer off and on again.

| Protocol Option on Front Panel | Comments |
|-----------------------------------|---|
| ETALK | When set to ON, EtherTalk is enabled. |
| TCP/IP | When set to ON, TCP/IP is enabled. |
| DLC/LLC | When set to ON, DLC/LLC is enabled. |
| IPX/SPX | When set to ON, the Novell Netware IPS/SPX protocol is enabled. |

You can disable unused protocols by setting them to OFF from the front panel. Disabling unused protocols lets you:

- Reduce network traffic by eliminating broadcast messages from unused protocols
- Provide better control over who prints to the printer by eliminating users from other networks.

To Configure the Apple EtherTalk Phase Parameter

| Phase Parameter in Front Panel | Options |
|--------------------------------|-------------|
| ETALK PHASE | 2 (default) |
| | 1 |

In order to be able to configure this parameter:

- The printer's graphics language must be set to Auto (the default).
- The EtherTalk network protocol must be enabled (see above).

To see how to access this parameter in the MIO SETUP menu, refer to page 10.

To Configure Novell NetWare Frame Types

In order to be able to configure this parameter, the Novell network protocol must be enabled (see page 10). To see how to access these parameters in the MIO SETUP menu, refer to page 10.

| Parameter in the Front Panel | Options | Comments |
|------------------------------------|-------------------|---|
| FRAME | AUTO (default) | All listed NetWare frame types will be allowed. |
| | EN_SNAP | Limits frame types to IPX over SNAP with IEEE 802.3 frames. All others are counted and discarded. |
| | EN_8022 | Limits frame types to IPX over IEEE 802.2 with IEEE 802.3 frames. All others are counted and discarded. |
| | EN_11 | Limits frame types to IPX over Ethernet frames. All others are counted and discarded. |
| | EN_8023 | Limits frame types to IPX over IEEE 802.3 frames. All others are counted and discarded. |

To Configure TCP/IP Parameters

The following TCP/IP parameters

- IP address
- Subnet mask
- Syslog server IP address
- Default gateway
- TCP connection timeout

can either be retrieved over the network from a BOOTP download file or entered manually using the printer's front panel. By default, they are retrieved from the network (BOOTP = YES). To be able to enter them manually, set BOOTP to NO.

In order to be able to configure any of these parameters, the TCP/IP network protocol must be enabled (see page 10). To see how to access these parameters in the MIO SETUP menu, refer to page 10.

| Parameter in the Front Panel | Options | Comments |
|------------------------------------|-----------|--|
| | VES | |
| BOOTP | (default) | the network from a BOOTP download file that |
| | | you set up on your UNIX system. For |
| | | <i>Print Server Software Installation Guide.</i> |
| | NO | The printer is configured to accept TCP/IP parameters from the front panel, as listed below. |
| IP BYTE 1 | 0 | IP address (four bytes) |
| IP BYTE 2 | (default) | |
| IP BYTE 3 | through | |
| IP BYTE 4 | 255 | |
| SM BYTE 1 | 0 | Subnet mask (four bytes) |
| SM BYTE 2 | (default) | |
| SM BYTE 3 | through | |
| SM BYTE 4 | 255 | |
| LG BYTE 1 | 0 | Syslog server IP address (four bytes) |
| LG BYTE 2 | (default) | |
| LG BYTE 3 | through | |
| LG BYTE 4 | 255 | |
| GW BYTE 1 | 0 | Default gateway (four bytes) |
| GW BYTE 2 | (default) | |
| GW BYTE 3 | through | |
| GW BYTE 4 | 255 | |
| TIMEOUT | 0—3600 | Timeout for TCP/IP connections, in seconds. If |
| | (default | set to 0, the connection remains open until |
| | 90) | closed by the server. |

Sharing the Printer through an HP JetDirect Print Server

This section describes how to setup network printing using the HP JetDirect print server and software.

Server Configurations

Option 1

| Windows 95, 98 or NT 4.0 | Note: You may encounter problems printing with IPX/SPX in Windows NT |
|--------------------------|--|
| (TCP/IP or IPX/SPX) | 4.0. Larger print jobs may stop mid-page and continuously re-spool. We |
| | recommend that you use TCP/IP instead. |

There are two methods for configuring the printer onto the network.

Step 1 – Install HP JetAdmin

- 1. Insert the **HP JetDirect** CD into your CD-ROM drive. If the installation program does not run automatically, access File Manager or Explorer and run SETUP.EXE on the CD-ROM.
- 2. Select the option to install JetAdmin and follow the instructions on the screen.

Step 2 – Install HP DesignJet ColorPro Series Printer Software

- 1. If you are running Windows NT 4.0, log onto the computer as system administrator.
- 2. Insert the supplied connectivity software CD or diskette into your computer. Follow the instructions supplied with the software.
- 3. When prompted to select **Local/Existing** or **Network** in the **Printer Ports** group, select **Local/Existing**.

Step 3 – Associate Printer Software with JetDirect Port

- 1. In the **Printers** folder select **HP DesignJet ColorPro GA** or **CAD**, right click the mouse and select **Properties.**
- 2. Select the Details tab, click Add Port, and then click Other.
- 3. Select a new port to print to your printer and click **OK**.
- 4. Be sure to set up this printer as "shared".

Option 2

Alternatively, you may also configure the printer onto the network by using the HP JetDirect CD-ROM's installation utility:

- 1. Insert the **HP JetDirect** CD into your CD-ROM drive. If the installation program does not run automatically, access File Manager or Explorer and run SETUP.EXE on the CD-ROM.
- 2. Select Set up Network Printer and follow the instructions on the screen.

Queue Server Mode on NetWare 4.11 Bindery Networks

- Step 1 Install HP JetAdmin
- 1. Insert the **HP JetDirect** CD into your CD-ROM drive. If the installation program does not run automatically, access File Manager or Explorer and run SETUP.EXE on the CD-ROM.
- 2. Select the option to install JetAdmin and follow the instructions on the screen.

Step 2 – Configure the JetDirect Print Server

- 1. Log onto the network with Supervisor privileges at any user workstation.
- 2. Click **Start, Programs, HP JetAdmin Utilities**, and **HP JetAdmin** to run HP JetAdmin.
- 3. The following message may be displayed: "JetAdmin could not find any configured devices on your network. Do you want to configure one now?" Click **Yes** and proceed to step 5. (If this message is not displayed, go to step 4.)
- 4. On the HP JetAdmin Utility screen, press [F5] to refresh the list of printers. All configured print servers are displayed. Select **Device**, **New**.
- 5. On the **New Device** screen, highlight the LAN hardware address of your print server. (The 12-character hardware address is on the HP JetDirect configuration page.) See section on printing configuration page.
- 6. Click Configure. A General screen is displayed.
- 7. Type the name of the print server and a description (optional); then click **Next**. A NetWare configuration screen is displayed.
- 8. Click **Operating Mode** and select **Queue Server Mode**.
- 9. Click **Queues** and then click **Change**.
- 10. Select your NetWare server from the list and click **Create**.
- 11. Type a name for this printer queue in the **Create Queue** screen and click **OK**.
- 12. Click **Yes** to add the queue to the list of serviced queues.
- 13. Your configured queues are displayed under Serviced Queues, click OK.
- 14. Follow the instructions to complete configurations.

Queue Server Mode on NetWare 3.12 or 4.11 NDS Networks

Step 1 – Install HP JetAdmin

- 1. Insert the **HP JetDirect** CD into your CD-ROM drive. If the installation program does not run automatically, access File Manager or Explorer and run SETUP.EXE on the CD-ROM.
- 2. Select the option you desire and follow the instructions on the screen.

Step 2 – Configure Print Server

- 1. Log onto the network with Supervisor privileges at any user workstation.
- 2. For Windows for Workgroups 3.11, double-click the **HP Jet Admin Utilities** group.

For Windows 95, 98 and NT 4.0, click **Start, Programs, HP JetAdmin Utilities**, and **HP JetAdmin** to run HP JetAdmin.

- 3. The following message may be displayed: "JetAdmin could not find any configured devices on your network. Do you want to configure one now?" Click **Yes** and proceed to step 5. (If this message is not displayed, go to step 4.)
- 4. On the HP JetAdmin Utility screen, press [F5] to refresh the list of printers. All configured print servers are displayed.

Select Device, New.

- 5. On the **New Device** screen, highlight the hardware address of your print server. (The 12-character hardware address is on the HP JetDirect configuration page.) See section on printing configuration page.
- 6. Click Configure. A General screen is displayed.
- 7. Type the name of the print server and a description (optional); then click **Next**. A NetWare configuration screen is displayed.
- 8. Click Operating Mode and select Queue Server Mode.
- 9. Click **Network Directory Services**. Use the arrow key to select the name of the NDS tree (where objects are located) in the **Tree Name** Box.
- 10. Click **Browse** and expand the NDS tree. Then identify and select an appropriate context and click **OK**.
- 11. Click **Queues** and then click **Change**.
- 12. The **Queues** screen is displayed. In the **Available Queues** list, select the context path for your queue and click **Create**.
- 13. Type a name for this printer queue in the Create Queue screen.
- 14. Verify the File Server name and the Context for the Queue (it must be the same as the print server context) and click **OK**.
- 15. Click **Yes** to add the queue to the list of serviced queues.
- 16. Your configured queues are displayed under **Serviced Queues**; click **OK**, then **Next**.
- 17. If a TCP/IP screen is displayed, click Next.
- 18. Follow the instructions to complete configurations.

Client Configurations

Windows 95, 98 or NT 4.0 (Peer-to-Peer)

Step 1 – Install HP JetAdmin

- 1. Insert the **HP JetDirect** CD into your CD-ROM drive. If the installation program does not run automatically, access File Manager or Explorer and run SETUP.EXE on the CD-ROM.
- 2. Select the option to install JetAdmin and follow the instructions on the screen.

Step 2 – Associate Printer Software with JetDirect Port

- 1. In the **Printers** folder select **HP DesignJet ColorPro Printer**, right click the mouse and select **Properties**.
- For Windows 95/98, select Details tab, click Add Port, click Other, select HP JetDirect Port and click OK.
 For Windows NT 4.0, go to the Ports tab, select Add Port, and configure the type of Port Monitor you wish to use for this shared printer, such as HP JetDirect Port, and click OK.
- 3. Follow the instructions to configure your printer.
- 4. Be sure to set up this printer so that it is "shared".

Sharing the Printer through a PC

Before you proceed to install the printer software, ensure that the following are true:

| Server Configurations | The server computer (which the printer will be connected to) has been set up correctly in the networking environment. Refer to the documentation that comes with your network operating system for more information. Networking software and protocol must be present on both the server and client computers. The server computer must be turned on when the connection is being made. For Windows for Workgroups 3.11, the Print Manager must be enabled. To enable this, double-click the Printers icon in the Control Panel and choose Use Print Manager. For Windows 95, Windows 98 and Windows NT 4.0, file and printer sharing of the server computer must be enabled. |
|---------------------------|---|
| Server Comigurations | |
| Windows for Workgroups | Step 1 – Share the Printer on the Network |
| 3.11 | 1. Double-click the Printers icon in the Control Panel. |
| | 2. Select HP DesignJet ColorPro Series Printer and make sure that the Use |
| | Print Manager option is checked. |
| | 3. Choose Cancel or Close to exit the Control Panel. |
| | 4. Double-click the Print Manager icon in the Main group and select the |
| | printer. 5 Select Share Printer As from the Printer many If the Share Printer |
| | As option is disabled you have not enabled printer sharing. To enable |
| | this, double-click the Windows Setup icon in the Main program group. |
| | choose Change Network Settings in the Options menu and enable printer |
| | sharing. |
| | Click OK and restart Windows. |
| | 6. Specify a shared name for this printer, e.g. HP DesignJet ColorPro. |
| | 7. Check the Re-share At Startup option if you wish to share the printer |
| | permanently. |
| | 9. Proceed to install the printer software on the client computer. |
| Windows 05 08 or NT 4.0 | Sten 1 Share the Printer on the Network |
| vinuows 33, 30 01 141 4.0 | 1. To access the properties sheet of the printer right click on the printer icon |

- 1. To access the properties sheet of the printer, right-click on the printer icon in the **Printer** folder and select **Properties**.
- 2. Proceed to share the printer by selecting the Sharing tab in the Properties

sheet of the printer.

- 3. If you do not see the **Sharing** tab, you have not enabled file and printer sharing. To enable this, double-click the **Network** icon in the Control Panel. Click **File and Printer Sharing** and make sure both the check boxes are selected. Click **OK** and restart Windows.
- 4. In the **Sharing** tab, select **Shared As** and specify a shared name for this printer, e.g. HP DesignJet ColorPro.
- 5. Click OK.
- 6. Proceed to install the printer software on the client computer.

Client Configurations

| Windows for Workgroups | Step 1 – Map to the Shared Printer | |
|--------------------------|--|--|
| 3.11 | In the Connect Network Printer dialog box, type in the path where the printer has been mapped to and select the shared printer. Select the LPT port that you have just mapped and click OK. | |
| Windows 95, 98 or NT 4.0 | Click the Start button on the taskbar. Select Settings followed by Printers to open the Printers folder | |
| | Use Add Printer and follow the instructions for the driver. | |

Installing Alternative Drivers (for HP DesignJet ColorPro CAD printers only)

If your server is running Windows NT 4.0 and you wish to install Windows 95 or 98 drivers onto client computers over the network, you may do so if you have installed an alternative driver in your server. To install an alternative driver in your server:

- 1. Click the **Start** button on the taskbar.
- 2. Select **Settings**, followed by **Printers** to open the **Printers** folder. Rightclick on the **HP DesignJet ColorPro** Series Printer icon and select **Sharing...**
- 3. Select Shared and type in a Share Name of your choice.
- 4. Select Windows 95 under Alternate Drivers.
- 5. When prompted to insert a disk, click **OK**.
- 6. In the **Copy files from**: box, type the path where the driver files are located. You may also click **Browse** to point to the directory to be installed from.
- 7. Click **OK** and follow the instructions on the screen.

Next Steps

To complete the HP JetDirect Print Server configuration, you need to install and configure the relevant software on your computer. For details, see:

HP JetDirect Print Server Software Installation Guide