

# LANpress MP



## Installation & Configuration Guide



Part number: 61-1235-001 Rev. A

For use with Castelle's LANpress MP family of LANpress MP print servers

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- Company name, phone number, pager/cell phone number, email ID, fax number
- The type and model number of your unit
- The unit's 8-digit serial number, printed on a label on the bottom of the unit.
- The version number of the FaxPress software you are using.
- The version number of the unit's firmware.
- The version number of the network software you are using (e.g., NetWare 3.12).
- The network topology (e.g., Ethernet or Token Ring).
- The name and version numbers of the email system and clients you are using.
- A description of the problem or its symptoms.

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## Chapter I

# Introduction



This chapter provides an overview of your LANpress MP print server's features.

## **Features**

Congratulations on the purchase of your new Castelle LANpress MP print server. Your LANpress MP print server was designed to provide a simple and efficient network printing solution. It is packed with features, including:

- Versatility. The LANpress MP print server supports up to five protocols: NetWare, TCP/IP, SMB (Service Message Block), AppleTalk (EtherTalk), and NetBEUI. It features one or two Ethernet interface ports and operating system support includes Unix, Novell, and Microsoft Windows.
- Easy Installation. The LANpress MP print server makes adding printers or plotters to your network simple. The auto-sensing feature on the LAN interface means that there is no need to set jumpers or perform software configuration to select the network interface used.
- Easy Setup. A number of utility programs are supplied to simplify setup. For Windows 95/98/Me/NT/2000/XP users, the MPAdmin program makes it easy to configure the LANpress MP print server for a variety of network and server configurations.
- Web-based Interface. The Web-based interface provides an easy method of configuration in TCP/IP networks to every model.
- Compact Size. This allows the LANpress MP print server to be used even where space is limited.
- Remote Management Tools. A variety of software tools are provided. In most environments, both the LANpress MP print server and attached bi-directional printers can be configured remotely.
- SNMP Support. The LANpress MP print server can act as a SNMP agent, with it own MIB. This allows TCP/IP users to monitor, configure and troubleshoot the LANpress MP print server using their existing SNMP management tools.
- Internet Printing Protocol (IPP) Support. Some LANpress MP print server models can act as an IPP (Internet Printing Protocol) Server, allowing clients, suppliers, colleagues and others to print to your printer from anywhere on the Internet. Windows IPP Client software is also supplied.



Refer to the "Protocol Support" and "Feature Support" tables in Appendix A for details of which models support the different features.

## Safety Instructions

For your own safety, and to protect your LANpress MP print server, please observe the following safety advice.

- 1. Unplug this device from its power source before cleaning. Use only a slightly dampened cloth for cleaning. Do not use liquid or aerosol cleaners.
- 2. Avoid using this product near water. Exposure to water poses an electric-shock hazard.
- 3. Do not place the LANpress MP print server on an unstable surface. The device may fall causing serious damage to the device.
- 4. This device should only be used with the power supply type specified on the marking label. If you are not sure of type of your local power supply, consult your dealer or the local power company.
- 5. Do not pinch, crimp or otherwise damage the power cord. If exposed to foot traffic, ensures that the cable is properly shielded and does not pose a tripping hazard.
- 6. If using an extension cord, makes sure the total ampere rating of the products using the cord does not exceed the extension cord's ampere rating.
- 7. Do not attempt to service this device, as opening or removing casing may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
- 8. The LANpress MP print server should be serviced by qualified service personnel under the following conditions:
  - The power cord is damaged or frayed.
  - Liquid has been spilled onto the product.
  - The product has been exposed to rain or water.
  - The product does not operate normally in accordance with the operating instructions.
  - The device has been dropped or the casing has been damaged.

## Package Contents

You should find the following items packaged with your LANpress MP print server. If any items are missing, contact your dealer immediately.

- The LANpress MP print server
- Power Adapter
- One CD-ROM containing all support programs and this manual
- Quick Install Guide

## **Models**

This manual covers the following LANpress MP print server models. Details of the LEDs and DIP Switches are in this Chapter. Further details of each model are contained in *Appendix A* - *Specifications*.

## LANpress 3P/100

- ▶ 3 Parallel Ports
- ▶ 10/100BaseT



## LANpress 2000 1P Direct

- Direct Attach
- ▶ 1 Parallel Port
- ▶ 10/100BaseT



## LANpress 2000 USB

- ▶ 1 USB Print Port
- ▶ 10/100BaseT



## **LED Indicators**

All models have two LED indicators on the top. The Error LED is orange or red. The Status indicator LED is green. The LED indicator modes are described in the following table.

Green LED	Red/Orange LED	Status Description
Off	Off	No power.
On	On	Hardware error.
Flashing	Flashing	Firmware upgrade in progress.
On	Flashing (USB only)	No printer connected to the USB port.
On	Off	Normal operation - idle.
Flashing	Off	Normal operation - transmitting or receiving packets from the network.

## **DIP Switch Table**

Some models are fitted with DIP switches.

- The default position for all switches is UP.
- Normally, there is no need to change the settings of the DIP switches.
- The purpose of these switches is described in the following tables. Any other possible settings are reserved, and should not be used.

SW1	SW2	SW3	Description
UP	-	-	Auto select LAN connection (Default) Switches 2 and 3 have no effect
Down	Down	Down	10BaseT - Half Duplex
Down	Down	UP	10BaseT - Full Duplex
Down	UP	Down	100BaseT - Half Duplex
Down	UP	UP	100BaseT - Full Duplex

#### LANpress 3P/100

## **Diagnostic Push Button**

LANpress 2000 1P Direct is fitted with a Diagnostic Push Button. The button is recessed; a pin or paper clip can be used to press it. This button has 2 functions:

- Restore the factory default settings
- Print a test page containing all current settings.

#### To restore the factory default settings:

- 1. Turn the LANpress MP print server OFF.
- 2. Press and hold the diagnostic button. While pressing the button, switch the LANpress MP print server ON.
- 3. If you continue pressing the button for 10 seconds, a diagnostic page will be printed, showing the new (default) settings.

#### To generate a Diagnostic print out

- 1. Ensure that both the LANpress MP print server and the printer attached to port 1 are ON.
- 2. Press the diagnostic button, and hold it in for 2 seconds.
- 3. The test page, containing the current settings, will be printed.

#### Note:

PostScript printers are unable to print this page. If you have a PostScript printer on Port 1, the test page will not be printed.

# Chapter 2 LAN Installation



*This chapter describes how to install the LANpress MP print server in your Local Area Network.* 

## Procedure

## 1. Preparation

- Ensure the power is OFF. Do not connect the LANpress MP print server while power is On.
- Find the *Default Server Name* for your LANpress MP print server. The *Default Server Name* is shown on a sticker on the base of the device. It consists of 8 letters and/or digits. Record this name; it may be needed during configuration.

## 2. Connect the Printer or Printers

Connect the printer or plotter to the LANpress MP print server's printer port(s), as appropriate:

- **Direct Attach Models** Plug the LANpress MP print server directly into the parallel port on the printer.
- USB Ports Use the USB cable supplied with your printer to connect the printer to the LANpress MP print server's USB port.
- **Parallel Ports** Use a standard Parallel port cable to connect the printer to the parallel port on the LANpress MP print server. Parallel printer cables should be less than 3 meters long.

## 3. Connect the Network Cable

• Connect the network cable to the proper connector on the LANpress MP print server. The LANpress MP print server will automatically recognize whichever connector is used.

## 4. Power Up

Plug in the power adapter cable and power up. Start-up will take only a few seconds.

# Use only the Power Supply unit provided with the device. Power Supply units for different models are not interchangeable.

## 5. Check the LEDs

- The Red Error LED should flash, then turn Off. When the Red LED goes off and the Green LED remains lit or flashes, the LANpress MP print server is ready.
- For models with USB ports, the Red Error LED will remain flashing if the LANpress MP print server can't connect to the printer.
- If your model supports 10BaseT and 100BaseT, check the 10/100BaseT link LED or LEDs next to the LAN connection. If the auto negotiation **Fails**, the LED (or both LEDs, if there are 2) will be **Off**. In this case, set the DIP switches to suit your LAN, as described in the *DIP Switch Table* in Chapter 1.

## Chapter 3

# LANpress MP print server Configuration

3

#### This chapter provides an overview of the configuration process.

## **Overview**

The LANpress MP print server is designed to support many different platforms, and the configuration required would depend upon the environment in which it is installed.

- The LANpress MP print server usually requires configuration, but if there's a DHCP server on your network, then the device is just plug-and-play.
- PCs wishing to use the printer attached to the LANpress MP print server always require configuration. See *Chapter 4- Client Configuration* for details.
- If using a NetWare Server (V3, 4, or 5 in "compatibility" mode):
  - For advanced configuration and management, the MPAdmin program (detailed in *Chapter 5 MPAdmin Management Utility*) is recommended.
  - If using NDPS, refer to Appendix B Network Server Configuration.
- If you wish to use a queue-based printing system using **Windows NT Server/Windows** 2000/Windows XP, the Network Server must be configured as detailed in *Appendix B* - *Network Server Configuration*. However, it is not necessary to use a Network Server-based queue; client PCs can print directly to the LANpress MP print server using the *Peer-to-peer Print Driver* installed by the *User* setup option on the CD-ROM.

## **Configuration Alternatives**

You can use one of the following methods to configure the LANpress MP print server.

MPAdmin	See <i>Chapter 5 - MPAdmin Management Utility</i> for details on installing and using the Windows utility.	
Web Browser	See Chapter 6 - Web Interface Setup for details.	
FTP	Using this method, the configuration file is downloaded from the LANpress MP print server, edited, then sent back. No software needs to be installed.	
	See the UNIX manual for details. The Unix manual is on the CD-ROM, in the Manual\Unix folder	
Quickset	Command-line DOS program, intended only to configure the LANpress MP print server for use with NetWare V2, 3 and 4. This program also has a limited ability to configure the NetWare Server itself.	
	This program is on the CD-ROM, in the Utilities\DOS folder. Instructions for using the program are in a sub-folder of the Manual folder on the CD-ROM.	

## Advanced Configuration and Management

The MPAdmin management utility is provided for advanced configuration and management. This program is installed by default when the *Administrator* install option is chosen.

- See Chapter 5 for details on using MPAdmin.
- For instructions on using MPAdmin for NetWare configuration, see the *NetWare* manual on the CD-ROM. It is located in the Manual/Netware folder.

# Chapter 4 Client PC Configuration



The chapter details the client configuration required on LAN clients to use the printer or printers attached to the LAN press MP print server.

## **Overview**

Before performing client configuration, the LANpress MP print server must be installed on your LAN, and configured as described in Chapter 3. Both the LANpress MP print server and the attached printer must be powered ON.

## **Printing Methods**

The LANpress MP print server supports a number of printing methods:

- *Peer-to-peer Print Driver* is used by the *User* installation on the CD-ROM. The print jobs are stored (queued) on your PC, and sent to the LANpress MP print server when it is available.
- *Server-based Print Queue* means that all print jobs are stored (queued) on the Network Server (e.g. NetWare, Windows NT/2000) and then sent to the LANpress MP print server. This allows the Network Administrator to modify the Print Queue. For example, an important job can be moved to the head of the queue.
- *Windows SMB* printing is a Microsoft standard for using a "Network Printer". No additional software needs to be installed on your Windows PC, and printing from MS-DOS programs is supported. However, because the LANpress MP print server can not store files, large print jobs may cause problems.
- *AppleTalk* is also supported, and normally no configuration of the LANpress MP print server is required. See the Macintosh section of this chapter for details of client configuration.

## Which printing method should I use?

- If using Windows 95, 98, NT, Me, 2000, or XP, the easiest method is to install the *Peerto-peer Print Driver* on the CD-ROM, by selecting the *User* installation.
- If using Windows, and you need to print from MS-DOS programs, or you don't wish to
  install additional software, use SMB.
  However, SMB is not suitable for large, complex documents, so if you need this as well as
  MS-DOS printing, you should install BOTH the *Peer-to-peer Print Driver* and SMB
  printing. MS-DOS programs can use the SMB printer, Windows programs should use the *Peer-to-peer Print Driver*.
- If your LAN has Network Servers (e.g. Windows NT, Windows 2000 Server, NetWare) use the method advised by your Network Administrator. The LANpress MP print server can print via a queue located on a Network server, if desired.
- Unix users refer to the Unix Manual on the CD-ROM, in the Manual/Unix directory.
- Macintosh users refer to the Macintosh section of this chapter.

#### **Checking your Network Protocols (Windows 9x)**

Your PC must have EITHER the TCP/IP or NetBEUI protocols installed. (All versions of Windows after Windows 95 have TCP/IP installed by default.)

- If using the *Peer-to-peer Print Driver*, the installation program will check this for you.
- If using *Windows SMB Printing*, you must check manually, as follows:
- 1. Select the *Settings Control Panel Network* option on the Start Menu. You should see a screen like the one following:

Network ? 🗙
Configuration   Access Control
The following <u>n</u> etwork components are installed:
NetBEUI -> PCI Fast Ethernet Adapter
NetBEUI -> Dial-Up Adapter
Free NetBEUI -> Dial-Up Adapter #2 (VPN Support)
TCP/IP-> PCI Fast Ethernet Adapter
TCP/IP -> Dial-Up Adapter
TCP/IP -> Dial-Up Adapter #2 (VPN Support)
📮 File and printer sharing for NetWare Networks 📃 📃
Add Remove Properties

Figure 1: Network Configuration

- The top line in the list (NetBEUI -> PCI Fast Ethernet Adapter) indicates that the NetBEUI protocol is installed on this PC. Your PC will show the name of the your Network card rather than "PCI Fast Ethernet Adapter".
- The highlighted line (TCP/IP -> PCI Fast Ethernet Adapter) indicates that TCP/IP is installed. Your PC will show the name of the your Network card rather than "PCI Fast Ethernet Adapter".
- 2. If neither line is present:
  - Install the NetBEUI protocol by selecting *Add Protocol Microsoft NetBEUI OK*. You may be prompted for your Windows CD-ROM.
  - If required, you can also install TCP/IP. However, depending on your LAN environment, TCP/IP may require further configuration.
- 3. If either protocol is already installed, proceed with installation.

## Windows Peer-to-peer Print Driver

With this printing method, print jobs are stored (queued) on your PC, and then sent to the LANpress MP print server when it is available.

#### Setup

Before performing the following procedure, the LANpress MP print server must be installed on your LAN, and configured as described in Chapter 3. Both the LANpress MP print server and the attached printer should be powered ON.

- 1. Insert the supplied CD-ROM into your drive. If the setup program does not start automatically, run SETUP.exe in the root folder.
- 2. Choose *Installation*, then select the *User* option. This will install the *Peer-to-peer Print Driver*.
- 3. Follow the prompts to complete the installation. (Refer to the *Windows* section of *Chapter* 8 *Troubleshooting* if there is a problem with the installation.)
- 4. The Print Driver Setup will then run.
- 5. The LAN will be searched for LANpress MP print servers, and a screen like the following will be displayed.
  - If desired, click *Refresh*.
  - The name of the attached printer will be displayed if possible. If "No printer" is displayed, check that the printer is properly connected and powered on.

📌 Printer Port Setup 🛛 🛛 🗙
Refresh
🚊 — 🚛 PS323460 📃
🦉 Port 1,HP LaserJet 5000LE
😑 👝 SC001110
🧼 🥩 Port 1,HP LaserJet 2100 Series
🚊 🗁 🚛 SC001510
🧼 🥩 Port 1, Unknown Printer Model
🖕 👘 🚮 SC779330
Port 1,HP LaserJet 5000 Series
🖕 🗛 SCA71031
* Indicates Port is already installed. Select "Next" to change connected
Next Close

Figure 2: Print Port Setup (Peer-to-peer Print Driver)

#### If your LANpress MP print server is not listed:

- Click the "Refresh" button.
- Check that both the LANpress MP print server and the printer are properly connected, and powered on.
- Check that the LANpress MP print server has been configured.
- If using TCP/IP, try installing the NetBEUI protocol. (See the earlier section *Checking your Network Protocols* for details.). Then try again.

6. Select the desired printer port, and then click the "Next" button. A pop-up message will inform you if the port has been created successfully.



7. Then a screen like the following will be displayed:

Configure Printer Port		×
Port Attached Printer	SC001500_P1 HP LASERJET 5000 SERIES	
Existing Printers hp deskjet 990c s HP Laserlet 5001	eries ILE PCL 6	
	Add New Printer	
Com	ect Cancel	

Figure 3: Configure Printer Port

8. Select the correct Windows printer in the *Existing Printers* list, and click the "Connect" button.

If the correct printer type is not listed, click "Add New Printer" to run the Windows *Add Printer* wizard. Step through the Wizard and install the required printer:

- Select the correct Printer Manufacturer and Model, or use the "Have Disk" option if appropriate.
- We recommend changing the Printer name to indicate which device is on. (e.g. HP2100 on CTA43600\_P1)
- If prompted about Sharing the printer, do NOT enable Sharing.
- When the Printer installation is finished, it will be listed in the *Configure Printer Port* screen above. Select it and click "Connect".
- 9. Installation is now complete. You can now print using this printer.
  - To install additional Printers, repeat steps 6 to 8.
  - Use the *Start* menu to run this program in future. The default installation is *Start Programs PrintServer Driver Print Driver Setup*.

## Management

- Print jobs can be managed like any Windows printer. Open the *Printers* folder (*Start Settings Printers*) and double-click any printer to see the current print jobs.
- If the printer attached to the LANpress MP print server is changed, just run this program again, and select the correct printer.
- To delete a port created by this setup program, use the Windows *Delete Port* facility:
  - Right-click any printer in the *Printers* folder, and select *Properties*.
  - Locate the *Delete Port* button. This button is on the *Details* or *Ports* tab, depending on your version or Windows.
- If the LANpress MP print server's IP Address is changed, and you can no longer print, delete the port (see procedure above) and re-install it.

## Port Options

The options for the *Peer-to-peer Print Driver* are accessed via the *Port Settings* button.

Use *Start* - *Settings* - *Printers* to open the Printers folder, then right-click the Printer, and select *Properties*. The *Port Settings* button is on the *Details* or *Ports* tab, depending on your version of Windows.

An example screen is shown below:

HP LaserJet 4 Plus Properties	<u>?</u> ×	
General Details Paper Gra	phics Fonts Device Options	
HP LaserJet 4 Plus		
Print to the following <u>p</u> ort: SC300014_P1 (PrintServer)	Port Device Name: SC300014	
Print <u>u</u> sing the following driver HP LaserJet 4 Plus <u>C</u> apture Printer Port	Select Device Port >> Parallel 1 Port Name: SC300014_P1	(secs) Driver Version: NetBEUI 2.00
Timeout settings Not <u>s</u> elected: 15 Transmission <u>r</u> etry: 45	Banner Enable Banner PostScript User Name:	OK Cancel
Sp	ool Settings	
0	Cancel Apply	

Figure 4: Port Settings (Peer-to-peer Driver)

Items shown on this screen are as follows:

Port	If desired, click <i>Browse</i> to select a different LANpress MP print server. If the selected device has multiple ports, the <i>Select Device Port</i> button can be used to select the port.
	The <i>Port Name</i> can not be changed after installation. This name is shown in the Printer's <i>Properties</i> .

Banner	<ul> <li>Check this option to print a banner page before each print job.</li> <li>If using a PostScript Printer, check the <i>PostScript</i> box.</li> <li>The <i>User Name</i> will be printed on the banner page.</li> </ul>		
Retry Interval	Sets how often Windows will poll the LANpress MP print server to establish a connection when the printer is busy. Increase this value if you get too many warning messages.		

## Windows SMB Printing

This method requires no additional software to be installed, but the NetBEUI or TCP/IP protocol must be installed on your PC. Use the following procedure to install the LANpress MP print server's printer as a Windows SMB network printer:

- 1. Double-click the *Network Neighborhood* icon on the desktop.
- 2. On the View menu, select Details.
- 3. Locate the desired LANpress MP print server, as shown below:
  - If it is the same Workgroup as your PC, it will be listed on screen.
  - If it is in a different workgroup, double-click *Entire Network*, then double-click the appropriate Workgroup to open it.

A WORKGROUP		zip 💶 🛛 🗙
_ <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o F <u>a</u> voi	rites <u>H</u> elp	-
] ← ▼ → ▼ 🖻 👗 🖻 🖺 🗠	) 🗙 🖀 🔳 🕶	
Address 🛃 WORKGROUP		•
Name	Comment	
🗏 SC000034	Print Server	
EP3F6N8		

Figure 5: Network Neighborhood

- 4. Double-click the LANpress MP print server icon to view a Printer icon for each printer port. The "Comment" field may indicate what type of printer is connected to the port.
- 5. To install a printer, right-click the desired printer icon, and choose "Install", as shown below. This will start the *Add Printer* wizard.

🚍 SC3	00014		210 💶 🗖 🗙
<u> </u>	<u>E</u> dit ⊻iev	w <u>G</u> o F <u>a</u> vorites <u>H</u> elp	
⇔ ▼	⇒ - E *	= 1   X B B   M   X B   I ▼	
Addre:	ss 📃 \\SC	300014	•
Name		Comment	
<u>1</u>		HP 2100 PCL6	
	<u>O</u> pen		
	<u>I</u> nstall		
	<u>C</u> apture F	rinter Port	
	Create <u>S</u> h	ortcut	
😓 Se 🗌	Properties	8	11.

Figure 6: Install SMB Printer

- 6. Follow the prompts to complete the installation.
  - For information about the question "Do you print from MS-DOS programs?", see *Printing from MS-DOS Programs* below.
  - Select the Printer Manufacturer and Model to match the printer connected to this port on the LANpress MP print server, and complete the Wizard.
- 7. This printer will now appear in your *Printers* folder (*Start Settings Printers*) and can be used like any other printer. However, SMB printing is not suitable for large complex print jobs you should use the *Peer-to-peer Print Driver* instead.

## **Printing from MS-DOS Programs**

Windows can redirect print data from a parallel port on your PC (e.g. LPT1) to a network printer. This redirection is called "Capture Printer Port", and is useful for MS-DOS programs.

The MS-DOS program is configured to use LPT1 (parallel port 1 on the PC), but Windows "captures" the print data and sends it to the network printer.

## Capture Settings

Capture settings can be set by:

- Saying "Yes" to the prompt "Do you print from MS-DOS programs?" when installing a Network Printer.
- OR, using the *Capture Printer Port* menu option shown in Figure 6 above.

This will result in a dialog like the following, where you can select the port on the PC to be captured. Normally, this will be LPT1 (parallel port 1 on the PC).

Capture F	Printer Port	? X
<u>D</u> evice	🖆 LPT1 💽	OK
<u>P</u> ath:	\\SC300014\P1	Cancel
	🔽 Reconnec <u>t</u> at logon	

Figure 7: Capture Printer Port

The *File* menu in the *Printers* folder also has options for *Capture Printer Port* and *End Capture*.

## Windows with Server-based Print Queues

- 1. Open your Printers folder, and start the Add Printer Wizard.
- 2. When prompted, select Network Printer.
- 3. When prompted for *Network Path or Queue Name*, click the *Browse* button, and locate the Server and Printer (or Print Queue) which your Network Administrator advised you to use.
- 4. Click OK, then Next.
- 5. Select the correct printer Manufacturer and Model, as advised by your Network Administrator, and click *Next*.
- 6. Follow the prompts to complete the Wizard.

The new printer will be listed with any other installed printers, any may be selected when printing from any Windows application.

## Windows LPR Printing

- 1. Open your *Printers* folder, right-click the desired printer and select *Properties*.
- 2. When prompted, choose the *Ports* tab and click the *Add Port* button.

IP Color La	serJet 5/5M	PS Properties	? ×
Color Ma General	nagement   Shar	the second	ce Settings
🏐 HF	<sup>o</sup> Color LaserJet	5/5M PS	
Print to the fo	bllowing port(s). I	Documents will print to the first fre	
checked por	t.		
Port	Description	Printer	
LPT1:	Printer Port	HP Color LaserJet 5/5	M PS,
LPT2:	Printer Port		
LPT3:	Printer Port		
_	Serial Port		
СОМ2:	Serial Port		
Сомз:	Serial Port		
🗆 сом4:	Serial Port		
Add P	ort	Printer Ports	
Add F	on	Available port types:	
Enable bi	directional supj	the second s	
	inter pooling	Local Port LPR Port	
criable pi	inter pooling	NetGear Print Server	
		PDF Port	
		PrintServer	
		Standard TCP/IP Port	
		New Port Type	New Port Cancel

Figure 8: Properties Screen

- 3. Choose Standard TCP/IP Port, then click New Port.
- 4. Enter the Printer Name or IP Address, click Next.
- 5. Enable *Custom*, and click *Setting* button.

Additional Port	Add Standard TCP/IP Printer Port Wizard       Additional Port Information Required       The device could not be identified.				
<ol> <li>The device is</li> <li>The network is</li> <li>The device is</li> <li>The address is</li> <li>If you think the address is</li> </ol>		ect. ack to return to the			
Select the device Device Type C Standard	Generic Network Card			<b>_</b>	
Custom	Settings	< Back	Next >	Cancel	

Figure 9: Add Standard TCP/IP Printer Screen

6. Choose *LPR* in the Protocol section, then enter *Queue name* and enable the *LPR Byte Counting*.

Configure Standard TCP/IP Port Monitor				
Port Settings				
	[			
Port Name:	IP_192.168.2.33			
Printer Name or IP Address:	192.168.2.33			
Protocol				
C Raw	● LPR			
Raw Settings				
Port Number: 9100				
LPR Settings				
Queue Name: L1				
LPR Byte Counting Enabled				
SNMP Status Enabled				
Community Name: public				
SNMP Device Index: 1				
	OK Cancel			

Figure 10: Port Settings Screen

7. Follow the prompts to complete the Wizard.

The new printer will be listed with any other installed printers, any may be selected when printing from any Windows application.

## Windows using NDPS

Before using NetWare NDPS (NetWare Distributed Printing Service), one or more NDPS Printer Agents must be created on the NetWare Server. See Appendix B for details of this procedure.

Also, on your workstation, ensure that:

- Novell IntranetWare Client v2.2 (or later) is installed on your PC.
- You have access to the Novell Printer Manager utility (e.g. Nwpmw32.exe).

## Procedure

- 1. Start the Novell Printer Manager utility.
- 2. Select *Printer New* from the menu, then click *Add*.
- 3. Select the required printer and click *Install*, then *Close*.

_ Access Control
Printer Agent List
E

Figure 11: NDPS Manager - Client

- 4. The printer (e.g. SerPrinter in the example above) appears in the main Printer Manager window in the *Name* list, and is available for print jobs. Printer drivers are automatically downloaded from the server as required.
- 5. The printer will appear in your Windows printer list, and may be used from by any Windows application.

## Macintosh (AppleTalk)

The LANpress MP print server supports AppleTalk (EtherTalk), PAP, ATP, NBP, ZIP and DDP protocols, enabling Macintosh computers on the network to view and use the LANpress MP print server as a regular AppleTalk printer.

Normally, no configuration is required.

## **Software Requirements**

System 9.x OS or newer.

## AppleTalk Setup

- 1. Click the apple icon and choose Control Panel.
- 2. Click AppleTalk.
- 3. Ensure that *Ethernet* is selected under *AppleTalk Connection*.
- 4. Click Chooser. The Chooser panel will open.
- 5. Click on either the LaserWriter 8 icon (recommended) or the LaserWriter 7 icon. LaserWriter 8 makes use of the fonts installed in the printer itself, so the printing response time is quicker. LaserWriter 7 uses the fonts installed in the computer, which increases network traffic and takes more printing time.
- 6. Choose a PostScript printer from the list.
- 7. Click Create and it will search PPD automatically.
- 8. Select a printer description from the list.
- 9. Click *Select*. Configuration is now complete.

## Printing

Printing with the LANpress MP print server installed in an AppleTalk network is identical to normal printing. Just select *File - Print* and choose the desired printer.

## **Advanced Setup and Management**

In a mixed Windows PC/Macintosh environment, you can use MPAdmin to configure the LANpress MP print server. See Chapter 5 for details on installing and using MPAdmin.

## Macintosh OS X

If using LPR printing, you need to configure the printer. But no configuration is required if using AppleTalk.

## LPR printing Setup

1. Select Printer List icon.



Figure 12: Printer List

- 2. Click *Add Printer* button.
- 3. Choose LPR Printers Using IP.

00	Printer List	
0	LPR Printers using IP	
	LPR Printer's Address: 11.0.0.21 Internet address or DNS name	
	Use Default Queue on Server Queue Name: L1	
	Printer Model: HP LaserJet 2200	11.
	Cancel Add	

Figure 13: LPR Screen

- 4. Enter the *Printer's Address* and the *Queue Name*.
- 5. Select the *Printer Model* from the drop-down list.
- 6. Click *Add*. Configuration is now complete.

# Chapter 5 MPAdmin Management Utility



*This chapter describes the installation and operation of the MPAdmin Configuration & Management program.* 

## Requirements

This program requires:

- Windows 95, Windows 98 or Me
- Windows NT 3.51, Windows NT 4.0, Windows 2000 or XP

#### Additional Recommendations:

- Screen resolution of 800 \* 600 or greater.
- If using Novell NetWare, installation of Novell's *Client 32 for Windows* is strongly recommended. This will greatly enhance the ability to MPAdmin to work with NetWare servers.

## Installation

Use the supplied CD-ROM. This CD-ROM will usually auto-run. If auto-run is disabled on your PC, run the SETUP.exe program in the root folder.

- Select Installation and this will give you the options of MPAdmin installation
  - MPAdmin is always installed if the *Administrator* option is chosen.
  - If using the *Custom* option on the CD-ROM, select *MPAdmin*.

## **Operation**

- Start the program by using the icon created by the setup program.
- When run, the program searches the network for all active LANpress MP print servers, then lists them on screen, as shown by the example screen below.

## **Main Screen**

Castelle Print Server Administration Utility - MPAdmin				
Status Refresh InitDevice Configuration Diagnostics Control Help				
🥏 🎜 💓 💥	: 🝯 🚣 🛸 🗡	े 🎼 🛷 😤 📭		
Group	Default Name	Device Name	Printer Port	
	1 CT02B30C	CT02B30C	LANpress 1P Direct	
	2 CTB05103	CTB05103	LANpress 2000 USB	
*				11.

Figure 14: MPAdmin Main Screen

## Groups

On the left side of the screen is a column for *Groups*. Each LANpress MP print server may be placed in a group, using the *Configuration-System Configuration-Groups* menu option.

- If a group is selected, only LANpress MP print servers in that group will be listed on the right side of the screen.
- By default, all LANpress MP print servers will appear in the [ROOT] group.
- A LANpress MP print server can only be a member of one (1) group, and will always be a member of a group.
- Use the *Configuration-System Configuration-Groups* menu option to select a group for the current LANpress MP print server.
- To create a new Group and add the current LANpress MP print server to it, just enter a group name in the dialog. (See example screen below)

System Configuration			×
Selected Device: SC001	510		
Device Name:	SC001510		
Group Name :			Del Group
_IPX/SPX Protocol -			
	🔿 Disable	Enable	
TCP/IP Protocol —			
	O Disable	🖸 Enable	
– Apple Talk Protocol			
	🔿 Disable	💿 Enable	
– NetBEUI Protocol –			
	🔿 Disable	💿 Enable	
Set to <u>D</u> efault	<u>S</u> ave	Cancel	Help

Figure 15: System Configuration - Groups

## **Device List**

On the right side of the screen is a list of all LANpress MP print servers found on the network. For each device, the following data is shown:

- Default Name. The Default Server Name is shown on a sticker on the base of the device.
- **Device Name**. If you have not changed the name, this will be the same as the *Default Server Name*.
- **Printer Port**. The number and type of ports is shown in the right column.

#### If the desired LANpress MP print server is not listed, try the following:

- Check that the device is installed and ON, then *Refresh* the list.
- Use the *InitDevice Find* menu option to search for the LANpress MP print server. You need to know the *Default Name* of the LANpress MP print server. The *Default Server Name* is shown on a sticker on the base of the device.
- If the LANpress MP print server is on another LAN segment, use the *InitDevice Attach Remote* menu option to locate and display the LANpress MP print server.
- For networks using ONLY TCP/IP, LANpress MP print servers without an IP Address will not appear. Use the *InitDevice Set IP Address* menu option to assign an IP Address, then *Refresh* the list. You need to know the *Default Name* of the unlisted device in order to assign an IP Address. The *Default Server Name* is shown on a sticker on the base of the device.

#### Status Icons

Once a LANpress MP print server has been selected, the Icons become active.



The icons provide status information as well as access to the selected LANpress MP print server settings. If an icon is grayed out, that option or protocol is unavailable.



#### **Device Information**

#### Menu equivalent: Status - Backup/Restore Device Information

All of the settings for the current device are displayed in a read-only scrollable list in the left panel.

You can use the "Save to File" and "Restore to Device" buttons on this screen to save a copy of the selected device's CONFIG file to your PC, or restore a previously saved file to the selected LANpress MP print server.

Backup/Restore Device Information	×
Selected Device: SC001510 Save to file	Selected file : Open
Hardware ID: 009700945C Firmware Version: 6108 Protocol ID: 007F Default Name: SC001510 Server Name: SC001510 Netware Info: Master File Server: NDS Tree Name: NDS Tree Name: NDS Tree Name: NDS Tree Context: Print Server Mode Status: Remote Printer Mode Status: N/A Ethernet II Network Number: 00000000	
Exit	Restore to Device



## **Printer Status**

Menu equivalent: Status - Port Status

After selecting this icon, a *Detail* button will be available to show more information about the printer.

Printer Status	×				
Selected Device: SC001510					
Current Selected Port:	Current Selected Port:				
Parallel Port 1 Details					
Port : P1					
Status :	Offline				
Printing Information :	Idle				
Back Refresh	Printer Configuration Help				

#### **Configuration Icons**

The following icons are available. Refer to the on-line help for details of the data on each screen.



#### NetWare

Menu equivalent: Configuration - NetWare

MPAdmin supports configuration of both the LANpress MP print server and Novell NetWare servers.

- You need to be logged into the NetWare server(s) with ADMIN rights.
- The screens you will see, and the operations which can be performed, depend on whether or not you have *Novell NetWare Client 32* installed.
  - If *Novell NetWare Client 32* is installed on your PC, MPAdmin allows you to configure both the LANpress MP print server and the NetWare server from within MPAdmin.
  - If this *Novell NetWare Client 32* is NOT installed, you can configure only the LANpress MP print server itself, not the NetWare server.
- The **NetWare Manual** (in the Manual\NetWare folder on the CD-ROM) contains detailed information on using MPAdmin with NetWare Servers.

Netware Configuration	×
Selected Device: SC001510 Mode Print Server Mode: © Bindery © NDS	Frame Type ▼ 802. <u>2</u> ▼ 802. <u>3</u> ▼ SNAP
Remote Printer Mode : C Bindery C NDS	Ethernet II
Contigue C	ancel Help



## **TCP/IP Configuration**

#### Menu equivalent: Configuration - TCP/IP

Selecting this icon will allow configuration for TCP/IP. Some models may also display the setup data for the proprietary "Internet Printing" feature (printing via E-Mail).

LANpress 2000 USB and LANpress 2000 1P Direct also support Auto-IP function. If the LANpress MP print server is set to " Dynamic IP Address ", but there's no DHCP server found on the network, the LANpress MP print server will get an IP from the range of 169.254.1.1 ~ 169.254.254.254 automatically. Even though the device was initialized with an Auto-IP executed, the device will change to DHCP whenever a DHCP server was detected.

Selected Device: SC001510	
IP Address: 0 0 0 0 Save to Device	
I I I I I I I I I I I I I I I I I I I	
Subnet Mask: 0 0 0 Cancel	
Gateway Address: 0 0 0 0 Help	
TCP session     -       Retry interval:     2       Retry count:     254	



## AppleTalk Configuration

#### Menu equivalent: Configuration - AppleTalk

Generally, no LANpress MP print server configuration is required in order to use AppleTalk.

AppleTalk Configuration	×
Selected Device: SC001510	
Zone Name:	
Current Selected Port:	
P1	
Configuration:	
Printer Type: LaserWriter	
Communication Protocol: C ASCII    Binary	
Set to Default Save to Device Cancel Help	

NetBEUI Configu	ration
Menu equivalent: Con	figuration - NetBEUI
NetBEUI Configurat	ion
Selected Device:	SC001510

Selected Device: SC001510		
	Domain Name: WORKGROUP	
	Response Time (0.1 sec):	
	Abort Job As Paper Out: 💿 No 🔿 Yes	
	Set to Default Save to Device Cancel Help	



## **SNMP** Configuration

#### Menu equivalent: Configuration - SNMP

Configuration is only required if using Simple Network Management Protocol. See Chapter 7 for details.

SNMP Configuration	×
Selected Device: SC001510	
SysContact :	
SysLocation :	
Configuration Item :	
M1 T1 C Disable	
M2 T2 M3 T3 M4 T4 © Enable	
M4 T4	
с M1	
Manager IP Address : 0 0 0	
Community String : public	
Read Only C Read/Write C Not Accessible	
Set to Default Save to Device Cancel Help	1
Set to Default Save to Device Cancel Help	

X



## **Logical Port Configuration**

#### Menu equivalent: Configuration - Logical Port

Logical port (printers) can be used in the NetWare and Unix environments.

Logical Port Configuration	×
Selected Device: SC001510 Current Selected Logical Port	
Configuration	Set to Default
Physical Port: P1	Save to Device
String Before Job:	Cancel
String After Job:	Help

## Other Icons



#### Upgrade

#### Menu Equivalent: *InitDevice - Upgrade*

This option allows you to upgrade the firmware for the selected LANpress MP print server. Before using this option, you need to obtain the .BIN file for the firmware upgrade, and copy it to the same directory as MPAdmin.



#### Refresh

#### Menu Equivalent: Refresh

Select this icon to update the LANpress MP print server device listing after changing the name or IP Address.



## Exit

Menu Equivalent: Status - Exit

Exit the MPAdmin program. This does not save any changes you have made; you must *Save to Device* on each screen.

## **Menu Options**

## Status Menu

<b>Device Info</b>	Same as <i>Device</i> button.
	Display all the configuration and status information about the selected LANpress MP print server. The data is presented in a scrolling, read-only window.
Port Status	Same as Printer Status button.
Exit	Same as <i>Exit</i> button.

## InitDevice Menu

Reset Device	This will cause the device to reboot. This should be done after making any configuration changes, or if the device stops responding after some problems.
Restore Factory Default	This will restore ALL device values to their factory defaults. To restore only the current screen, use the <i>Set to Default</i> button on the screen.
Set Password	This is used to change the password of the LANpress MP print server.
Set IP Address	For TCP/IP networks only:
	• If a LANpress MP print server does not appear on the main screen, use this option to set a Device IP Address, Gateway IP Address, and Network Mask to the LANpress MP print server.
	• This should only be necessary if your LAN is using ONLY the TCP/IP protocol. In other cases, MPAdmin will use IPX/SPX to locate the LANpress MP print server even if it doesn't have a valid IP Address.
	• To locate the LANpress MP print server, enter the <i>Default Name</i> . The <i>Default Server Name</i> is shown on a sticker on the base of the device.
	• Enter the required IP Address, Network Mask, and Gateway IP Address.
	• After saving the data to the device, refresh the listing. The LANpress MP print server should then appear in the device list on the main screen.
Attach Remote	This is used to connect to a LANpress MP print server device on another LAN segment. If your LAN does not have a Router, ignore this option.
Connected Protocol	This option allows you to designate which LAN protocol will be used for communication between the selected device and this application. You should select ONE protocol only.
Upgrade	Upgrade the firmware in a LANpress MP print server. See <b>Upgrade</b> <b>Icon</b> for details.
Find	Use this option to use the IPX/SPX protocol to locate a LANpress MP print server on the LAN. Simply enter the <i>Default Name</i> of the LANpress MP print server you wish to locate. The <i>Default Server Name</i> is shown on a sticker on the base of the device.

The *System* option allows you to:

- Change the name of the selected LANpress MP print server.
- Change the "Group" for the selected LANpress MP print server.
- Set the Network Protocols used the selected LANpress MP print server. (Any protocols not used on your LAN may be disabled. This may improve performance.)

The *Configuration Menu* also contains selections for each of the following. These have the same effect as the corresponding Icon:

- NetWare
- TCP/IP
- AppleTalk
- NetBEUI
- SNMP
- Logical Port

## **Diagnostics menu**

Print Test PageUse this option to print a test sheet from the selected LANpressMP print server port. The test print out will include status information.	ress
---	------

#### **Control Menu**

Abort Mail Print	This menu option refers to print jobs which has been received
Job	through the proprietary "Internet Printing" feature (printing via E-
	Mail). This menu option can be used to terminate a print job which is not printing correctly.



The "Abort Mail Print Job" menu option can NOT be used to cancel IPP (Internet Printing Protocol) print jobs.
# Chapter 6 Web-Based Management



This chapter explains how to use your Web Browser to configure the LANpress MP print server models

### **Overview**

The LANpress MP print server models incorporate the HTTP server. This allows you to connect to the LANpress MP print server and configure it using your Web Browser. Most browsers should work, provided they support tables and forms.

### Preparation

Because it supports dynamic IP Address allocation using DHCP, BOOTP, or RARP, the LANpress MP print server ships with an IP Address of 0.0.0.0. This is NOT a valid IP Address.

Therefore, you must do ONE of the following:

- Check your **DHCP server** (if you have one), and determine the IP Address allocated to the LANpress MP print server.
- Use the **Diagnostic Button** (if fitted) to print a report which includes the current IP address. (Press the Diagnostic Button, and hold it for 2 seconds.)
- Use the **MPAdmin** or another LANpress MP print server utility to allocate a valid IP Address to the LANpress MP print server.
- Add an entry to the **arp** table to associate the hardware address of the LANpress MP print server with the desired IP address, as follows:

arp -s IP\_Address 00:c0:02:xx:xx:xx (Unix) arp -s IP Address 00-c0-02-xx-xx-xx (Windows)

Where:

IP\_Address is the IP Address you wish to assign to the LANpress MP print server. 00:c0:02:xx:xx:xx is the hardware address of the LANpress MP print server.

Example (Unix):

arp -s 192.168.0.21 00:c0:02:12:34:56

Example (Windows):

arp -s 192.168.0.21 00-c0-02-12-34-56

**Note**: The hardware address of the LANpress MP print server is shown on a sticker on the base of the device.

## Connecting to the LANpress MP print server

- 1. Start your Web Browser.
- 2. In the *Address* box, enter *HTTP://* followed by the IP Address of the LANpress MP print server.

e.g. http://192.168.0.21

- 3. You will then be prompted for the password. If no password has been set, just press ENTER.
- 4. Use the menu bar on the top of the screen to move about. Remember to save each screen before changing to a different screen.

## **Configuration Screens**

Depending on your models, the Web-based interface may look different to the images shown in the User's Manual.

The functions have not changed, and the description of each setting is correct. Only the appearances are different.

#### **AppleTalk**

AppleTalk zone 🔭		
Printer Object Type:	LaserWriter	
Communication Protocol:	Olascii	
	O Binary	
Retrieve Defaults S	ave Cancel	

Figure 16: AppleTalk Screen

AppleTalk zone	This determines which Apple systems can gain access to this printer.	
Printer Object Type	These are text fields, used to describe the printer driver used for each port. The LANpress MP print server is designed to work with LaserWriter (or 100% compatible) printers.	
Communication Protocol	Sets whether the port uses ASCII or Binary Communication Protocol The default is Binary.	

## NetBEUI

Workgroup
Response Time (0.1 secs): 0 (0255)
Abort Print Job if Error: O Yes O No
Save Cancel

#### Figure 17: NetBEUI Screen

Domain Name	Enter the designated work group to be serviced by the LANpress MP print server. This field is not case sensitive, so names with different case will be considered to be the same name.
Response Time	Set how fast jobs are sent to the printer. The default value of zero (0) delay should be increased only if your printer cannot cope with no delays.
Abort Job if Error	YES terminates a print job if a printing error occurs. NO (default) will try to continue but may cause print errors. If print errors occur, try setting this value to YES.

## **NetWare**

The NetWare screen is not available for model LANpress 2000 USB.

NetWare mode:	O Print Server Mode	
	C Remote Printer Mode	
Frame types:	☑ 802_2	
	☑ 802_3	
	SNAP	
	🗹 Ethernet II	
NetWare Printer	Server for parallel port 1:	
NetWare Printer Server for parallel port 2:		
	<b>N</b>	
NDS Tree Name	FAST	
NDS Context:	TAIWAN.SERVER	
Master File Serve	r: (Bindery Mode only)	
NetWare Passwi	ord:	
Job Notification: O Originating Workstation only		
Polling Queue Interval: 1 (1255)		
Save Cano	el	

Figure 18: NetWare Screen

General		
NetWare Mode	Select <i>Print Server</i> or <i>Remote Printer</i> , as appropriate. The default is <i>Print Server</i> .	
Frame Type	Select the frame types used by your network. (Ethernet 802.2, Ethernet 802.3, Ethernet SNAP, and Ethernet II) By default, all frame types are enabled.	
Remote Printer Mode		
Novell Printer Server for P1	NetWare print server to service the LANpress MP print server's parallel port 1.	
Novell Printer Server for P2	NetWare print server to service the LANpress MP print server's parallel port 2 (P2), if fitted.	
Print Server Mode		
NDS Tree Name (NDN mode only)	The File Server's NDS tree name. (root name)	
NDS Context (NDS Mode only)	Path to the NDS Context. This does not include the Context itself, and each OU should be separated by a period. e.g. department.company	

Master File Server (Bindery Mode only)	Name of the LANpress MP print server's master file server.	
NetWare Password	The password on the NetWare Server. The LANpress MP print server device needs this password to connect to the NetWare server.	
Job Notification	<ul> <li>The options are:</li> <li>Job notification at only the workstation where the print job originated.</li> <li>Job notification at all workstations that you have logged into.</li> </ul>	
Polling Queue Interval	Defines how often the LANpress MP print server will poll the queues to be serviced.	

## SNMP (Simple Network Management Protocol)

SysContact Jeff Bridges
SysLocation R305
Station No. 1 💌 Get Data
IP Address 203 70 212 211
Community Public
Access Read-only
Receiver No. 1 - Get Data
IP Address 203 70 212 211
Community Private
Enable with Severity level:
Save Cancel

#### Figure 19: SNMP Screen

SysContact	Text Field - Name of the contact person.	
SysLocation	Text Field - Location of the contact person.	
Management Stations		
Station No.	Select the Management station (14), and click the <i>Get Data</i> button to update the display for the selected item.	
IP Address	Enter the IP Address of the management station, which has the SNMP program installed.	

Community	This is a text field. Enter the name of the community.	
Access	Select the desired level of access.	
Trap Receivers		
Receiver No.	Select the Trap Receiver number (14), and click the <i>Get Data</i> button to update the display for the selected item.	
IP Address	Enter the IP Address of the Trap Receiver, which will be sent the Trap message.	
Community	This is a text field. Enter the name of the community.	
Enable	Check to enable; select the severity level. <b>Note:</b> Currently, all traps are level 1.	

## TCP/IP

IP Address: O DHCP Client		
Fixed IP Address:		
IP Address	192 168 0 1	
Subnet Mask	255,255,255,0	
Gateway Address		
Delay before reconnection attempt (secs) 2 (0255)		
Number of reconnection attempts [254] (0255)		
Retrieve Defaults Save Cancel		

#### Figure 20: TCP/IP Screen

IP Address	IP Address assigned to this device. If using dynamic IP Addresses (DHCP, BOOTP, rarp), this should be left at 0.0.0.0.
Subnet Mask (Network Mask)	If the Router (Gateway) Address is 0.0.0.0, the Subnet Mask should also be left at 0.0.0.0. If you have a router, enter the Subnet mask for the segment to which the LANpress MP print server is attached.
Gateway Address	If your network segment has a router or gateways, enter its IP Address here. Otherwise, leave the address as 0.0.0.0.
Connection	
Delay before reconnection attempts	Sets how long the LANpress MP print server should wait before retrying a TCP/IP connection which is lost. Allowable values are from 0 to 255 seconds, with 2 as the default.
Number of reconnection attempts	Set how many attempts at reconnection will be made. After that, the TCP/IP session will be terminated. Allowable values are from 0 to 255, with 254 as the default.

#### **Configure Server**

Print Server Name: AdminLaser
Device Password:
Verify Password:
Enable: 🔽 Appletalk 🗹 NetBEUI
Save Cancel

#### Figure 21: Configure Server Screen

Print Server Name	Change the default name if you wish. The new name must not contain any spaces or blanks.
Password	Enter the device password, and again in the <i>Verify</i> field. Once a password is entered, it is required in order to gain access and change the configuration.
Enable Protocols	Non-TCP/IP protocols (depend on the protocols supported by the model) may be disabled if they are not required on your LAN.

#### **Other Screens**

#### **Server Status**

This screen shows server system data and the current settings for all of the other screens. It is read-only; no data can be input on this screen.

#### **Printer Ports**

This screen displays the current status of each port. For each port, the following data is listed:

- **Connected Printer** the model name of the printer connected to the port, if the printer name is known. (If the printer is not bi-directional, this information is unavailable.)
- **Status** the current status of the printer (On-line, Off-line, Out of paper)
- Printing Information this will show either *Idle* or *Printing*.

#### **Logical Printers**

Logical Printers (ports) can be used under Unix or NetWare. For each Logical Printer, the following fields are available:

Logical Printer (Port)	Select the Logical Printer Port you wish to configure. (L1 to L3 or L1 to L8, depending on your model) Click the <i>Get Data</i> button to update the display with the current data for the selected logical printer.
Port	Select the Printer Port which the Logical printer will use.
Pre-string	The printer control string ( <b>in hex</b> ) to be sent to the printer before each print job. This string cannot exceed 15 characters.
Post String	The printer control string ( <b>in hex</b> ) to be sent to the printer after each print job. This string cannot exceed 15 characters.
Convert LF to CR+LF	If checked, LF (line feed) characters are changed to CR+LF (carriage return + line feed).

#### **Internet Printing**

See page 45 for details of this feature.

## Chapter 7

# **Special Features**



This chapter covers the special features of the LANpress MP print server.

## **Overview**

The LANpress MP print server has three (3) special features:

- LANpress MP print servers support IPP (Internet Printing Protocol).
- All models support the proprietary Internet Mail Printing system.
- SNMP (Simple Network Management Protocol) is supported by all models.

## Internet Printing Protocol (IPP)

IPP (Internet Printing Protocol) is a new standards-based system to allow remote printing from a PC to any accessible printer. Normally, the printer will be attached to a computer or other device which functions as an **IPP Server**.

For client PCs, it is necessary to install a compatible **IPP Client** program. The Client must also know the IP Address or URL or the IPP Server.



IPP support is available ONLY on the LANpress 2000 1P Direct and LANpress 2000 USB. Do NOT attempt to use IPP on other models.

#### **IPP Server Configuration**

The LANpress MP print server contains the necessary firmware to act as an **IPP Server**. No additional configuration is necessary. However, the following requirements must be met.

- The LANpress MP print server must have a valid IP Address. For printing via the Internet, the LANpress MP print server's IP Address must be external (allocated by your ISP), rather than an IP Address on your local LAN.
- Any Router, Gateway or Firewall linking your LAN to the Internet must NOT block the IPP protocol.
- You must advise clients of the correct URL or IP Address of the IPP Server. To use a URL rather than an IP Address, you need to register the domain name for the URL.
- Unless clients are using Windows 2000, you must provide your clients with the supplied IPP Client software. If it is not convenient to provide the CD-ROM, supply the IPP\_CLIENT.EXE file, located in the IPP folder.

#### IPP Client Setup - Windows 95/98/Me/NT 4.0/XP

The IPP Client Software can be installed on any of the following systems:

- Window 95/98/Me/2000/XP
- Windows NT 4.0

#### Installing from the CD-ROM

- 1. Insert the CD-ROM in your drive. If the program does not start automatically, run the SETUP program in the top-level folder.
- 2. Follow the prompts until you reach the Select Installation screen, and select IPP Client.
- 3. At the next screen, select the Install IPP Client option.
- 4. Click *Next*, and step though the remaining screens to complete the installation.

#### Installing using IPP\_CLIENT.EXE

- 1. Run this program to unzip the included files.
- 2. The IPP Setup program will then run.
- 3. Follow the prompts to complete the installation.

#### IPP Client Configuration (Windows 95/98/Me/2000/XP/NT 4.0)

1. Run the "Add IPP Port" program entry created by the installation. A screen like the following will be displayed.

Configure IPP Port	×
IPP Server IP Address (Intranet) or URL (Internet): 172.31.2.24 Select Device Port >> Parallel 1	Retry Interval
Port Name:         IPP_172.31.2.24_P1           Proxy Server         Proxy Server	Retry count 50 ÷ (times)
Access IPP Server via Proxy Server      Proxy Address      Port Number:	Driver Version: IPP 2.11
Save	Close

Figure 22: IPP Port

- 2. If Internet access from your location is via a Proxy Server, check *Access IPP Server via Proxy Server*, and enter details of your Proxy Server. (This will be the same as your Browser configuration.)
- 3. Enter the IP Address or URL of the IPP Server.
- 4. Click *Select Device Port* to view the available ports on the IPP Server, and select the appropriate port. A connection to the IPP Server will be established at this time.

5. Click *Save* to create the IPP port on your system. You will see a message confirming that the port has been created, then the following dialog:

🐔 AddPort		×
Created IPP Port:	IPP_172.31.2.24_P1	
Connected to Device:	SC0B5F03	
Туре:	3P100 BaseT (Bidirectional)	
Printer:	Lexmark Optra E LaserPrinter	
Select Printer to use this	Port:	
Acrobat PDFWriter 3.0 Distiller Assistant v3.0 HP LaserJet 2100 Series HP LaserJet 4 LPT1->14 HP LaserJet 4 Plus HP LaserJet 4L HP LaserJet 5/5M Post5		
	OK Can	cel

Figure 23: Select Printer for IPP Port

6. Either select an existing printer to use the new port, and click OK.

#### OR

Click the *Add New Printer* button to create a new printer to use the IPP port. This will start the *Add Printer* wizard. Follow the prompts to complete the process. Ensure that the new printer uses the IPP port.

Installation is now complete.

- To create additional IPP Ports, repeat the entire procedure.
- The Proxy Server and other options are set individually for each IPP Port.

#### **Changing the IPP Port Settings**

After the IPP port is created, you can reach the screen shown in Figure 22: IPP Port using the Windows *Port Settings* button:

- 1. Open the Printers folder (Start Settings Printers)
- 2. Right-click the IPP Printer, and select Properties.
- 3. Locate and click the *Port Settings* button (*Details* or *Port* tab, depending on your version of Windows).

There are 2 settings - *Retry Interval* and *Retry Count* - which can be adjusted if you have problems connecting to the IPP Server.

- **Retry Interval** sets the time interval (in seconds) between connection attempts. Increase this number if you have a poor connection, or the remote server is very busy.
- **Retry Count** sets how many connection attempts will be made. Increase this number if you have a poor connection, or the remote server is very busy.

#### **IPP Client Setup - Windows 2000/XP**

Windows 2000 has its own IPP Client, and there is no need to install the supplied IPP Client Software. To use Windows 2000's IPP Client with the LANpress MP print server, follow this procedure:

- 1. Start the Add Printer wizard.
- 2. Select *Network Printer*, and click "Next" to see the *Locate your Printer* screen, as shown below.

Locate Your Printer How do you want to locate your printer?	4
If you don't know the name of the printer, j that has features you want.	you can search for one in the right location
What do you want to do?	
C Find a printer in the Directory	
C Type the printer name, or click Next to	browse for a printer
Name:	
Connect to a printer on the Internet or	on your intranet
URL: http://11.11.0.32:631/ipp/P1	1

Figure 24: Windows 2000 - Locate your Printer

3. Select *Connect to a printer on the Internet or on your Intranet*, and enter the URL of the IPP Server as follows, where ip\_address represents the IP Address of the IPP Server, and 631 is the port number.

Port 1	<pre>ip_address:631/ipp/P1</pre>
Port 2 (if exists)	<pre>ip_address:631/ipp/P2</pre>
Port 3 (if exists)	<pre>ip_address:631/ipp/P3</pre>



These entries are case sensitive. They must be entered as shown, with "ipp" in lower case, and P1, P2 and P3 in UPPER case.

4. If the connection can be established, and the printer on that port is on-line, the following dialog will be displayed.



Figure 25: Windows 2000: No printer driver

- 5. Click "OK", and then select the printer manufacturer and model to match the printer connected to the port on the IPP Server.
- 6. Click "Next", and complete the Wizard. The IPP printer is now ready for use.

#### **Using IPP Printers**

The IPP Printer can be selected and used like any other Windows printer. If the IPP Server is not on your network, your Internet connection needs to be active.

If you wish to check the availability of the remote IPP Server, you can use the *Query IPP Printer* program installed with *Add IPP Port*.

An IPP Server may be unavailable for any of the following reasons:

- It is powered off.
- A printer problem has caused the IPP Server to cease responding, and a restart (reboot) is required.
- The Server's IP Address has changed.
- The Internet connection for the IPP Server is down.
- Network congestion causes the connection attempt to time out.

If using the supplied IPP Client software, there are 2 settings - *Retry Interval* and *Retry Count* - which can be adjusted if you have problems connecting to the IPP Server.

See the previous section Changing the IPP Port Settings for details.

### Internet Mail Printing

The Internet Mail Printing System allows users to print data to your printer across the Internet. Users send the Internet LANpress MP print server an E-Mail, with the print job normally sent as an attachment to the E-Mail. The LANpress MP print server will retrieve the E-Mail and print it.

#### **System Requirements**

#### Mail Server

- Accessibility. The Mail Server must be accessible by the intended clients or users. Normally, this means a permanent connection to the Internet.
- **Protocols.** The Mail Server must support the POP3 and SMTP protocols. The Internet Printing System uses these protocols and the most common E-Mail formatting standards:
  - MIME (Multipurpose Internet Mail Extensions)
  - Base64 Encoding (for mail attachments)

#### Internet LANpress MP print server

- **TCIP/IP Protocol.** The LAN must use the TCP/IP protocol.
- Mail Server Access. The LANpress MP print server must be able to access the Mail Server using a single IP address.
- Mail Account. The LANpress MP print server must have a Mail Account. Users print by sending an E-Mail to this mail account.

#### **User (Client) Requirements**

- Internet Connection. Either through a LAN, or dial-up.
- E-Mail address. This is used to notify the user that their print job has been done, or if there any problems.
- **Printer Driver.** Users must have a printer driver which matches the printer connected to the remote Internet LANpress MP print server.
- **Print Capture Software.** To print more than plain text, users require InterNet Printing Port software to capture the print job and convert it into an E-Mail attachment. The Internet Printing Port software is available for the following operating systems:
  - Microsoft Windows 95
  - Microsoft Windows NT 3.51 or later.

#### Internet Mail Printing Configuration

The LANpress MP print server must be configured with the data in the following table.

The supplied **MPAdmin** utility program, or the Web interface (on 100BaseT models) can be used to set the following entries on the TCP/IP screen.

Mail Server IP Address	The IP Address of the E-Mail Server used by the LANpress MP print server.
Mail Account	The name of the E-Mail Account used by the LANpress MP print server.
Mail Account Password	Enter the password for the above Mail Account here.
Check Mail Interval	Sets how often to check for mail. Values range from 0 to 65,535 minutes, with 0 meaning a continuous connection and 1 as the default.
Print Banner	If YES (default), a banner page is printed to identify the owner of the print job.
Redirect Mail Account	Jobs which can not be printed will be sent to this account. If blank, unprintable jobs will be discarded.
Default Printer Number	Printer number for all Internet print jobs. Only one port can be selected. Users on the LAN can also use this port.
Print every E-Mail	If ON, then all E-Mail received is printed. Otherwise, only E-Mail from the InterNet Printing Port will be printed.
Activate Response Mail	If YES, all print jobs receive an E-Mail response. If NO, only users who set this option in their InterNet Printing Port software receive an E-Mail.
Printer Model ID String	This text field identifies the printer used for Internet printing. This value is sent to remote users upon request.

#### **User Software**

The software provided for remote users (InterNet Printing Port) should be installed by everyone intending to use Internet printing. Otherwise, remote users can print correctly only if:

- They send an E-Mail directly to the LANpress MP print server Mail Account, using their normal E-Mail application.
- The E-Mail contains plain text only.
- The Internet LANpress MP print server is configured with Print every E-Mail ON.

Installation of the InterNet Printing Port software will create a new printer port. After attaching the correct printer to this port, users can print to the Internet Printer using any Windows application.

#### Installation - User Software

- 1. Run the InterNet Printing Port installation program SETUP.EXE
- 2. Default values for the installation are:
  - **Directory** C:\Program Files\Internet\_Printer
  - Start Menu folder InterNet Printing Port Driver
- 3. You will then see the Configure Port screen, as shown in the following screenshot.

erNet Printing Port Driver Co	nfiguration (ver 1.	.0)
Port Name :	WAN	
Remote Printer		
E-mail address		
PrintServer@customer.com		
-Your E-mail information		
Mail Server Name or IP Add	ress	
pop3serv.mycompany.com		
Your Internet E-mail address		mpany.com)
myname@mycompany.com	1	
Retry Interval: 30	Sec.	ОК
Reply Notification E-mail		Cancel
		Help

Figure 26: InterNet Printer Port

4. The following data must be provided.

<b>Port Name</b> Enter a descriptive name (e.g. "WAN") for the new printer port.	i (C)
--	-------

Remote Printer E-mail Address	The E-Mail address for the Internet printer. Your print jobs will be sent to this E-Mail address.	
Mail Server Name or IP Address	This is the name or IP Address of your Mail Server. If you are on a LAN, ask the LAN Administrator. If using a dial-up connection, use the data provided by your ISP.	
Your Internet E-mail Address	The normal address that people use to send you E-mail.	
Retry Interval (Seconds)	If unable to connect to the E-Mail server, retry after this time period (1 to 255 seconds, 30 is usually OK).	
Reply Notification Mail	Check to receive an E-Mail when your print job has been processed.	

5. On completion, a new printer port will have been created.

#### **Using the new Port**

The Windows Control Panel is used to connect the correct printer to the InterNet Printing Port. In Windows 95/NT, the procedure is:

1. Select the Printer which matches the remote printer, then choose *Properties*, as shown in the example below.

HP LaserJet 4 Properties	? ×
General Details Paper Graphics Fonts D	evice Options
HP LaserJet 4	
Print to the following port: WAN (InterNet Printer)	Add Port
Print using the following driver:	 
HP LaserJet 4 Plus	• Ne <u>w</u> Driver
<u>C</u> apture Printer Port E	E <u>n</u> d Capture

Figure 27: InterNet Printer Properties

- 2. Select the new port WAN (InterNet Printer) in the example as the port for this printer.
  - If you do not have the correct printer driver, or you wish to create another printer using an existing driver, use the Windows *Add Printer* facility.
  - Using the Windows *Port Settings* or *Configure Port* facility will reveal the same *Configure Port* screen shown in *Figure 26: InterNet Printer Port* on page 47.
  - If you wish to print to multiple Internet Printers, use the Windows *Add Port* facility to add a new InterNet Printer port. Ensure that the correct data is entered in each port, and that each port has a unique name.

#### **Checking the Printer Driver**

To make sure that the correct printer driver for the remote printer is installed on your system, you can use the InterNet Printing Port to send an E-Mail to the Internet Printer. The procedure is as follows:

- 1. Connect your default printer to the InterNet Printing Port.
- 2. Check that "Reply Notification Mail" in the InterNet Printing Port is ON.
- 3. From Notepad or another text editor, print a short message (e.g. "This is a test print") to the Internet Printer.

You will receive a reply E-Mail containing the "Printer ID" which will identify the printer attached to the LANpress MP print server. If this does not match the printer driver you are using, install the correct printer driver.

## Printing through the Internet

- 1. Create or open the document you wish to print.
- 2. Select the Printer connected to the InterNet Printing Port.
- If you do not have a permanent Internet connection, establish a connection now. (Note: The InterNet Printing Port will NOT establish a dial-up connection, but it will send the E-Mail the next time you are connected.)
- 4. Print the document.
- 5. The InterNet Printing Port will generate an E-Mail and send it to the remote printer. The document will be encoded and sent as an attachment to the E-Mail. You will see a progress screen similar to the example below:

Fro	m port <w< th=""><th>AN&gt; Sending To PrintServer</th></w<>	AN> Sending To PrintServer
	Date : 09	9:32:22 09/22/97
	Status : S	Sending
	From :	
	FIUM.	yourname@supplier.com
	To :	PrintServer@customer.com
		,
		Abort Printing Job
		1

Figure 28 InterNet Printing Progress

- 6. Close the Internet connection if you opened it in Step 3.
- 7. If the "Notify after print job" option is set, you will receive an E-Mail when your job is printed.

#### **Canceling a Print Job**

Users cannot cancel a Print Job once it has been sent, but Print Jobs can be canceled at the LANpress MP print server. In **MPAdmin**, the *Control - Abort Mail Print Job* menu option can be used to cancel a print job which has already started printing.

#### **SNMP**

The LANpress MP print server supports SNMP (Simple Network Management Protocol). This allows network supervisors to monitor and control the LANpress MP print server using network management platforms such as HP OpenView, IBM SystemView, etc.

The appropriate MIB file must be imported into your SNMP management program using the *Import-Compile* command. Check your management program for details on this procedure. The MIB files are provided in the Mib folder on the CD-ROM, as follows:

Mib1p.mib	Single port models.
Mib2p.mib	Models with 2 parallel ports
Mib3p.mib	Models with 3 parallel ports

#### Configuring the LANpress MP print server for SNMP

Before using a SNMP Management station to manage the LANpress MP print server, the following settings should be assigned to it, in addition to the IP Address, Gateway Address, and Subnet Mask.

#### **SNMP Settings**

SysContact	Text Field - Name of the contact person.
SysLocation	Text Field - Location of the contact person.
Management Station IP Address(s)	Up to 4 Management Stations can be entered.
Trap Receiving IP Address(s)	Up to 4 Trap Receiving Stations can be entered.

#### **Management Station Settings**

For each Management Station, the following fields are available:

Access Permission	Options are: Read Only Read/Write Not Accessible
<b>Community String</b>	Leaving this blank will disable management by this station.

#### **Trap Receiving Station Settings**

For each Trap Receiving Station, the following fields are available:

<b>Community String</b>	Leaving this blank will disable management by this station.
Trap Enable	Use this option to Enable/Disable Trap Receiving by this station.
Trap Severity	In this version, all traps are level 1.

# Chapter 8 Troubleshooting



*This chapter describes some problem situations, which may arise, and the solutions to them.* 

#### **Overview**

If you encounter printing difficulties, please refer to the appropriate section.

If, after following the advice in these documents, the LANpress MP print server still does not function properly, please contact your dealer for further advice.

## Hardware & LAN Problems

Problem No. 1	All the LANpress MP print server's LEDs are off.
Solution No. 1	Check the power supply or power connection.
Problem No. 2	LANpress MP print server's status light continuously stays lit.
Solution No. 2	Reset LANpress MP print server by unplugging the power supply and plugging it back in.
Problem No. 3	LANpress MP print server's status light and power light stay on continuously and do not turn off.
Solution No. 3	Reset the LANpress MP print server by unplugging the power supply or by pushing the reset push button, if fitted.
Problem No. 4	The LANpress MP print server unit can not be found on the LAN, so configuration is not possible.
Solution No. 4	<ul> <li>If using 10/100BaseT:</li> <li>Check the Hub. The link LED for the port to which the LANpress MP print server is connected should be ON. If it is Off, there is a problem in the network cable.</li> <li>On the LANpress MP print server, check the LED(s) next to the connector. If the LED is not ON (or neither LED is On, if there are 2), the network connection is not working. Check the Ethernet cable and connectors. If they seem OK, set the DIP Switches of the LANpress MP print server to match your LAN environment.</li> </ul>
	<ul> <li>If using TCP/IP:</li> <li>Ensure that there are no routers between the LANpress MP print server and the PC used for configuration.</li> <li>Ensure that the PC used for configuration has the TCP/IP network protocol installed. Test its network connection by seeing if you can locate other LAN devices from the PC. (e.g. Use <i>Network Neighborhood</i> and try to browser the network.)</li> </ul>
Problem No. 5	I am using DHCP, and getting an IP Address conflict involving the

LANpress MP print server.Solution No. 5If the LANpress MP print server is left on, but the DHCP server is<br/>turned off, then the LANpress MP print server will retain its IP<br/>Address without the DHCP Server being aware of it. Simply reset the<br/>LANpress MP print server so it will obtain a new IP Address.<br/>This problem would also arise if you assigned static IP Address, which<br/>is within the range used by the DHCP server. If so, use another address<br/>which is NOT within the range used by the DHCP server.

## AppleTalk (Macintosh)

Problem No. 1	Why do I get an incorrect printout?
Solution No. 1	<ul> <li>Some possible reasons are:</li> <li>You may have chosen Binary encoding to print the file. Try to use ASCII encoding.</li> <li>Some of the fonts, which are in your print file may not be supported by the printer. Try selecting LaserWriter 7 instead of LaserWriter 8.</li> </ul>
Problem No. 2	Can't find the LANpress MP print server's name in the Chooser.
Solution No. 2	<ol> <li>Try the following:</li> <li>Make sure that AppleTalk is on (the button next to Active is highlighted in the Chooser).</li> <li>Make sure the printer has been on and in the READY state for a few minutes.</li> <li>Make sure the printer has not been renamed since its last appearance in the Chooser.</li> <li>If the printer resides on a network with multiple zones, make sure the correct zone is selected from the AppleTalk Zones box in the Chooser.</li> </ol>
Problem No. 3	My document didn't print to the right printer.
Solution No. 3	<ul> <li>Check the following:</li> <li>Another LANpress MP print server with the same name may have received your print job. Use the PSTOOL to reconfigure your LANpress MP print server name and ensure all LANpress MP print servers have unique names.</li> <li>Make sure your application output encode is set to ASCII. If not, change it to ASCII.</li> </ul>
Problem No. 4	My file doesn't print with the correct fonts.
Solution No. 4	Try changing your printer driver to LaserWriter 7.
Problem No. 5	My EPS file doesn't print with the correct fonts.
Solution No. 5	This is a problem that occurs in some application programs. Try downloading the fonts contained in the EPS file before printing the saved EPS file.

Problem No. 6	I can't select the "Remaining from:" item in the print dialog box.	
Solution No. 6	If you have selected the Layout value, "2 Up", or "4 Up", you cannot access the <i>Remaining from</i> item. Choose other selections.	
Problem No. 7	A cover page prints either on the first or the last page of the document.	
Solution No. 7	<ul> <li>Select one of these solutions:</li> <li>Turn the cover page feature off.</li> <li>Insert extra page breaks in your document to avoid the cover page printing on the first or last page of your document.</li> <li>Install the Apple LaserWriter 7 driver. You are having trouble printing with the Apple LaserWriter 8 driver.</li> </ul>	
Problem No. 8	Why do I have trouble printing with the LaserWriter 8?	
Solution No. 8	Your application software may not be compatible with the LaserWriter 8 driver or your system may not meet the requirements of the LaserWriter 8 driver. Use the Apple LaserWriter 7 driver instead.	
Problem No. 9	The colors on my printed output do not match the colors on my computer screen.	
Solution No. 9	<ul> <li>When the printer receives a color file, it tries to match the printed output color to the screen color. Sometimes the printer cannot match up the colors as closely as wanted. To alleviate this problem, perform the following steps:</li> <li>Choose "Calibrated Color/Grayscale" in the <i>Print</i> pop-up menu in the <i>Print Options</i> dialog box. The printer will make adjustments to match the colors.</li> <li>Check your monitor to make sure all settings (for example, brightness) are adjusted correctly.</li> </ul>	
Problem No. 10	When I send a print job, I get a PostScript Command error or no print out.	
Solution No. 10	Check the communication protocols. The computer, LANpress MP print server and printer must all be configured to the same communication protocol.(either Binary or ASCII).	
	To configure your system:	
	1. Choose which protocol you are going to use. You should check your printer; it may not give you a choice.	
	2. Set your printer to the correct protocol.	
	3. Use the computer's <i>Print</i> submenu to configure your computer to use the protocol you have chosen.	
	4. Configure the LANpress MP print server to use the same protocol as the printer and computer.	

## Novell NetWare

Problem No. 1	My LANpress MP print server cannot print the jobs sent to the print queue.
Solution No. 1	Try the following:
	1. Check if the printer attached to the LANpress MP print server is on- line.
	2. Check if your LANpress MP print server is logged into the file server (See Problem 2 below.).
	3. Check the current status of the queues used by the LANpress MP print server, and ensure the queues are active.
	<ul> <li>4. Check if the NetWare printer number is correct.</li> <li>0 = parallel port 1 of the LANpress MP print server.</li> <li>1 = parallel port 2 of the LANpress MP print server.</li> <li>2 = parallel port 3.</li> </ul>
	<ul> <li>5. Check to see if the LANpress MP print server is a static queue server to the queue.</li> <li>Locate the print server Object, and check the <i>Queues Serviced by Printer</i>. Ensure that the correct queues are on the list.</li> </ul>
	6. The total number of queues to be serviced may be over the limit of 56. If so, reduce the number of queues.
Problem No. 2	My LANpress MP print server is configured as a Novell Print Server, and cannot log in to a File Server.
Solution No. 2	The following steps may solve this problem:
	1. Check the Novell file server's name. If it is over 20 characters long, rename it using no more than 20 characters.
	2. Check that the LANpress MP print server's configuration data, especially the password, is correct.
	3. Check the NetWare server. If using Bindery mode, check the master file server to see if the login status of the LANpress MP print server is <i>Ready</i> . If it is not, check the error message and perform the required corrective action.
	4. If the LANpress MP print server is servicing more than one file server, check to see that all required file servers are in the list of "File Servers To Be Serviced". If not, insert the required file server name to the list.

## Windows Printing Problems

Problem No. 1	When I tried to install the Printing software for Peer-to-Peer printing, I received an error message and the installation was aborted.	
Solution No. 1	<ul> <li>This may be caused by an existing installation of the printer port software. Before attempting another installation:</li> <li>Remove the existing installation</li> <li>Restart your PC</li> <li>To remove an existing printer port installation:</li> <li>Open <i>Start - Settings - Control Panel - Add/Remove Programs</i></li> <li>Look for an entry with a name like "Shared Port", "Shared Printer Port", "Print Server Driver" or "Print Server Port".</li> </ul>	
	3. Select this item, click "Add/Remove", and confirm the deletion.	
Problem No. 2	On Windows 95, I installed the Print Port Driver for Peer-to-Peer Printing, but when I selected a port on a LANpress MP print server and clicked "Add", the printer was not installed.	
Solution No. 2	<ul> <li>Try installing the Printer using the standard Windows tools, as follows:</li> <li>Start the <i>Add Printer</i> Wizard.</li> <li>Select <i>Network Printer</i> when prompted "How is the printer attached to your Computer?", and click Next.</li> <li>When prompted for the Network Path or Queue, enter a dummy value such as shown below. (Do NOT select <i>Yes</i> for "Do you print for MS-DOS programs?")</li> <li>Add Printer Wizard <ul> <li>Type the network path or the queue name of your printer. If you don't know its name, click Browse to view available network path or queue name:</li> <li>Network path or queue name:</li> <li>Do you print from MS-DDS-based programs?</li> </ul> </li> </ul>	

4. The printer wizard will display a message stating that "The Network Printer is off-line". This is OK. Continue the Add Printer Wizard until finished.

< <u>B</u>ack

Next >

Cancel

⊙ <u>Y</u>es ⊙ <u>N</u>o

- 5. Go to the Printers folder (*Control Panel-Printers*). The printer icon will be grayed out indicating the printer is not ready.
- 6. Right-click the Printer, and select *Properties*. Then select the *Details* tab, as shown below.

📴 Printers	
<u>_Eile E</u> dit <u>V</u> iev	v <u>H</u> elp
	HP LaserJet 5P/5MP PostScript Properties
Add Printer	Fonts Device Options PostScript
	General Details Paper Graphics
HP LaserJet 5P/5MP	HP LaserJet 5P/5MP PostScript
	Print to the following port:
1 object(s) selec	M123 Add Port
1.00000(0)00000	Print using the following driver:
	HP LaserJet 5P/5MP PostScript   New Driver
	Capture Printer Port End Capture
	- Timeout settings
	Not selected: 15 seconds
	Transmission <u>r</u> etry: 45 seconds
	Spool Settings Port Settings
	OK Cancel Apply

7. Click the *Add Port* button. On the resulting screen, select *Other*, then *Printer Server*, as the port to add, as shown below.

<u>N</u> etwork	
Specify the network path to	the printer:
	<u>B</u> rowse
<u>O</u> ther	
Click the type of port you wa	int to add:
Local Port	
PDF Port PrintServer	

8. Click OK to see the *Print Port Configuration* screen, as shown below.

Port	Retry Interval
Device Name: SC300014 Brow	vse 50 ÷
Select Device Port >> Parallel 1	(secs)
Port Name: SC300014_P1	Driver Version
	NetBEUI 2.00
Banner	
Enable Banner PostScript	OK
User Name:	Cancel

- 9. Click the *Browse Device* button, select the desired LANpress MP print server, and click OK.
- 10. Click OK to return to the Printers folders, and right-click on the Printer. Ensure that the *Work off-line* option is NOT checked.

📴 Printers		
<u>F</u> ile <u>E</u> dit ⊻	iew <u>H</u> elp	
	<u>O</u> pen	
Add Printer	P <u>a</u> use Printing Purge Print Jobs Work Offline ✔ Set As De <u>f</u> ault	
5P/5MP PostScript	Create <u>S</u> hortcut <u>D</u> elete Rena <u>m</u> e	
Opens the sele	P <u>r</u> operties	li.

The Printer should no longer be grayed out, and is ready for use.

Problem No. 3	I connected and configured a WPS (Windows Printing System) printer as described, but I can't get the print job to print.	
Solution No. 3	Printer drivers for WPS printers poll the printer before sending print data. Since the printer is networked, the printer is not found and no dat is sent. The solution is to add your printer as a network printer as described in Solution 1 above.	
	<b>Note:</b> The screens shown in Solution 1 are from Windows 95. Other versions of Windows may look slightly different, but the process is identical. If using Window NT or 2000, do NOT enable Sharing for the printer.	
Problem No. 4	When printing from some software applications such as Power Point, it takes a long time and the print out is incorrect.	
Solution No. 4	The problem is due to the printer, which is being configured to <b>Start printing after the first page is spooled</b> . To change this setting:	
	• Go to <i>Control Panel - Printers</i> and click on your printer.	
	• Then select <i>File - Properties - Details</i> .	
	• When the Details screen appears, click the <i>Spool Settings</i> button.	
	• When the Spool Settings dialogue box appears, choose <i>Start</i>	

printing after last page is spooled and click OK.

Problem No. 5	A printing device connected to the LANpress MP print server port cannot print or prints garbage.
Solution No. 5	<ul> <li>Check the following:</li> <li>Cable connection between LANpress MP print server and printer.</li> <li>Printer driver in the application program or Windows matches the printer.</li> </ul>
Problem No. 6	The <i>Configuration</i> button on the <i>Printer Status</i> screen in MPAdmin is grayed out, even though my printer is bi-directional.
Solution No. 6	The button is unavailable if the printer is busy. You must wait until the printer is idle.
Problem No. 7	When I send a print job, cannot print or prints garbage.
Solution No. 7	The problem may be due to the printer, if the printer you used is an old model with low speed, the following steps may solve this problem:
	Try the following:
	• Open the MPAdmin Utility.
	• Click the <i>Printer Status</i> icon.
	• Change the Printer Type setting to <i>Low Speed</i> or set the Handshake Signal setting to <i>Ack &amp; Busy</i> .

# Appendix A Specifications



## **General Specifications**

LANpress 3P/100		
External Power Adapter	12V DC	
LEDs	3	
Parallel Port	Three Centronic female DB-25 connectors	
Ethernet Connector	10/100BaseT	
FCC / CE	Class B	
LANpress 2000 1P Direct		
External Power Adapter	9V DC	
LEDs	4	
Parallel Port	1 Male DB-36 connector	
Ethernet Connector	10/100BaseT	
FCC / CE	Class B	
LANpress 2000 USB		
External Power Adapter	9V DC	
LEDs	2	
USB Port (1.1)	1	
Ethernet Connectors	10/100BaseT	
FCC / CE	Class B	

Environmental Specifications (all Models)		
Operating Temperature	$0 \sim 40^{\circ} C$	
Storage Temperature	$-10 \sim 70^{\circ}C$	
Shipping Temperature	$-40 \sim 70^{\circ}C$	
Operating Humidity	$10 \sim 80\%$	
Storage Humidity	$5 \sim 90\%$	
Shipping Humidity	5~100%	

### **Parallel Port Pin Assignments**

Direct Attach Models				
Pin	Signal Name	Source		
1	-Strobe	Н		
2	+Data 1	Bi-Di*		
3	+Data 2	Bi-Di*		
4	+Data 3	Bi-Di*		
5	+Data 4	Bi-Di*		
6	+Data 5	Bi-Di*		
7	+Data 6	Bi-Di*		
8	+Data 7	Bi-Di*		
9	+Data 8	Bi-Di*		
10	- ACK	Р		
11	+ Busy	Р		
12	+ Paper Error	Р		
13	+ Select	Р		
14	-Auto Feed	Н		
15	Not Defined			
16	Logic GND			
17	Chassis GND			
18	Peripheral Logic High	Р		
19-30	GND			
31	-Init	Н		
32	-Fault	Р		
33-35	Not Defined			
36	-SelectIn	Н		

\* Data signals will be driven by some but not all peripheral devices.

Other Models			
Pin	Signal Name	Direction	
1	- Strobe	To printer	
2	+Data 0	To printer	
3	+Data 1	To printer	
4	+Data 2	To printer	
5	+Data 3	To printer	
6	+Data 4	To printer	
7	+Data 5	To printer	
8	+Data 6	To printer	
9	+Data 7	To printer	
10	- ACK	To Server	
11	+ Busy	To Server	
12	+ Paper End	To Server	
13	+ Select	To Server	
14	- Auto Feed	To printer	
15	- Error	To Server	
16	- Init	To printer	
17	- Select In	To printer	
18-25	GND	Ground	

## **Protocol Support**

Model	TCP/IP	NetBeui	Netware IPX/SPX	AppleTalk
LANpress 3P/100		$\checkmark$	$\checkmark$	$\checkmark$
LANpress 2000 1P Direct	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
LANpress 2000 USB	$\checkmark$	$\checkmark$		

## Feature Support

Model	HTTP Setup	E-mail Printing	IPP Support	SNMP Support	AutolP	FTP/Telnet Support
LANpress 3P/100	$\checkmark$	$\checkmark$		$\checkmark$		
LANpress 2000 1P Direct	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
LANpress 2000 USB	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	

### **Regulatory** Approvals

#### LANpress 3P/100, LANpress 2000 1P Direct, LANpress 2000 USB

#### FCC Statement

This equipment generates, uses, and can radiate radio frequency energy. It has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a domestic environment.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

#### **CE Marking Warning**

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## Appendix B

# **Network Server Configuration**



## Windows NT Server

#### **Preparing for TCP/IP Printing**

If using Windows NT 3.51 or Windows NT 4.0, Microsoft *TCP/IP Printing Support* must be installed.

- If it is already installed, proceed to *Adding a TCP/IP Remote Printer*.
- Otherwise, the procedure to install TCP/IP printing support is as follows.

#### Windows NT 3.51

- 1. Start the *Network* option in Control Panel. When the Network Settings dialog box appears, click the *Add Software* button to display the *Add Network Software* dialog box.
- 2. Select *TCP/IP Protocol And Related Components* in the Network Software list box, and then click the *Continue* button.
- 3. In the *Windows NT TCP/IP Installation Options* dialog box, check the *TCP/IP Network Printing Support* option.
- 4. Click the *OK* button. Windows NT Setup will display a message asking for the full path to the Windows NT distribution files. Provide the appropriate location and click the *Continue* button. All necessary files will be copied to your hard disk.
- 5. If you did not check the *Enable Automatic DHCP Configuration* option in the *Windows NT TCP/IP Installation Options* dialog box, you must complete all the required TCP/IP configuration procedures manually.
- 6. After you finish configuring TCP/IP, the *Network Settings* dialog box will reappear, click the *Close* button and then restart your computer for the changes to take effect.

#### Windows NT 4.0

- 1. Go to Start-Settings-Control Panel-Network.
- 2. Click the *Service* option and ensure that **Microsoft TCP/IP Printing** is enabled. If it is not enabled, select the *Add* option and enable it as usual.
- 3. If you added services in step 2, reboot the computer for the changes to take affect.

#### Adding a TCP/IP Remote Printer

#### Windows 3.51

- 1. From the *Printer* menu in **Print Manager**, select *Create Printer*.
- 2. In the resulting dialog box, enter data as follows:

Printer Name	Enter a name (up to 32 characters). This name appears in the title bar of the printer window.
Driver	Select the appropriate driver for the attached printer.
Description	Enter a printer description for other network users to reference.
Print To	Select Other.

- 3. A *Print Destinations* dialog box will appear after selecting *Other*. In the *Available Print Monitor* list, select *LPR Port*, then *OK*.
- 4. An Add LPR compatible printer window will appear. Enter data in the fields as follows:

Name Or Address Of Host Providing LPD	Enter the IP address of the LANpress MP print server.
Name Of Printer On That Machine	Enter the appropriate logical printer number. (e.g. L1)

- 5. When the *Create Printer* dialog box reappears, check the *Share This Printer On The Network* option.
- 6. The resource name shown in the *Share Name* box can be changed if you wish. In the *Location* box, you can enter information concerning the printer location. Network users will see this information when browsing to find this printer.
- 7. Complete any other configuration information in the *Create Printer* dialog box, save and exit.

Client PCs can now be configured as described in Chapter 4 - Client Configuration.

#### Windows NT 4.0

- 1. Go to Start-Settings-Printer and invoke the Add Printer wizard.
- 2. When prompted with This printer will be managed by, select **My Computer** and click Next.
- 3. Select Add Port..., then select LPR Port and click New Port.
- 4. In the *Name of Address of server providing lpd*: Dialog box, enter the LANpress MP print server's IP address.
- 5. In the Name of printer or print queue on that server dialog box, enter the appropriate logical printer number (L1..L3, or L1..L8, depending on the model) as previously configured on the LANpress MP print server.
- 6. Click OK. When returned to the Printer Ports window, simply select *Close* and then install your printer driver as usual.
- 7. When prompted whether or not the printer will be shared, select the Sharing radio button.
- 8. In the *Shared* dialog box, enter the shared printer name. (The shared name is how other users will see this printer.) Click OK to save and exit.

Client PCs can now be configured as described in *Chapter 4 - Client Configuration*.

#### Windows 2000 Server

- 1. Start the *Add Printer* Wizard, select *Network Printer*, then click *Next* to browse for the LANpress MP print server.
- 2. Locate and double-click the LANpress MP print server, select the desired port, and click *Next*.

The following message will be displayed:

Connect to Printer				
⚠	The server on which the 'Print Server Null Driver' printer resides does not have the correct printer driver installed. If you want to install the driver on your local computer, click OK.			
	Cancel			

Figure 29: Windows 2000 Message

- 3. Click "OK", and select the correct Manufacturer and Model for this printer.
- 4. Follow the prompts to complete the installation.
- 5. In the Printers folder, right-click the new printer, and select Sharing.
  - Select "Shared As:" and enter an appropriate name for this printer. Users will see this name when browsing for the printer during installation.
  - If desired, click "Additional Drivers" and install printer drivers for other versions of Windows, such as Windows 98. This will assist users during the installation process.
- 6. Click OK to close this Window. Configuration is now complete.

Client PCs can now be configured as described in Chapter 4 - Client Configuration.

## Novell NetWare

The LANpress MP print server fully supports both Bindery and NDS Novell systems.

With either Bindery or NDS, two (2) NetWare operating modes are possible -Print Server and *Remote Printer*. Print Server mode is recommended.

Novell Distributed Printing Services (NDPS) under NetWare 5 is also supported.

#### **Configuration Methods (Bindery or NDS)**

The following configuration methods are available. In each case, you must be logged into the required NetWare Server with ADMIN rights.

Also, if using Windows, Novell's **Client32** should be installed on your PC. Without Client32, only limited configuration changes can be made on the NetWare Server.

#### MPAdmin

For more control and flexibility, or to use **NetWare Remote Printer Mode**, you can use the supplied MPAdmin management utility. Provided you have Novell's *Client 32* installed, MPAdmin will allow you to configure the NetWare Server as well as the LANpress MP print server.

- MPAdmin is installed by the *Administrator* menu option on the CD-ROM.
- See Chapter 5 for general information on using MPAdmin.
- The **NetWare Manual** (in the Manual\NetWare folder on the CD-ROM) contains detailed information on using MPAdmin with NetWare Servers.

#### **Other Method**

If you are unable to use Windows-based programs for configuration, the following method is available to configure the LANpress MP print server:

- Quickset Command-line DOC program, intended only to configure the LANpress MP print server for use with NetWare V2, 3 and 4. This program also has a limited ability to configure the NetWare Server itself.
- The program is provided on the CD-ROM, in the *Utility* folder.
- The documentation for the program is provided in sub-folders of the *Manual* folder on the CD-ROM.

#### **Configuration Data**

The LANpress MP print server requires the following "General" data, and the data for the mode (*Print Server* or *Remote Printer*) you are using.

General					
Device Name	The device name (Default Server Name) is shown on a sticker on the base of the device. Change this if you wish. The new name MUST NOT exceed 19 characters, nor contain any spaces.				
Device Password	Default is NULL (no password).				
NetWare Mode	Print Server or Remote Printer.				
Frame Type	Select the frame types used by your network. (Ethernet 802.2, Ethernet 802.3, Ethernet SNAP, and Ethernet II) By default, all frame types are enabled.				
Novell Remote Printer Mode					
Novell Printer Server for P1	NetWare print server to service the LANpress MP print server's parallel port 1.				
Novell Printer Server for P2, P3 (if exist)	NetWare Print Server to service the LANpress MP print server's parallel port 2 (P2), parallel port 3 (P3), if these port exist.				
Novell Print Server Mode					
NDS Tree Name	Not applicable. (NetWare NDS mode only)				
Print Server NDS Context	Not applicable. (NetWare NDS mode only)				
Master File Server (Bindery mode only)	Name of the LANpress MP print server's master file server.				
Polling Queue Interval	Defines how often the LANpress MP print server will poll the queues to be serviced.				

Job Notification by Connection ID	Set to Yes to receive a job notification at only the workstation where the print job originated, <i>No</i> to receive a job notification at all workstations that you have logged on.
NetWare Password	The password on the NetWare Server. The LANpress MP print server device needs this password to connect to the NetWare Server.

### Setup for NDPS (NetWare 5)

#### Overview

- The LANpress MP print server must be configured as a valid device on your TCP/IP network.
- To use NDPS (Novell Distributed Printing Services), the Novell server must be running Novell NetWare 5, and the PCs (clients) must be running IntranetWare Client V2.2. or later.

The following procedure is designed to enable *Public Access Printing* under NDPS. *Public Access Printing* allows anybody on the network to access the printer.

#### **Creating an NDPS Manager Object**

If an NDPS Manager Object already exists, skip this procedure and proceed to *Creating an NDPS Printer Agent*.

- 1. Login to NetWare 5.0 Server as Admin and start the NetWare Administrator program Nwadmn32.exe.
- 2. Select the container on NetWare Administrator where you want the NDPS Manager object to reside. (e.g. TeSupp)
- 3. Select Create Object from the menu bar to view the New Object dialog.
- 4. Select *NDPS Manager* as the object to create. The *Create NDPS Manager Object* window shown below will appear.

NDPS Manager <u>N</u> ame:	<u>C</u> reate
SerMGR	Cancel
Resident Server:	Help
TECH_50.TeSupp	
Database Volume:	
TECH_50_SYS.TeSupp	
After Creating the NDPS Manager Object	
Define Additional Properties	
Create Another NDPS Manager Object	

Figure 30: Create NDPS Manager Object

- 5. Type a name in the NDPS Manager Name.(e.g. SerMGR in Figure 1 above)
- 6. Browse the Resident Server and select where you want the NDPS Manager object to be assigned. (e.g. TECH\_50.TeSupp in figure 1 above)

- 7. Browse the Database Volume and select where you want the NDPS Manager database to be assigned. (e.g. TECH\_50\_SYS.TeSupp in figure 1 above)
- 8. Click *Create*. The new NDPS Manager will appear in the main browser window.
  - To start the NDPS Manager in future, enter the following command at the console: LOAD NDPSM then select the NDPS Manager object.
  - To start the NDPS Manager whenever you bring up the server, add a command like the following to your server's AUTOEXEC.NCF file: LOAD NDPSM SerMGR.TeSupp
     The last item is the name of the NDPS Manager object you wish to load.
- 9. After creating an NDPS Manager, you can create NDPS printers by using NetWare Administrator, as explained below.

#### **Creating an NDPS Printer Agent**

To create Public Access Printers using the NDPS Manager Object in NetWare Administrator, follow this procedure:

- 1. Start the NDPS Manager object you will be using to control the Printer Agent.
- 2. At the Identification page, click the Printer Agent List.
- 3. Click New to see the Create Printer Agent window, as shown below.

SerPrinter	
	Cancel
IDPS Manager Name:	
SerMGR.TeSupp	
ateway Types:	
Hewlett-Packard IP/IPX Printer Gateway Novell Printer Gateway	
Kerox Printer Gateway	

Figure 31: Create Printer Agent

- 4. Enter the desired name for the *Printer Agent (PA) Name*.
- 5. Normally, the NDPS Manager will be the NDPS Manger object you are using.
- 6. Select *Novell Printer Gateway* in the *Gateway Type*. (see figure2 above)
- 7. Click *OK* and then select the available printer.
- 8. Select *Remote (LPR on IP)* in the *Connection Type*.
- 9. Click Next to see the following Configure Port Handler screen.

Configure Port Handler for Printer Agent "SerPrinter".	×
192 . 168 . 0 . 3	
C Host Name	
Printer Name	_
	e: : 1
Cancel     Help     < Back     Next >	<u>F</u> inish

Figure 32 Configure Port Handler

- 10. In the *Host address IP* field, enter the IP Address previously assigned to the LANpress MP print server device.
- 11. In the *Printer Name* field, enter the Logical Port name on the LANpress MP print server. (e.g.: L1)

**Note**: For LANpress MP print servers with one parallel port, the logical ports are named L1, L2 and L3. For devices with three parallel ports, the logical ports are named L1 to L8.

- 12. Click *Finish*, then select appropriate drivers for Windows 3.1, Windows 95/98 etc as required.
- 13. The new Printer Agent will now appear in the Printer Agent List window.

Repeat this procedure for any other ports on the LANpress MP print server, or for any other logical printers you wish to use.

Client PCs can now be configured as described in *Chapter 4 - Client Configuration*.

## **Unix Systems**

Your LANpress MP print server can be configured using FTP, and it supports the following Unix printing methods:

- LPD
- FTP
- Direct Socket Interface

For full details on using Unix systems with your LANpress MP print server, refer to the *Unix* manual in the /Manual/Unix directory on the CD-ROM.

LANpress 2000 USB does not support FTP or Direct Socket Interface printing.