



*The fastest way to set
up a NetportExpress™
XL print server for
Ethernet† or Token
Ring† networks*

NetBIOS Installation

Intel NetportExpress™ XL Print Server

Microsoft Windows NT†
Microsoft Windows for Workgroups
Microsoft LAN Manager
IBM† LAN Server



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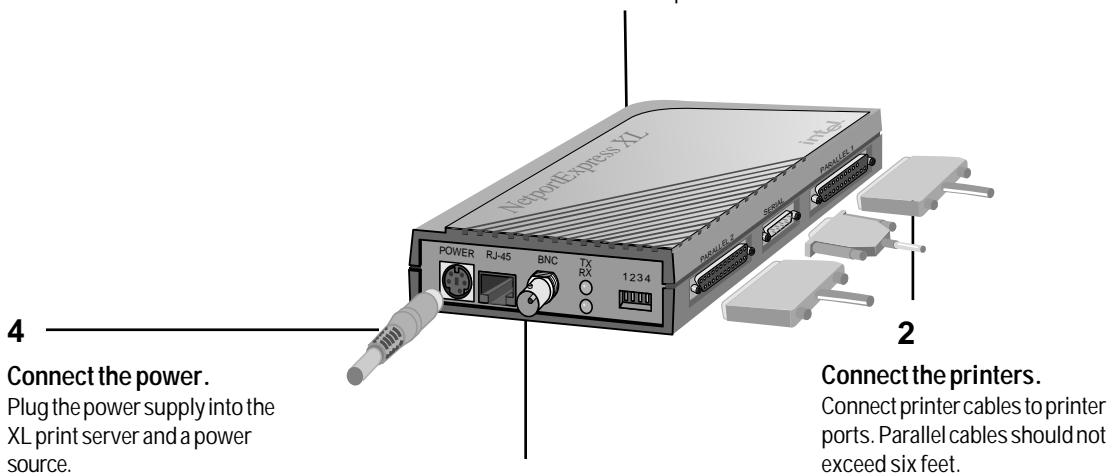
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Installing the Hardware

This illustrates the NetportExpress XL print server, Ethernet model. (Your NetportExpress print server may look different from this illustration, but the installation steps are the same.)

- 1** If you will be setting up for Novell as well as NetBIOS, use a pen to set switches for the Novell* frame type and NOS. See the table on the bottom of the XL print server.

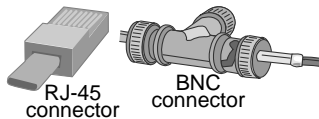


4 **Connect the power.**
Plug the power supply into the XL print server and a power source.

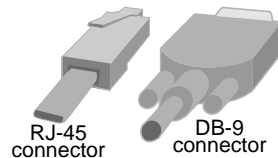
2 **Connect the printers.**
Connect printer cables to printer ports. Parallel cables should not exceed six feet.

- 3** **Connect a network cable.**
The XL automatically senses which type of connection is being used.

For Ethernet, use ONE of:



For Token Ring, use ONE of:



For more information about hardware configuration, see the *Complete Guide for the NetportExpress XL Print Server*.

Preparing the NetBIOS File Server

Follow these steps on the NetBIOS server, before installing NetportExpress software:

Note

If you use more than one domain, be sure to use a unique user account for each NetportExpress print server. Because if one domain “trusts” another domain, and each has a user called NETPORT, both print servers would be visible under the same name, causing confusion.

- 1 Log in to the network as Administrator with Admin privileges. Be sure Server Services is running at the console.
- 2 On a file server, create an account and directory for Netport:
First make sure the Account Policy window has a checkmark for “Permit Blank Password.”
Make sure the Create User window does **NOT** have a checkmark for “User Must Change Password at Next Logon.”
Share directory name: NETPORT
Account user name: NETPORT
User account has read-only access to directory NETPORT
- 3 Make sure the NetBEUI protocol is enabled on the workstation or server where your share directory exists.

Installing the Software

Choosing an installation directory

To access Netport Manager from several workstations, specify a network directory.

To install Netport Manager, follow the instructions on the disk. The setup program installs the following software in the Intel Netport Manager program group:

Intel Netport Manager. Configures all Netport print servers.

NMS Setup (optional). Registers Netport print servers with Novell's Management System Console.

DMI MIF Setup (recommended). Installs information into the MIF database, making the NetportExpress print server “DMI Aware.”

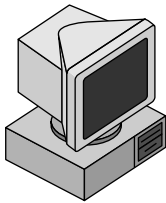
LANdesk Management Suite SnapIn (optional). Registers software alerts with the LANdesk Alert Management System.

Troubleshooting, README (optional). Troubleshooting notes from Technical Support and last-minute notes about this release of Netport Manager.

Setting Up for Microsoft Networks

Windows NT, Windows for Workgroups, LAN Manager

Configuring in Netport Manager...



Setting an RBL file server

An RBL server downloads the software that controls printing to the XL. This RBL server is not related to other remote boot servers that provide booting for diskless workstations.

Follow these steps at the workstation where you installed Netport Manager.

- 1** Start Netport Manager and select a NetportExpress print server from the list.
Click **Configure**.
- 2** If you're prompted, fill in the *Set Remote Boot Load Servers* window:

If there are buttons for "server type," select "NetBIOS."
Select a domain from the list, or type one in.

Select a shared directory to connect to from the list, or type one in. The name must be of the form `\\SERVER NAME\SHARE NAME`. This should be the same as the user name of the account created on the NetBIOS file server.
(Optional) Select an alternate RBL domain and shared directory, in case the first one goes down.

Click OK.

Note: There may be a delay while the NetportExpress updates its RBL information.
- 3** Click **Protocols**, select Windows NT, Windows for Workgroups, or LAN Manager, and click **Configure**.
- 4** Fill in the **Configure Microsoft ... Print Server** window:

Click Use Defaults to accept the default choices, or...

Select a domain for print services from the list (or type one in).
For each port, enter a name and description.

If you are using IP addresses, go to step 5.
If you are not using IP addresses, click OK to exit this window, click Close to exit Configure Protocols, and go to step 6.
- 5** Click **Set IP Addresses**.

Enter an IP address in the Netport IP Address field, or...

Have Netport Manager automatically assign an IP address, by clicking Dynamically Assign. (Requires a DHCP server).

Enter data in the following fields: Subnet Mask, Default Gateway IP Address, ARP Timeout (if they are not filled in for you by clicking Dynamically Assign).

Note: If you change the IP settings here, they also change for SNMP configuration.

Click OK to exit the Configure IP window.

Click Close to exit the Configure Protocols window.

- 6 (Optional) Click **Netport Hardware**. Set the options in the Configure Netport Hardware window and choose OK.
- 7 Choose menu item Manage / Exit to exit Netport Manager.

Connecting to the print server in Print Manager...

- 8 Start **Print Manager** to create and connect the printer.

From the menu Printer / Create, enter a printer name as you want it to appear to others on the network.

Choose the appropriate driver for the printer.

Check the box for "Share the printer on the network." Make sure the share name is the same as the printer name.

Click OK to exit the Create Printer window, and exit Print Manager as you usually do.

Go to the workstation you're going to print from, and choose menu item Printer / Connect. The newly created printer should be available in the list, if you are in the same domain you configured for in Netport Manager (step 4 above).

More About Print Manager

See your Windows documentation for more information about creating and connecting printers in Print Manager.

Setting Up for Microsoft Networks (continued)

Sharing the print server from the DOS Prompt...

- 9** Make the new printer a shared resource with **NET USE**.

From DOS on the workstation you're going to print from, issue a NET USE command such as:

```
NET USE LPT2: \\NETPORTNAME\SHARENAME
```

LPT2: must be a valid device name. You can use one of the device names in Printer / Properties / Details / Additional Ports.

\\SERVERNAME should be the NetportExpress ID or alias.

\SHARENAME should be the same name used to configure as a Windows print server in Netport Manager (step 4 above).

To remove the printer as a shared resource, use a command such as NET USE LPT2: /DELETE

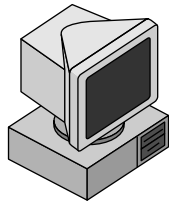
Configuration is complete.

To check your configuration, start Netport Manager and click Status. You may need to wait a few moments before status information is available from the XL.

To test printing, print the status page by clicking Status / Print.

Setting Up for IBM LAN Server

Configuring in Netport Manager...



Setting an RBL file server

An RBL server downloads the software that controls printing to the XL. This RBL server is not related to other remote boot servers that provide booting for diskless workstations.

Follow these steps at the workstation where you installed Netport Manager.

- 1 Start Netport Manager and select a NetportExpress print server from the list.
Click **Configure**.

- 2 If you're prompted, fill in the Set Remote Boot Load Servers window:

If there are buttons for "server type," select "NetBIOS."
Select a domain from the list, or type one in.

Select a shared directory to connect to from the list, or type one in. The name must be of the form \\SERVER NAME\SHARE NAME. This should be the same as the user name of the account created on the LAN Server file server.

(Optional) Select an alternate RBL domain and shared directory, in case the first one goes down.

Click OK.

There may be a delay while the NetportExpress updates its RBL information.

- 3 Click Protocols.
- 4 Select LAN Server, click **Configure**, and fill in the Configure LAN Server Print Server window:

For each port, select a domain from the list (or type one in), or click Use Defaults to accept the default choices.

For each port, enter a name and description, or accept the default choices.

Click OK.

Setting Up for IBM LAN Server (continued)

Sharing the print server from the DOS Prompt...

Make the new printer a shared resource with **NET USE**. From DOS on the workstation you're going to print from, issue a NET USE command such as:

```
NET USE LPT2: \\SERVERNAME\SHARENAME
```

LPT2: must be a valid device name. You can use one of the device names in Printer / Properties / Details / Additional Ports.

\\SERVERNAME should be the NetportExpress ID or alias.

\SHARENAME should be the same name used to configure as a print server in Netport Manager (step 4 above).

To remove the printer as a shared resource, use a command such as
NET USE LPT2: /DELETE

Sharing printing services with LAN Server

To create a printer object and install a printer driver on LAN Server:

- 1** Open Templates.
- 2** Point to the Printer template. Press and hold the second mouse button while dragging the template to a folder on the desktop. Then, release the second mouse button.
- 3** In the Create a Printer window:
Enter the desired printer name.
Choose a port that is connected to the printer.
Choose corresponding printer drivers from the driver list.
Click Create, then click OK.
- 4** Indicate whether or not you want the system to install an equivalent WIN-OS2 printer configuration.

Configuration is complete.

To check your configuration, start Netport Manager and click Status on the Main Menu. You may need to wait a few moments before status information is available from the XL. To test printing, print the status page by clicking Status / Print.

Troubleshooting

If you have questions about the installation or have problems printing to an XL from a workstation, try the solutions suggested below. If you still can't solve the problem, see Chapter 12 of the *Complete Guide*.

Your domain's not in the list

The list of domains will only include domains that your workstation is logged into. However, you can enter your desired domain by typing it in.

Your shared directory's not in Remote Boot Load Server list

- ☐ Remember NetBIOS servers are identified by a preceding double-backslash (\\).
- ☐ The list will not include shared directories on the computer running Netport Manager. However, you can enter your desired shared directory by typing it in.

Job doesn't print

- ☐ Check that the desired queues were created on the LAN Manager or LAN Server file server.
- ☐ Be sure that the queues you're using are mapped to the correct LPT ports on the LAN Manager or LAN Server file server. If the queue is mapped to LPT4 through LPT9, or any COM port, change the mapping to LPT1, LPT2, or LPT3 at the file server.

Print jobs have garbled data

Make sure the driver installed for that printer is correct. (In Microsoft Print Manager, see Printer / Properties.)

Can't share the queue (LAN Manager only)

When you try to use the NET SHARE command to share a queue that is not yet mapped to the correct printer, you'll see this message:

The destination list provided does not match the destination list of the printer queue.

Use NET ADMIN to check and correct the printer/queue mappings:

- 1 At the OS/2 full screen prompt, type:
`NET ADMIN`
- 2 From the View menu, choose the Shared Resources option.
- 3 In the *Shared Resources* window, select the <Add Share> option.
- 4 Choose the Printer option and select OK.
- 5 In the *Share a Printer Queue with the Network* window, highlight the desired queue and select OK.
- 6 View the Shared Resource information to see the queue and printer mappings. Be sure the printer device is LPT1, LPT2, or LPT3. Then select Done.
- 7 Assign permissions to the users and groups you want to have access to the print queue. Highlight the desired user or group that currently doesn't have access, select <yes> for "permitted access", and then choose <Permit> to add that user or group to the Assigned Permissions list. Choose OK.
- 8 Exit NET ADMIN.

If Netport Manager will not launch:

- ☐ Run Netport Manager from a different workstation.
- ☐ The workstation may be running IBM DOS requester with the maximum number of NetBIOS Interface Commands (NCB) set too low. The default is 12. Edit the CONFIG.SYS file to increase the NCB value to 30. The NCB command line should look as follows:

```
Device=c:\dxmt0mod.sys C=30
```

NOTE: There may be other parameters on the same line such as
ST=12 S=12 ES=6 EST=6 0=Y CR=Y CF=Y

Reboot after making the change.

Downloading Software

The current software for each Netport product is in a self-extracting archive, with a brief description so you can find the archive you need. Once you download an archive and unpack it, you'll find a README file that explains in detail what you need to do to install the software or update your Netport print server.

Internet

World Wide Web <http://www.intel.com>
FTP Server host name: [ftp.intel.com](ftp://ftp.intel.com)
Directory: /pub/PCandNetworkSupport/Netport
Password: your current email address

CompuServe

Current release software and FaxBack[†] documents can be found on CompuServe in Intel's libraries.

- 1** GO INTEL
- 2** Join the Forum (free). This is necessary in order to see the libraries.
For Netport software, see library "Network Print/Fax."
For FaxBack documents, see library "Self-Help Docs."

Intel BBS

Intel BBS numbers (24-hour):

U.S., Canada	1-503-264-7999
Europe	+44-1793-432955
Singapore	+65-256-4776
Hong Kong	+852-2-530-4116
Korea	+822-784-3430
Australia	+61-2-975-3066
Taiwan	+886-2-718-6422
Worldwide	1-503-264-7999

(Modem settings: 8-N-1, up to 14.4Kbps)

- 1** Log in using your first name, last name, and location.
- 2** From the main menu, choose:
File Downloads
 - Network Products
 - Network Print and Fax
 - Netport
 - Current Release

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