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Network Guide

NPD3077-00

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Safety Instructions

Warnings, Cautions, and Notes

Warnings
must be followed carefully to avoid bodily injury.

Cautions
must be observed to avoid damage to your equipment.

Notes
contain important information and useful tips on the operation of your printer.

Chapter 1

Introduction

About Your Printer

Your printer has a built-in Ethernet interface and can connect anywhere on your network using 10Base-T or 100Base-TX. (On some models, 1000Base-T is also supported.) The built-in Ethernet interface, which is called the network interface in this manual, automatically selects the correct standard when it connects to a network. In addition, it supports and automatically selects the IEEE 802.2, IEEE 802.3, Ethernet II, and Ethernet SNAP network protocols.

Because the network interface supports multiple protocols and automatically detects protocols on your network, you can print from Microsoft® Windows®, Apple® Macintosh®, UNIX®, and IBM® OS/2 applications.

Use the Software CD-ROM to easily configure the network interface for use on the TCP/IP network and install the printer driver. You can use the printer on the TCP/IP network at once.

If you want to configure the network interface for protocols such as TCP/IP, NetWare, NetBEUI, AppleTalk®, IPP, and SNMP, use EpsonNet Config, the configuration utility provided with your product, to quickly and easily configure the network interface to use those protocols.

Note:

- *The EpsonNet Config utility configures the network interface to work only with protocols that exist on your network. This does not imply that you can use all of the above-mentioned protocols on your network or operating system. The protocols that the network interface can use may vary depending on the operating system and the network configuration.*
- *Some printers do not support NetWare queue-based printing. See the manual shipped with your printer for details.*

About This Guide

This Network Guide contains information about using the network interface on a network. It includes how to set up the network interface, install the configuration software, and modify network settings of your printer and computers.

For information about your printer, see your User's Guide.

Note:

- ❏ *To read the online guide, you must have Microsoft Internet Explorer 4.0 (or later) or Netscape Navigator 4.0 (or later) installed on your computer.*
- ❏ *This guide is written for network administrators, and many of the steps included here require detailed network knowledge and administrator rights.*
- ❏ *The term "network administrator" refers to the person responsible for maintaining the network. "Administrator" is synonymous with "Supervisor" in this guide.*
- ❏ *The term "network interface" refers to the built-in Ethernet interface of the printer in this guide.*
- ❏ *Some screen shots in this guide may list a printer name other than your printer. This difference does not alter the instructions.*
- ❏ *The supported operating systems are different depending on the printer. See your printer's User's Guide for the supported operating systems.*

Operating Environment

The network interface supports the following environments.

For users of printers supporting NetWare queue-based printing

OS	Version	Protocol
Windows Vista Windows XP (Home, Professional) Windows Server 2003 Windows 2000 (Professional, Server)	-	TCP/IP (using LPR, Standard TCP/IP Port, or EpsonNet Print)
		IPP

Windows Me	-	TCP/IP (using EpsonNet Print)
		IPP
		NetBEUI
Windows 98 Windows 98 SE	-	TCP/IP (using EpsonNet Print)
		IPP (using EpsonNet Internet Print)
		NetBEUI
Windows NT 4.0 with Service Pack 5 or higher	-	TCP/IP (using LPR or EpsonNet Print)
		IPP (using EpsonNet Internet Print)
		NetBEUI
Macintosh	Mac OS X 10.4 or later	Bonjour
		TCP/IP
		AppleTalk
	Mac OS X 10.2.4 or later	Rendezvous
		TCP/IP
		AppleTalk
	Mac OS X 10.2 or later	TCP/IP
		AppleTalk
	Mac 9.1 or later	AppleTalk
NetWare	3.x	Bindery mode
	4.x/IntranetWare	NDS mode
		Bindery emulation mode
	5.x/6.x	NDS Queue-based print system
		NDPS
OS/2 (OS/2 Warp Connect, OS/2 Warp Server)	V3 V4	TCP/IP (lprportd)
		NetBEUI
UNIX	Sun OS 4.1.4 or later: SPARC	lpr, ftp
	SunSoft Solaris 2.4 or later: SPARC and x86 SCO UNIX 4.2 or later	
	SCO UnixWare 2.01 or later	
	HP/UX 9.05 or later	
	IBM AIX 3.2.5 or later and 4.1.3 or later	

Note:

- ❏ *Only the Intel version of Windows NT is supported.*
- ❏ *The multi-user environment of Mac OS 9 is not supported.*
- ❏ *If you use the printer in a dial-up router environment, you must set an IP address for the printer. Make sure the IP address is suitable for the segment; incorrect IP address may generate unexpected dial-up.*

For users of printers not supporting NetWare queue-based printing

OS	Version	Protocol
Windows Vista Windows XP (Home, Professional) Windows Server 2003 Windows 2000 (Professional, Server)	-	TCP/IP (using LPR, Standard TCP/IP Port, or EpsonNet Print)
		IPP
Windows Me	-	TCP/IP (using EpsonNet Print)
		IPP
		NetBEUI
Windows 98 Windows 98 SE	-	TCP/IP (using EpsonNet Print)
		IPP (using EpsonNet Internet Print)
		NetBEUI
Windows NT 4.0 with Service Pack 5 or higher	-	TCP/IP (using LPR or EpsonNet Print)
		IPP (using EpsonNet Internet Print)
		NetBEUI
Macintosh	Mac OS X 10.4 or later	Bonjour
		TCP/IP
		AppleTalk
	Mac OS X 10.2.4 or later	Rendezvous
		TCP/IP
		AppleTalk
	Mac OS X 10.2 or later	TCP/IP
		AppleTalk
	Mac 9.1 or later	AppleTalk

NetWare	5.x/6.x	NDPS (using EpsonNet NDPS Gateway)
OS/2 (OS/2 Warp Connect, OS/2 Warp Server)	V3 V4	TCP/IP (lprportd)
		NetBEUI
UNIX	Sun OS 4.1.4 or later: SPARC	lpr, ftp
	SunSoft Solaris 2.4 or later: SPARC and x86SCO UNIX 4.2 or later	
	SCO UnixWare 2.01 or later	
	HP/UX 9.05 or later	
	IBM AIX 3.2.5 or later and 4.1.3 or later	

Note:

- ❏ *Only the Intel version of Windows NT is supported.*
- ❏ *The multi-user environment of Mac OS 9 is not supported.*
- ❏ *If you use the printer in a dial-up router environment, you must set an IP address for the printer. Make sure the IP address is suitable for the segment; incorrect IP address may generate unexpected dial-up.*

Large format inkjet printers

OS	**Version**	**Protocol**
Windows Vista Windows XP (Home, Professional) Windows 2000 (Professional, Server)	-	TCP/IP (using LPR, Standard TCP/IP Port, or EpsonNet Print)
		IPP*
Macintosh	Mac OS X 10.4 or later	Bonjour
		TCP/IP
		AppleTalk*
	Mac OS X 10.2.8 or later	Rendezvous
		TCP/IP
		AppleTalk*

* IPP and AppleTalk are not supported on some models.

Features of the Network Interface

- ❏ Connects your Epson printer using a built-in Ethernet interface, which is called the network interface in this manual, to the network.
- ❏ Supports multiple protocols, such as TCP/IP, NetWare, NetBEUI, AppleTalk, and IPP.
- ❏ Supports both 10Base-T and 100Base-TX. (On some models, 1000Base-T is also supported.)
- ❏ Supports DHCP.
- ❏ Supports Automatic Private IP Addressing (APIPA) that assigns an IP address automatically to the network interface even if there is no DHCP server on the network.
- ❏ Supports the Dynamic DNS function.
- ❏ Supports SNMP and MIB.
- ❏ Supports SNTP (Simple Network Time Protocol).
- ❏ Supports Rendezvous on Mac OS X 10.2.4 or later.
- ❏ Supports Bonjour on Mac OS X 10.4 or later.

Network Interface Operation

Status light

The indicator lights provide you with important information on the operations of the network interface.

Laser printers

Status light	Data light	Network Status
Off	Green	Ready (10 M link)
Off	Green (Flashing)	Receiving packets (10 M link)
Orange	Green	Ready (100 M link)
Orange	Green (Flashing)	Receiving packets (100 M link)

Large format inkjet printers (Models that do not support 1000 Mbps communication)

Status light	Data light	Network Status
Green	Green	Ready (10 M link)
Green	Green (Flashing)	Receiving packets (10 M link)
Orange	Green	Ready (100 M link)
Orange	Green (Flashing)	Receiving packets (100 M link)

Large format inkjet printers (Models that support 1000 Mbps communication)

Status light	Data light	Network Status
Red	Yellow	Ready (100 M link)
Red	Yellow (Flashing)	Receiving packets (100 M link)
Green	Yellow	Ready (1000 M link)
Green	Yellow (Flashing)	Receiving packets (1000 M link)

Network connector

RJ-45 connector: This connector is used to connect an Ethernet cable to a network. You can use this cable for both 10Base-T and 100Base-TX. (On some models, 1000Base-T is also supported.)

Caution:
You must use the following shielded twisted-pair cable to connect the network interface to a network.

- ❏ *Category-5 or higher for the 10Base-T or 100Base-TX connection*
- ❏ *Category-5e or higher for the 1000Base-T connection*

About the Software

The software CD-ROM provided with your printer includes the following network software.

Note:
The software provided varies depending on your printer model.

- ❏ EpsonNet Config for Windows is a Windows-based configuration utility for administrators that allows you to configure the network interface for various protocols such as TCP/IP, NetWare, MS Network, AppleTalk, IPP, and SNMP. See "EpsonNet Config for Windows" on page 113.
- ❏ EpsonNet Config for Macintosh is a Macintosh-based configuration utility for administrators that allows you to configure the network interface for TCP/IP, AppleTalk, and IPP. See "EpsonNet Config for Macintosh" on page 117.
- ❏ EpsonNet Config with Web Browser is a Web-based configuration utility that allows you to configure the network interface for TCP/IP, NetWare, MS Network, AppleTalk, IPP, and SNMP. See "EpsonNet Config with Web Browser" on page 120.
- ❏ EpsonNet Print is a utility that enables TCP/IP printing for Windows. (Windows Vista/XP/Server 2003/2000/NT 4.0 also support OS standard LPR printing.) See "EpsonNet Print" on page 145.
- ❏ EpsonNet Internet Print is a utility that supports printing across the Internet using Internet Printing Protocol for Windows 98/95/NT 4.0. See "EpsonNet Internet Print" on page 159.
- ❏ EpsonNet SetupManager is a utility that provides a simple printer installation and configuration tool for network administrators, and an easy network printer installation process for clients. See "About EpsonNet SetupManager" on page 167.

- EpsonNet NDPS Gateway is a gateway utility that you can use to print and monitor the printer status of the Epson printer in the NDPS (Novell Distributed Print Services) environment of NetWare.

  For users of printers supporting NetWare Queue-Based Printing, "Using the EpsonNet NDPS Gateway" on page 93.

  For users of printers not supporting NetWare Queue-Based Printing, "Using the EpsonNet NDPS Gateway" on page 102.

Terms and Concepts

Configuration -- a prepared set of conditions for proper operation of a device. Configuring the network interface is to prepare it to work with protocols available on a network.

DHCP -- a dynamic host configuration protocol. It is a protocol that assigns dynamic IP addresses to devices on a network.

EtherTalk -- the communication protocol of AppleTalk governing Ethernet transmissions

ftp -- a TCP/IP application protocol for file transfer

lpd -- a TCP/IP remote printing protocol application

Print queue -- a location where a print job is stored as a file, until the network interface sends the job to the assigned printer

Protocol -- a rule that controls how data or information is exchanged through a network. Computers and software cannot communicate with each other using different protocols.

Remote printer -- a shared printer connected elsewhere on the network, but under the control of a NetWare print server

TCP/IP -- Transmission Control Protocol/Internet Protocol, a layer of protocols that provides communication between nodes on a network

Chapter 2

How To

Overview

This section describes the general procedure on how to set up the network interface for use on a network.

1. Check the network interface operation.

   Check the functions and operations of the network interface, such as status lights and RJ-45 connector. See “Network Interface Operation” on page 15 for details.

2. Select a printing method.

   Select a printing method appropriate for your network environment and operating system. If you are not sure, see “Printing from Windows” on page 19 or “Printing from Macintosh” on page 19 for details.

3. Install the necessary components on your computer.

   Make sure the necessary components (such as TCP/IP, NetBEUI, etc.) are installed on the computer, and network settings (such as IP address, subnet mask, etc.) of the computer is set. See “About Installing Components on Your Computer” on page 22 for details.

4. Connect the network interface to the network.

   Connect the network interface to the network. See “Connecting the Network Interface to the Network” on page 36 for details.

5. Configure the network interface and install the printer driver.

   See “Configuring the Network Interface (For Windows Users)” on page 37 or “Configuring the Network Interface (For Macintosh Users)” on page 42 for details.

6. If necessary, configure the network settings of the network interface using EpsonNet Config.

   Configure the network interface for TCP/IP, AppleTalk, MS Network, etc. using EpsonNet Config. For Windows users, see “About EpsonNet Config” on page 113. For Macintosh users, see “About EpsonNet Config” on page 117.

Selecting a Printing Method

Printing from Windows

Check if there is a Windows Vista/XP/Server 2003/2000/NT print server on your network, and then use the suggestions below.

Note:
Only the recommended printing methods are introduced here. See "Features of the Printing Methods" on page 20 for information on additional methods.

If no Windows Vista/XP/Server 2003/2000/NT print server exists

Use a printing method appropriate to your operating system:

- ❏ For Windows Me/98
  We recommend TCP/IP printing via EpsonNet Print. See "About EpsonNet Print" on page 145.
- ❏ For Windows Vista/XP/Server 2003/2000/NT
  We recommend TCP/IP printing via LPR. See "Windows Vista" on page 48, "Windows XP" on page 53, "Windows Server 2003" on page 61, "Windows 2000" on page 66, or "Windows NT 4.0" on page 71.

If a Windows Vista/XP/Server 2003/2000/NT print server exists

On the server, set the printer to connect with LPR and turn it into a shared printer. Your clients can then print to this shared printer.

Printing from Macintosh

Mac OS X 10.4 or later

- ❏ Bonjour
- ❏ EPSON TCP/IP
- ❏ EPSON AppleTalk

Mac OS X 10.2.4 or later

- ❏ Rendezvous
- ❏ EPSON TCP/IP

❏ EPSON AppleTalk

Mac OS X 10.2 or later

❏ EPSON TCP/IP

❏ EPSON AppleTalk

Mac OS 9

❏ AppleTalk

Features of the Printing Methods

This section describes features of the printing methods available for you to choose.

LPR (TCP/IP) printing

Advantages

❏ No computer as a network interface is required.

❏ No special utility for Windows Vista/XP/Server 2003/2000/NT is required.

❏ You can see the printer status using EPSON Status Monitor.

❏ For Windows Vista/XP/Server 2003/2000/NT, you can create a print log using the event viewer.

❏ You can print via a router.

Disadvantages

❏ You need to set up TCP/IP.

❏ For Windows Me/98, EpsonNet Print must be installed on all computers to use for printing.

Internet printing

Advantages

❏ No proxy server (computer) is required.

❏ You can print to the printer over the Internet.

Disadvantages

- ❏ EPSON Status Monitor cannot be used.
- ❏ TCP/IP and DNS settings are required.
- ❏ For Windows Me/98, EpsonNet Internet Print must be installed on all computers used for printing.
- ❏ For Windows Vista/XP/Server 2003/2000, you cannot share the Internet printer.

Microsoft Network Shared printing

Advantages

- ❏ Easy to set up (IP address is not required if NetBEUI protocol is installed).
- ❏ No computer as a network interface is required.
- ❏ No special print utility is required.

Disadvantages

- ❏ EPSON Status Monitor cannot be used.
- ❏ You cannot print via a router.
- ❏ It takes a longer time to start printing because more time is required to search for a network printer.

Installing Components on Your Computer

About Installing Components on Your Computer

Before configuring the network interface and printing from the computer, you need to install the necessary components (such as TCP/IP, NetBEUI, etc.) and assign an IP address and subnet mask for your computer, depending on the printing method you want to use. See the section in this chapter appropriate for your operating system.

Note:

- ❏ *The Windows operating system CD-ROM may be required during the installation.*
- ❏ *When using TCP/IP or IPP for printing, you need to set the IP address, the subnet mask, and the default gateway of the computer.*

Windows Vista

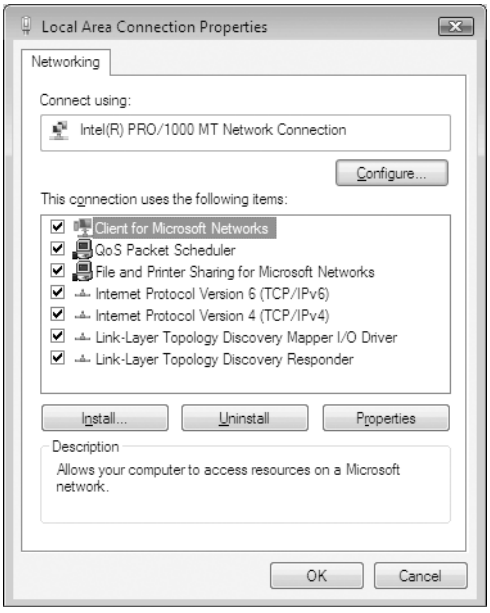
For Windows Vista, use the following procedure to install the necessary components.

1. Click **Start**, click **Control Panel**, and then click **View network status and tasks** or double-click **Network and Sharing Center**.

2. Click **View Status**, and then click the **Properties** button.

   Note:
   If the User Account Control screen appears, click the ***Continue*** *button.*

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	Internet Protocol (TCP/IP)
MS Network	Internet Protocol (TCP/IP)

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	Internet Protocol (TCP/IP)

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR or Internet printing:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

5. For LPR or Internet printing:
   Double-click **Internet Protocol Version 4 (TCP/IPv4)** on the Local Area Connection Properties dialog box to open the Internet Protocols Version 4 (TCP/IPv4) Properties dialog box. Set the IP address, the subnet mask, etc. and then click **OK**.

6. Restart the computer.

The necessary components are now installed. Go to the section “Connecting the Network Interface to the Network” on page 36.

Windows XP

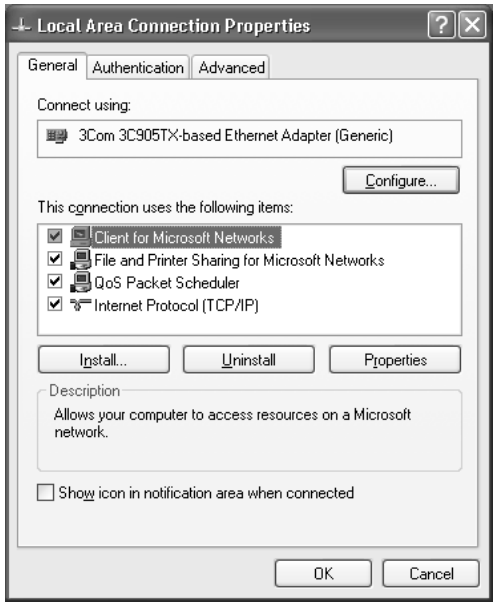
For Windows XP, use the following procedure to install the necessary components.

1. Click **Start**, highlight **Control Panel**, and then click **Network and Internet Connections**. Select **Network Connections**.

2. Under **LAN or High-Speed Internet**, click the **Local Area Connection** icon.

3. Under **Network Tasks**, click **Change settings of this connection**.

4. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	Internet Protocol (TCP/IP)
MS Network	Internet Protocol (TCP/IP)
NetWare, SNMP (IPX trap)*	Latest Novell Client downloaded from the Novell Web site

* Only for printers supporting NetWare queue-based printing

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	Internet Protocol (TCP/IP)
Microsoft Network Shared printing	TCP/IP or NetBEUI Client for Microsoft Networks
Printing via NetWare server*	Latest Novell Client downloaded from the Novell Web site

* If you are using a printer that does not support NetWare queue-based printing, print via the NetWare server using EpsonNet NDPS Gateway.

5. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR or Internet printing:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

   For Microsoft Network Shared printing:
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

   For printing via NetWare server:
   Download the latest Novell Client from the Novell Web site and install it on the computer. Also, be sure to install either IP or IPX. See the Novell Web site for detailed information.

6. For LPR, Internet, Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Local Area Connection Properties dialog box to open the Internet Protocols (TCP/IP) Properties dialog box. Set the IP address, the subnet mask, etc. and then click **OK**.

7. Restart the computer.

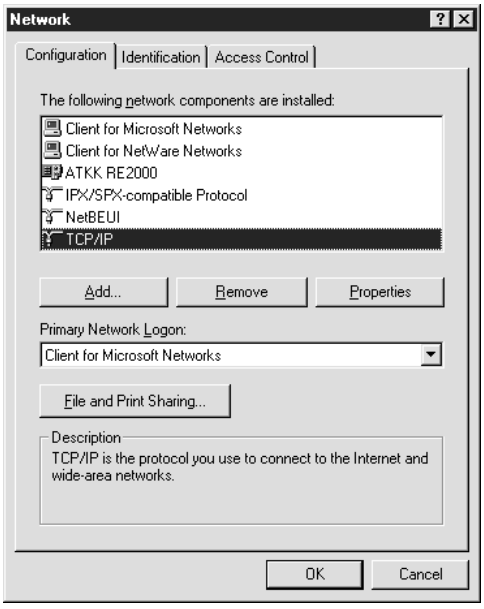
The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 36.

Windows Me/98

For Windows Me/98, use the following procedure to install the necessary components.

1. Click **Start**, point to **Settings**, and then select **Control Panel**.

2. Double-click the **Network** icon. Check if the following necessary components are in the list of installed network components on the Configuration menu. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	TCP/IP
MS Network	NetBEUI or TCP/IP
NetWare, SNMP (IPX trap)*	Latest Novell Client downloaded from the Novell Web site

* Only for printers supporting NetWare queue-based printing

Note for users of printers supporting NetWare queue-based printing:
Do not run Novell Client for Windows 95/98 version 3.00 and Novell Client for Windows NT version 4.50 when using the following modes: NetWare 3.x/4.x Bindery Print Server mode, NetWare 3.x Remote Printer mode, NetWare 4.x Bindery Remote Printer mode, and NetWare 4.x/5.x NDS Remote Printer mode.

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	TCP/IP
Microsoft Network Shared printing	TCP/IP or NetBEUI Client for Microsoft Networks
Printing via NetWare server*	Latest Novell Client downloaded from the Novell Web site

* If you are using a printer that does not support NetWare queue-based printing, print via the NetWare server using EpsonNet NDPS Gateway.

3. If the necessary components are not in the list, click **Add** to install them, as described below.

   For LPR or Internet printing:
   Select **Protocol** and then click **Add**. Select **Microsoft** from the Manufacturers list and **TCP/IP** from the Network Protocols list. Then click **OK**.

   For Microsoft Network Shared printing:
   To use TCP/IP, see the description described earlier to install TCP/IP.
   To use NetBEUI, select **Protocol** and then click **Add**. Select **Microsoft** from the Manufacturers list and **NetBEUI** from the Network Protocols list. Then click **OK**.
   Select **Client** and then click **Add**. Select **Microsoft** from the Manufacturers list and **Client for Microsoft Networks** from the Network Clients list. Then click **OK**.

   For printing via NetWare server:
   Download the latest Novell Client from the Novell Web site and install it on the computer. Also, be sure to install either IP or IPX. See the Novell Web site for detailed information.

4. For LPR, Internet, Microsoft Network Shared printing:
   Double-click **TCP/IP** on the Configuration menu to open the TCP/IP Properties dialog box. Set the IP address, the subnet mask, etc. and then click **OK**.

5. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 36.

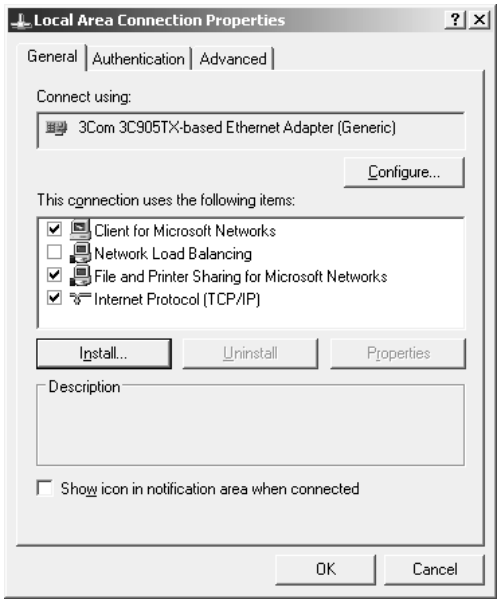
Windows Server 2003

For Windows Server 2003, use the following procedure to install the necessary components.

1. Click **Start**, point to **Control Panel**, and then select **Network Connections**. Click **Local Area Connections**.

2. Click the **Properties** button.

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	Internet Protocol (TCP/IP)
MS Network	Internet Protocol (TCP/IP)
NetWare, SNMP (IPX trap)*	Latest Novell Client downloaded from the Novell Web site

* Only for printers supporting NetWare queue-based printing

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	Internet Protocol (TCP/IP)
Microsoft Network Shared printing	TCP/IP or NetBEUI Client for Microsoft Networks
Printing via NetWare server*	Latest Novell Client downloaded from the Novell Web site

* If you are using a printer that does not support NetWare queue-based printing, print via the NetWare server using EpsonNet NDPS Gateway.

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR or Internet printing:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

   For Microsoft Network Shared printing:
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

   For printing via NetWare server:
   Download the latest Novell Client from the Novell Web site and install it on the computer. Also, be sure to install either IP or IPX. See the Novell Web site for detailed information.

5. For LPR, Internet, Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Local Area Connection Properties dialog box to open the Internet Protocols (TCP/IP) Properties dialog box. Set the IP address, the subnet mask, etc. and then click **OK**.

6. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 36.

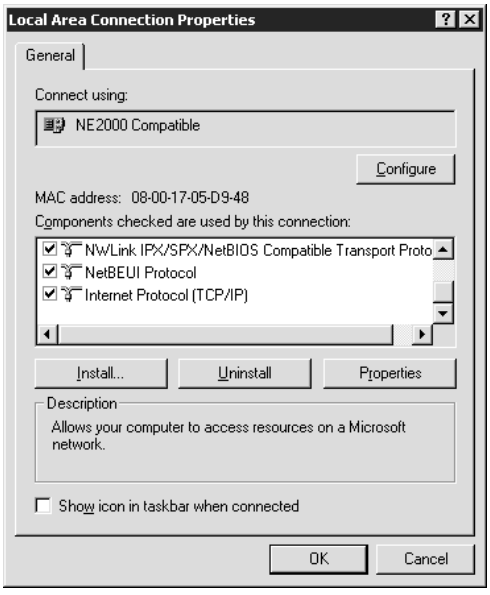
Windows 2000

For Windows 2000, use the following procedure to install the necessary components.

1. Click **Start**, point to **Settings**, and then select **Network and Dial-up Connections**. The Network and Dial-up Connections screen appears.

2. Right-click the desired network connection and then select **Properties**.

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	Internet Protocol (TCP/IP)
MS Network	NetBEUI or Internet Protocol (TCP/IP)
NetWare, SNMP (IPX trap)*	Latest Novell Client downloaded from the Novell Web site

* Only for printers supporting NetWare queue-based printing

Note for users of printers supporting NetWare queue-based printing:
Do not run Novell Client for Windows 95/98 version 3.00 and Novell Client for Windows NT version 4.50 when using the following modes: NetWare 3.x/4.x Bindery Print Server mode, NetWare 3.x Remote Printer mode, NetWare 4.x Bindery Remote Printer mode, and NetWare 4.x/5.x NDS Remote Printer mode.

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	Internet Protocol (TCP/IP)
Microsoft Network Shared printing	Internet Protocol (TCP/IP) or NetBEUI Client for Microsoft Networks
Printing via NetWare server*	Latest Novell Client downloaded from the Novell Web site

* If you are using a printer that does not support NetWare queue-based printing, print via the NetWare server using EpsonNet NDPS Gateway.

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR or Internet printing:
   Select **Protocol** and then click **Add**. In the Select Network Protocol dialog box, select **Internet Protocol (TCP/IP)** and then click **OK**.

   For Microsoft Network Shared printing:
   To use Internet Protocol, see the description described earlier to install Internet Protocol (TCP/IP).
   To use NetBEUI, select **Protocol** and then click **Add**. Select **NetBEUI Protocol** and then click **OK**.
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

   For printing via NetWare server:
   Download the latest Novell Client from the Novell Web site and install it on the computer. Also, be sure to install either IP or IPX. See the Novell Web site for detailed information.

5. For LPR, Internet, Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Configuration menu to open the TCP/IP Properties dialog box. Set the IP address, the subnet mask, etc. and then click **OK**.

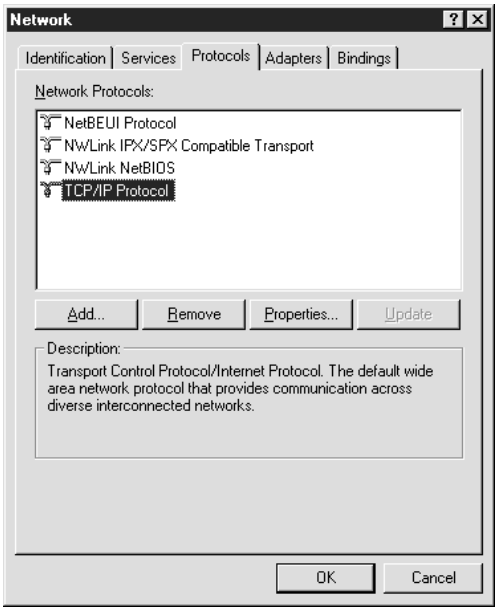
6. Restart the computer.

The necessary components are now installed. Go to the section “Connecting the Network Interface to the Network” on page 36.

Windows NT 4.0

For Windows NT 4.0, use the following procedure to install the necessary components.

1. Click **Start**, point to **Settings**, and then select **Control Panel**.
2. Double-click the **Network** icon in the Control Panel.
3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	**Necessary components**
TCP/IP, AppleTalk, IPP, SNMP (IP trap)	TCP/IP
MS Network	NetBEUI or TCP/IP
NetWare, SNMP (IPX trap)*	Latest Novell Client downloaded from the Novell Web site

* Only for printers supporting NetWare queue-based printing

Note for users of printers supporting NetWare queue-based printing:
Do not run Novell Client for Windows 95/98 version 3.00 and Novell Client for Windows NT version 4.50 when using the following modes: NetWare 3.x/4.x Bindery Print Server mode, NetWare 3.x Remote Printer mode, NetWare 4.x Bindery Remote Printer mode, and NetWare 4.x/5.x NDS Remote Printer mode.

The following table lists the components required for network printing.

Printing method	Necessary components
LPR or Internet printing	Protocols menu: TCP/IP Services menu: Microsoft TCP/IP Printing
Microsoft Network Shared printing	Protocols menu: TCP/IP or NetBEUI Services menu: Workstation
Printing via NetWare server*	Latest Novell Client downloaded from the Novell Web site

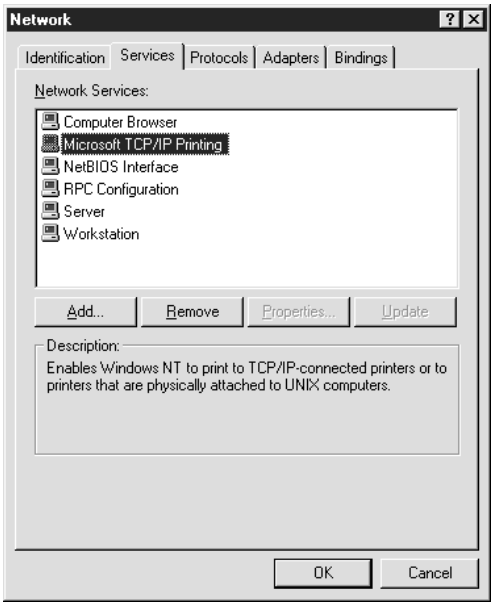
* If you are using a printer that does not support NetWare queue-based printing, print via the NetWare server using EpsonNet NDPS Gateway.

4. If the necessary components are not in the list, click **Add** to install them, as described below.

   For LPR or Internet printing:
   Select the **Protocols** tab and then click **Add**. Select **TCP/IP** from the list and then click **OK**. Set the IP address, the subnet mask, etc. and then click **OK**.
   Select the **Services** tab and then click **Add**. Select **Microsoft TCP/IP Printing** from the list and then click **OK**.

   For Microsoft Network Shared printing:
   To use TCP/IP, see the description described earlier to install TCP/IP.
   To use NetBEUI, select the **Protocols** tab and then click **Add**. Select **NetBEUI** from the list and then click **OK**.
   Select the **Services** tab and then click **Add**. Select **Workstation** from the list and then click **OK**.

For printing via NetWare server:
Download the latest Novell Client from the Novell Web site and install it on the computer. Also, be sure to install either IP or IPX. See the Novell Web site for detailed information.



5. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 36.

Macintosh

To assign an IP address, subnet mask, etc. to your Macintosh, follow the steps below.

Note:
To print using the AppleTalk protocol and configure the network interface with EpsonNet Config for Macintosh, select ***Ethernet*** *or* ***Built-in Ethernet*** *on the* ***AppleTalk*** *Control Panel or the* ***AppleTalk*** *tab. Then configure the network interface with EpsonNet Config for Macintosh.*

Mac OS X

1. From the Apple menu, select **System Preferences**.
2. Open the **Network** control panel. Click the **TCP/IP** tab.
3. Select **Built-in Ethernet** from the Show pull down menu.
4. Assign an IP address and other settings if necessary.
5. Click the **Apply Now** button to save any changes.

Go to the section "Connecting the Network Interface to the Network" on page 36.

Mac OS 9

1. From the Apple menu, select **Control Panel**, and then **TCP/IP**.
2. Set Connect via to **Ethernet**.
3. Assign an IP address and other settings if necessary.
4. Close the dialog box to save any changes.

Go to the section "Connecting the Network Interface to the Network" on page 36.

Setting Up the Network Interface

Connecting the Network Interface to the Network

Follow the instructions below to connect the network interface to the network.

1. Make sure that your printer is turned off.

2. Connect one end of the network cable to the RJ-45 connector on the network interface, and the other end to the network.

   Caution:
   - ❏ *You must use a Category 5 shielded twisted-pair cable to connect the network interface to prevent malfunction.*
   - ❏ *Do not connect or disconnect the network cable when the printer is on.*
   - ❏ *Do not connect the network interface and the computer directly. Be sure to use a HUB to connect the network interface to the network.*

   Note:
   You can use both 10Base-T and 100Base-TX. (On some models, 1000Base-T is also supported.) When you print a lot of data, we recommend you use a higher-speed with light network traffic.

3. Turn on your printer. After the status lights go off, print a network status sheet.

   Caution:
   After turning off the printer, wait until the status lights go off before turning it back on; otherwise the network interface may not work correctly.

   Note for Mac OS X 10.2.4 or later:
   Since the printer supports Bonjour/Rendezvous and is on by default, you can use the printer on a network just by connecting it to the network. If you want to disable the Bonjour/Rendezvous setting, use the printer's control panel. See "Setting an IP Address on the Printer's Control Panel" on page 178 or "Setting an IP Address on the Printer's Control Panel (Large Format Inkjet Printers)" on page 182 for details.

Now, you can configure the network interface to use on the TCP/IP network and also install the printer driver.

If you are using Windows, see "Configuring the Network Interface (For Windows Users)" on page 37.

If you are using Macintosh, see "Configuring the Network Interface (For Macintosh Users)" on page 42.

Configuring the Network Interface (For Windows Users)

Configure the network interface for use on the TCP/IP network and install the printer driver on your computer.

1. Insert the Software CD-ROM in the CD-ROM drive.

2. The Software Installation screen opens automatically.

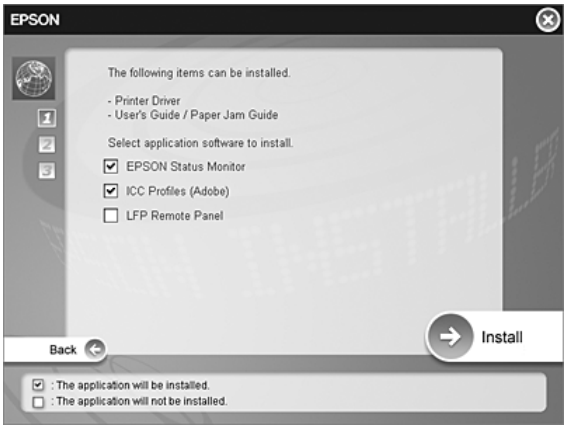
   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.

3. Make sure that all applications are closed, and then click the **Easy Install** button.

4. Select **Network**.

   Note:
   If your printer is connected to your computer with a USB cable or a parallel cable, select ***Local****. Then follow the on-screen instructions.*

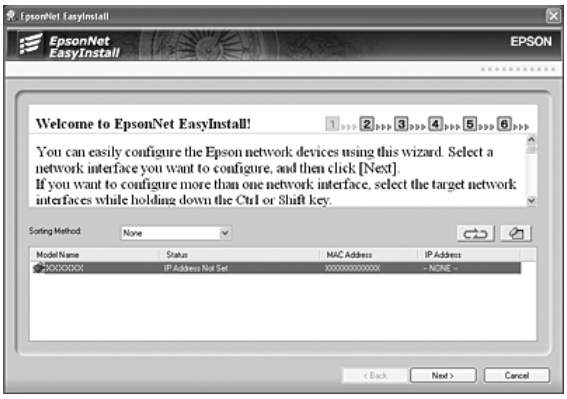
5. If you want to install software other than printer driver, select those check boxes. Click the **Install** button and follow the on-screen instructions.



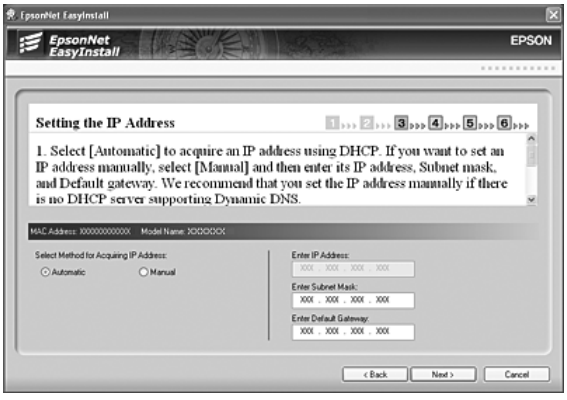
Note:
This screen may vary depending on the printer.

Note:
If the following screen appears, click the ***Unblock*** *button; otherwise the printer is not listed on the screen of EpsonNet EasyInstall.*

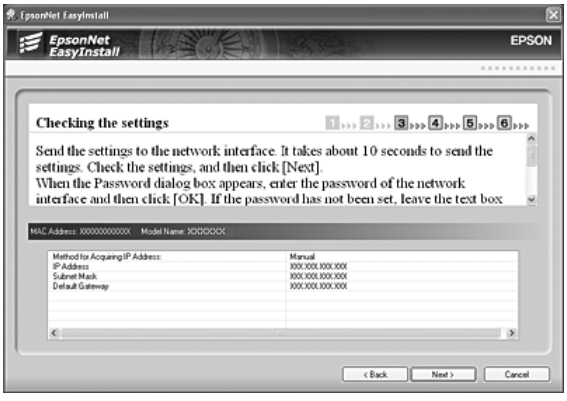
6. EpsonNet EasyInstall starts. Select the printer and then click the **Next** button.



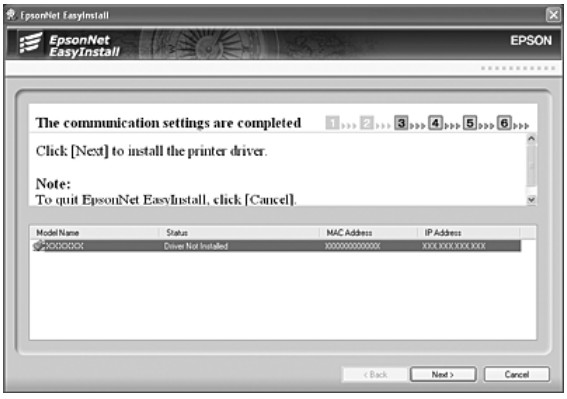
7. Select a method for specifying the IP address. If you select **Automatic**, DHCP becomes available and assigns an IP address automatically. If you want to set the IP address manually, select **Manual** and then enter the IP address, subnet mask, and default gateway. Click the **Next** button.



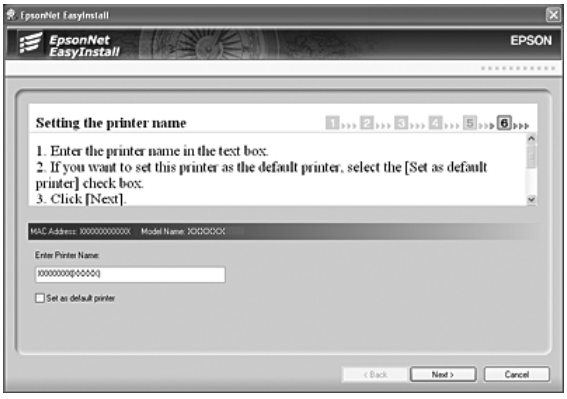
8. Confirm the settings you have made, and then click the **Next** button.



9. Select the printer with its IP address you have just set, and then click the **Next** button to install the printer driver.

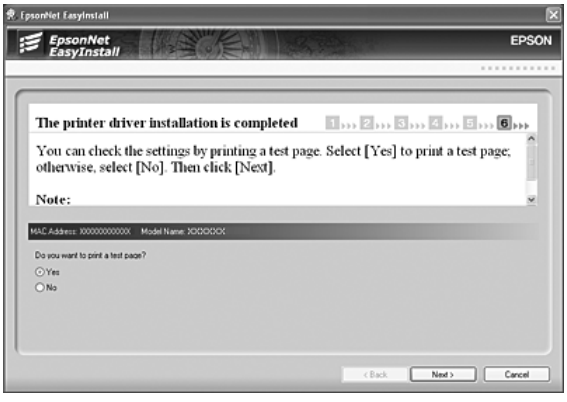


10. Enter the printer name. If you want to set the printer as the default printer, select the **Set as default printer** check box. Click the **Next** button.

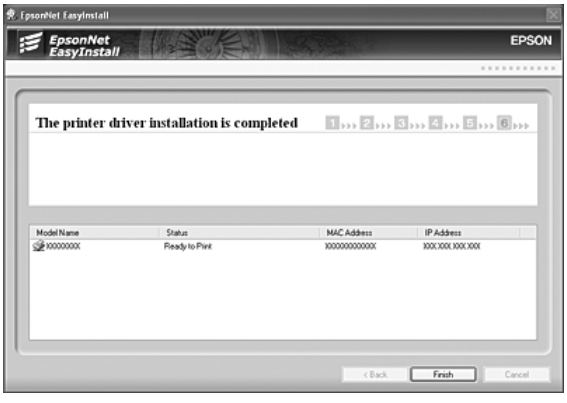


Note:
If the following screen appears, click the ***Unblock*** *button.*

11. Select **Yes** to print a test page; otherwise, select **No**. Click the **Next** button.



12. Click the **Finish** button, and then follow the on-screen instructions to complete the installation.



13. Click the **Exit** button.

Now you can use the printer on the TCP/IP network.

Configuring the Network Interface (For Macintosh Users)

Configure the network interface for use on the TCP/IP network and install the printer driver on your computer.

Note:
This section explains the instructions using Mac OS X. The instructions are almost the same for Mac OS 9.

1. Insert the Software CD-ROM in the CD-ROM drive.

   EPSON folder opens automatically.

2. Double-click the appropriate OS icon in the **EPSON** folder.

3. Make sure that all applications are closed, and then click the **Easy Install** button.

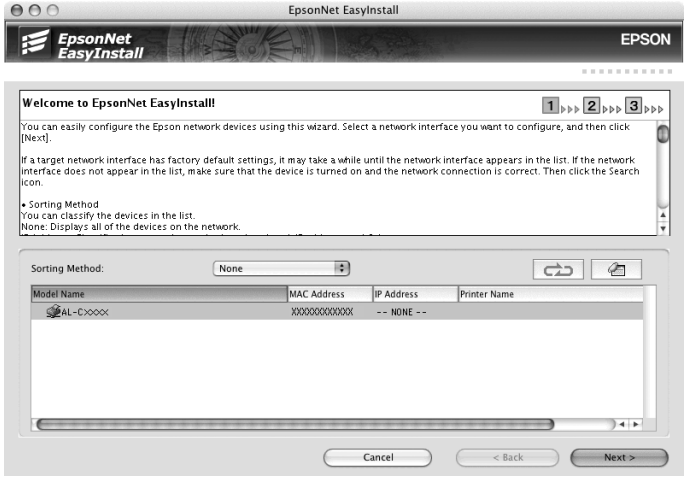
4. Select **Network**.

   Note:
   *If your printer is connected to your computer with a USB cable or a parallel cable, select **Local**, and then follow the on-screen instructions.*

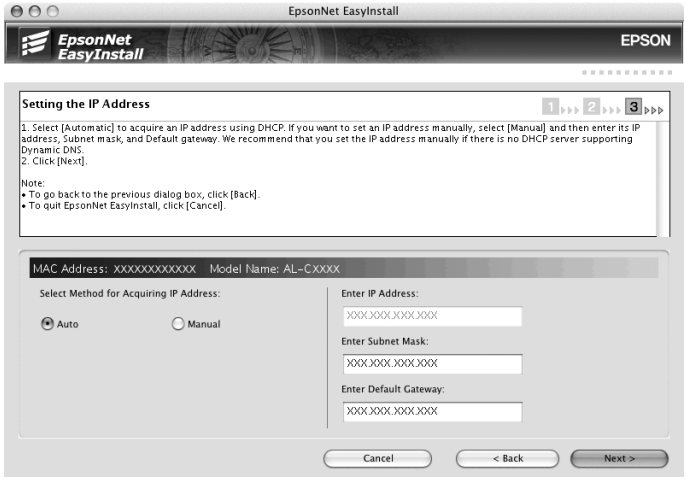
5. Click the **Install** button, and then follow the on-screen instructions.

Note:
This screen may vary depending on the printer.

6. EpsonNet EasyInstall starts. Select the printer and then click the **Next** button.

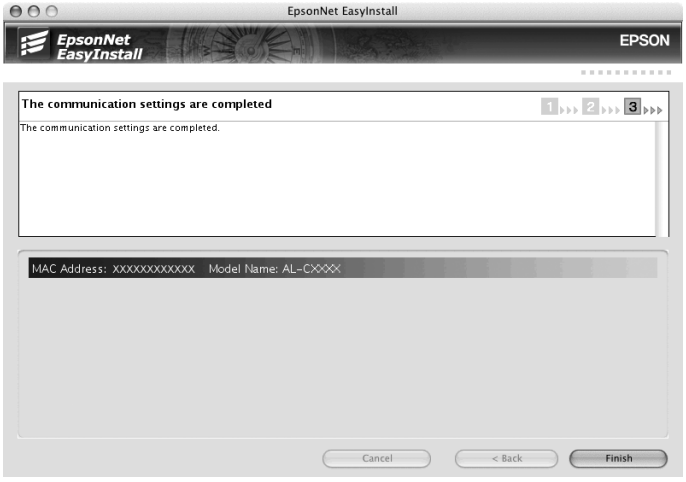


7. Select a method for specifying the IP address. If you select **Automatic**, DHCP becomes available and assigns an IP address automatically. If you want to set the IP address manually, select **Manual** and then enter the IP address, subnet mask, and default gateway. Click the **Next** button.

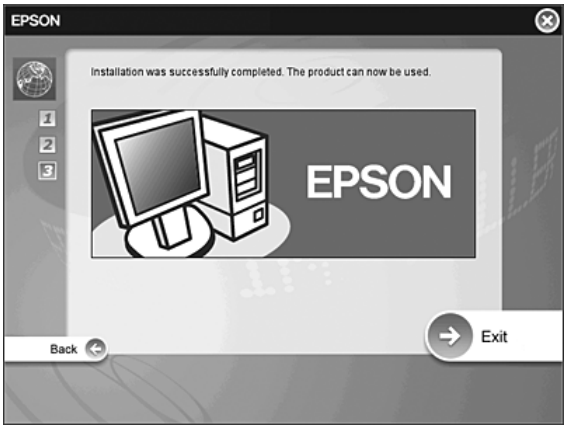


8. Check the settings you have made, and then click the **Next** button.

9. Click the **Finish** button, and then follow the on-screen instructions to complete the installation.



10. Click the **Exit** button.



Then you need to setup the printer. Follow the steps below.

Setting Up the Printer

Mac OS X

1. Open the **Applications** folder.
2. Open the **Utilities** folder.
3. Open **Print Center** (for Mac OS X 10.2 or below) or **Printer Setup Utility** (for Mac OS X 10.3 or later), and then click **Add**.
4. For Mac OS X 10.4, select the printer model that is connected with Bonjour.
   For Mac OS X 10.2 or 10.3, select **Rendezvous** from the drop down list, and then select the printer model from the list.

   Note:
   *For Mac OS X 10.4, if your printer is not displayed with the desired connection, click **More Printers**, select the desired connection from the drop down list, and then select the printer model.*
5. Click **Add**.

Now you can use the printer on the TCP/IP network.

Note:
If your product supports the scanning function, see the product's User's Guide to make the settings.

Mac OS 9

1. Open **Chooser** from the Apple menu.
2. Click the printer icon.
3. Select the zone containing the printer.
4. Select the printer name from the list.
5. Make sure **AppleTalk** is active.
6. Close **Chooser**.

Now you can use the printer on the TCP/IP network.

Installing the Printer Driver

About Installing the Printer Driver

To print to the network printer, you need to install the printer driver on the computer. See the section in this chapter appropriate for your operating system.

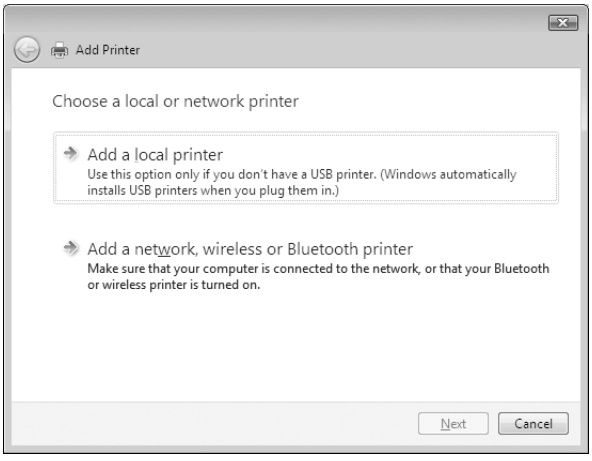
Windows Vista

For Windows Vista, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000/NT 4.0 Users" on page 146.

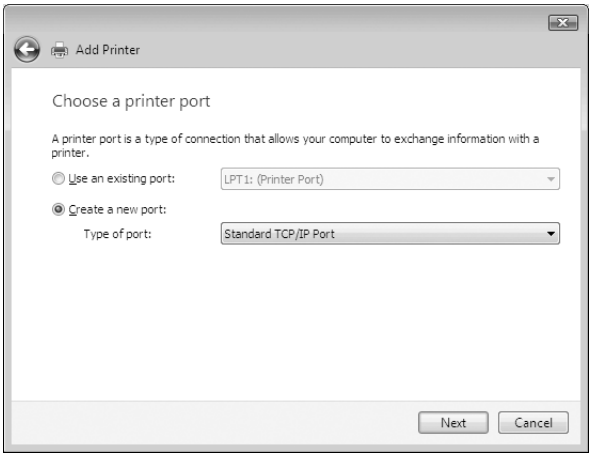
LPR printing

Note:
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 145 for details.

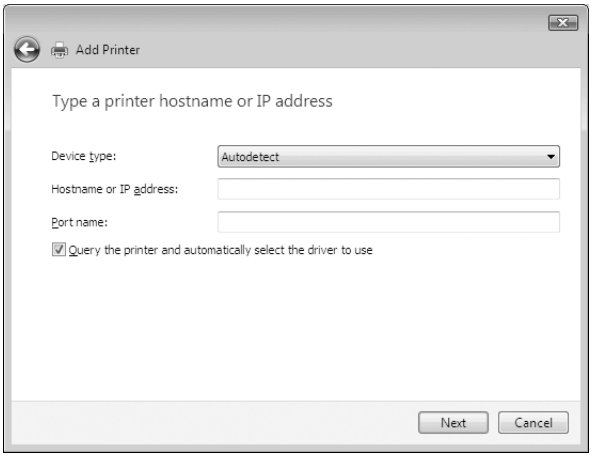
1. Click **Start**, **Control Panel**, and then **Printer**.
2. Click **Add a printer** to start the Add Printer wizard.
3. Click **Add a local printer**.



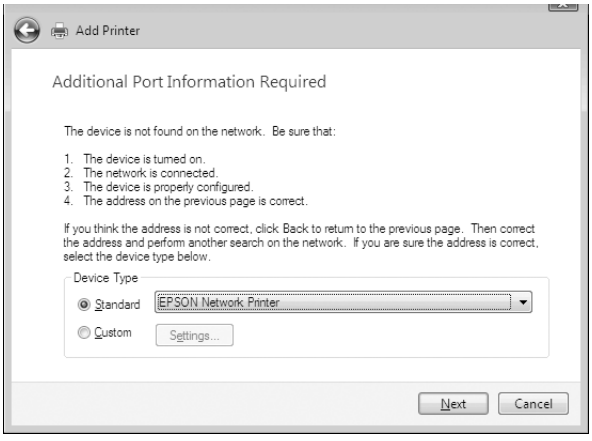
4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



7. Click **Finish**.

8. See "Installing a printer driver" on page 57 to install the printer driver.

Internet printing

1. Click **Start**, **Control Panel**, and then **Printer**.

2. Click **Add a printer** to start the Add Printer wizard.

3. Click **Add a network, wireless or Bluetooth printer**.

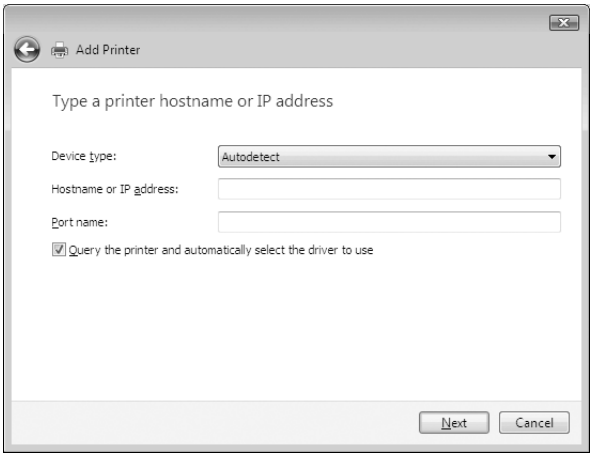
4. Click **The printer that I want isn't listed**.

5. Select the **Add a printer using a TCP/IP address or hostname** radio button and then click **Next**.

6. Enter the URL of the target device to the **Hostname** or **IP address** box using the format below. The URL should be the same as the URL you set on EpsonNet Config's IPP configuration page.

   http://IP address of network interface:631/Printer name

Example: http://192.168.100.201:631/EPSON_IPP_Printer



Note:
To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for details.

7. Follow the on-screen instructions to set up the device. See "Installing a printer driver" on page 57 if necessary.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the device.
2. Close the EPSON Software Installation screen if it appears.
3. Click the **Have Disk** button. The Install From Disk dialog box appears.
4. Click **Browse**.
5. Select the CD-ROM drive for Drives, and double-click the **WINVISTA_XP_2K** folder. Click **Open**.
6. Click **OK** in the Install From Disk dialog box.
7. Select the model name of the device, and then click **Next**.

   Note:
   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

Using the NET USE command

If you are running Windows Vista/XP/2000/Server 2003/NT and using NetBIOS to connect to the device, we recommend that you use the NET USE command, as follows:

1. Click **Start**, click **Control Panel**, and then click **View network status and tasks** or double-click **Network and Sharing Center**.

2. Click **View Status**, and then click the **Properties** button.

   Note:
   *If the User Account Control screen appears, click the **Continue** button.*

3. Check that **Client for Microsoft Networks** is installed. If it is not installed, click **Install** to install it.

4. Run the command prompt and enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

2. Right-click the printer icon and then select **Properties**.

3. Click the **Ports** tab and then select the port you have set with the NET USE command.

Windows XP

For Windows XP, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000/NT 4.0 Users" on page 146.

LPR printing

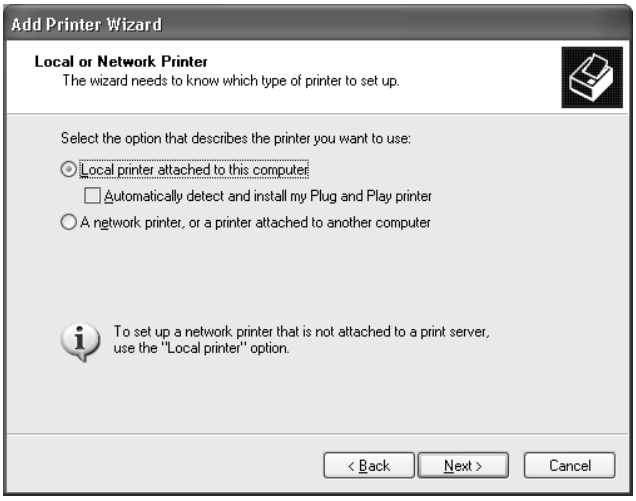
Note:
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 145 for details.

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

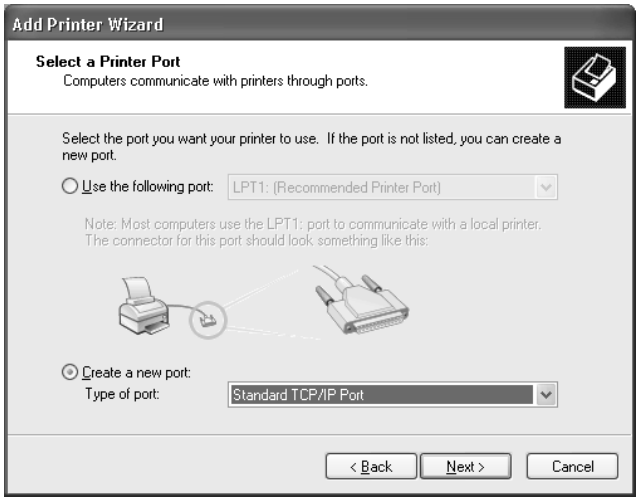
2. Under **Printer Tasks**, click **Add a printer** to start the Add Printer wizard, and then click **Next**.

3. Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

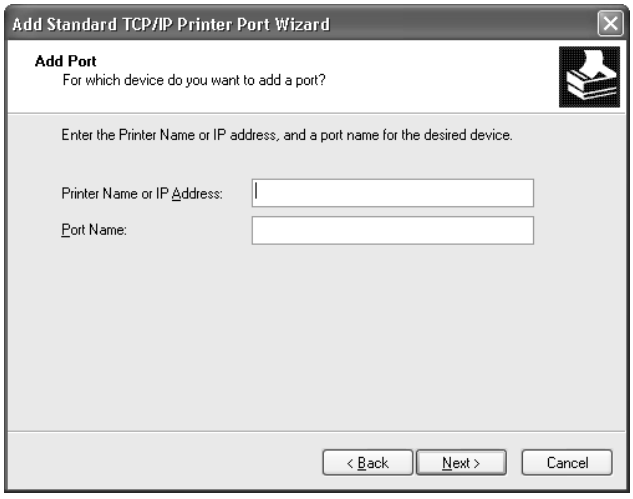
   Note:
   *You must clear the **Automatically detect and install my Plug and Play printer** check box because the printer is attached directly to the network, not to a Windows XP computer.*



4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.

7. Click **Finish**.

8. See "Installing a printer driver" on page 57 to install the printer driver.

Internet printing

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

2. Under **Printer Tasks**, click **Add a printer** to start the Add Printer wizard, and then click **Next**.

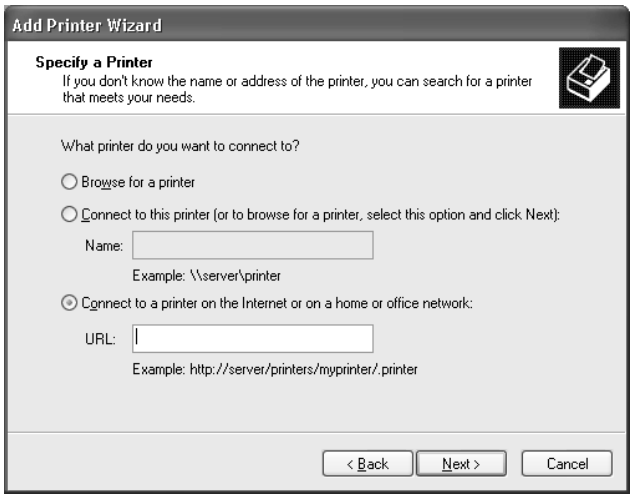
3. Click **A network printer, or a printer attached to another computer**, and then click **Next**.

4. Select the **Connect to a printer on the Internet or on a home or office network** radio button.

5. Enter the URL of the target printer using the format below. The URL should be the same as the URL you set on EpsonNet Config's IPP configuration page.

   http://IP address of printer:631/Printer name

Example: http://192.168.100.201:631/EPSON_IPP_Printer



Note:
To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for details.

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 57 if necessary.

Microsoft Network Shared printing

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

2. Under **Printer Tasks**, click **Add a printer** to start the Add Printer wizard, and then click **Next**.

3. Click **A network printer, or a printer attached to another computer**, and then click **Next**.

4. Select the **Browse for a printer** radio button, and then click **Next**.

5. Enter the following in the Printer box or select the printer you want to use from the Shared printers list box, and then click **Next**.

   \\NetBIOS name of network interface\Device name of network interface

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 57 if necessary.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the printer.
2. Close the Software Installation screen if it appears.
3. Click the **Have Disk** button. The Install From Disk dialog box appears.
4. Click **Browse**.
5. Select the CD-ROM drive for Drives, and double-click the **WINVISTA_XP_2K** or **WINXP_2K** folder. Click **Open**.
6. Click **OK** in the Install From Disk dialog box.
7. Select the model name of the printer, and then click **Next**.

   Note:
   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

   When you print using Microsoft Network Shared printing in the Windows XP/Server 2003/2000/NT environment, see "Using the NET USE command" on page 57 for more details.

Using the NET USE command

If you are running Windows XP/Server 2003/2000/NT and using NetBIOS to connect to the printer, we recommend that you use the NET USE command, as follows:

1. Click **Start**, click **Control Panel**, click **Network and Internet Connections**, and then select **Network Connections**.
2. Under **LAN or High-Speed Internet**, click the **Local Area Connection** icon.
3. Under **Network Tasks**, click **Change settings of this connection**.
4. Check that **Client for Microsoft Networks** is installed. If it is not installed, click **Install** to install it.
5. Run the command prompt and enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

2. Right-click the printer icon and then select **Properties**.

3. Click the **Ports** tab and then select the port you have set with the NET USE command.

Windows Me/98

For Windows Me/98, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Me/98/95 Users" on page 153.

LPR printing

Since Windows Me/98 does not support LPR, standard TCP/IP printing cannot be used. However, you can print via TCP/IP using the EpsonNet Print utility included on the Software CD-ROM. First, install EpsonNet Print. Then, install the printer driver. See "About EpsonNet Print" on page 145 for more details.

Internet printing (Windows 98)

Internet printing is possible by using the EpsonNet Internet Print utility included on the Software CD-ROM. First, install EpsonNet Internet Print. Then, install the printer driver and set the printer port. See "About EpsonNet Internet Print" on page 159 for more details.

Internet printing (Windows Me)

Installing the IPP client

The IPP client must be installed on your computer. Follow the steps below to install it.

1. Insert the Windows Me CD-ROM.

2. Select the **add-ons** folder, and then select the **IPP** folder.

3. Double-click **wpnpins.exe**. Then follow the on-screen instructions.

4. Click **OK** to restart your computer.

Setting up the printer

Connect your computer to a printer through IPP.

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click **Add Printer**, and then click **Next**.
3. Select the **Network Printer** radio button, and then click **Next**.
4. Type the URL of the printer, and then click **Next**.

   http://IP address of network interface:631/printer name

   Example: http://192.168.100.201:631/EPSON_IPP_Printer

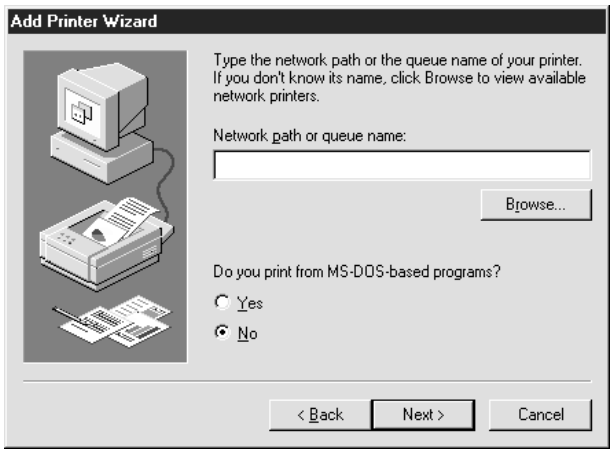
   Note:
   To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for details.
5. See "Installing a printer driver" on page 60 to install the printer driver.

Microsoft Network Shared printing

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click **Add Printer**, and then click **Next**.
3. Select the **Network Printer** radio button, and then click **Next**.

   \\NetBIOS name of network interface\Device name of network interface

4. Click **Browse**, and then select the network path from the list. If you cannot browse, enter the following in the Network path or queue name box.



5. The Add Printer wizard appears. Click **Next**.

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 60 to install the printer driver.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Click the **Have Disk** button. The Install From Disk dialog box appears.

4. Click **Browse**.

5. Select the CD-ROM drive for Drives, and then double-click the **WIN9X** folder. Click **OK**.

6. Click **OK** in the Install From Disk dialog box.

7. Select the model name of the printer, and then click **Next**.

   Note:
   If the Add Printer wizard prompts you to select either ***Keep existing driver*** *or* ***Replace existing driver****, be sure to select the* ***Replace existing driver*** *radio button.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

   When you print using Microsoft Network Shared printing in the Windows XP/Server 2003/2000/NT environment, see "Using the NET USE command" on page 61 for more details.

Using the NET USE command

If you are running Windows XP/Server 2003/2000/NT and using NetBIOS to connect to the printer, we recommend that you use the NET USE command, as follows:

1. Right-click the **Network Neighborhood** icon or **My Network Places** icon and then select **Properties**.

2. Check that **Client for Microsoft Networks** is in the Components list. If it is not installed, click **Add** to install it.

3. Run the command prompt and enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the printer icon and select **Properties**.

3. Click the **Details** tab and select the port you have set with the NET USE command.

Windows Server 2003

For Windows Server 2003, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See “For Windows Vista/XP/Server 2003/2000/NT 4.0 Users” on page 146.

LPR printing

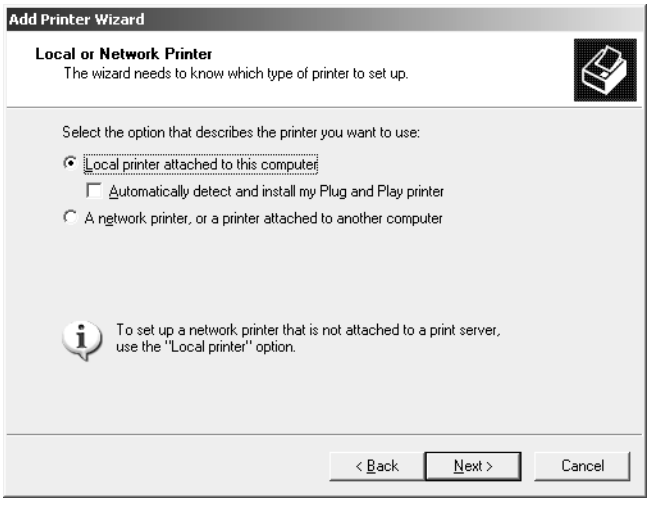
Note:
If you are using EpsonNet Print, the setup procedure is different. See “About EpsonNet Print” on page 145 for details.

1. Click **Start**, and then select **Printers and Faxes**.

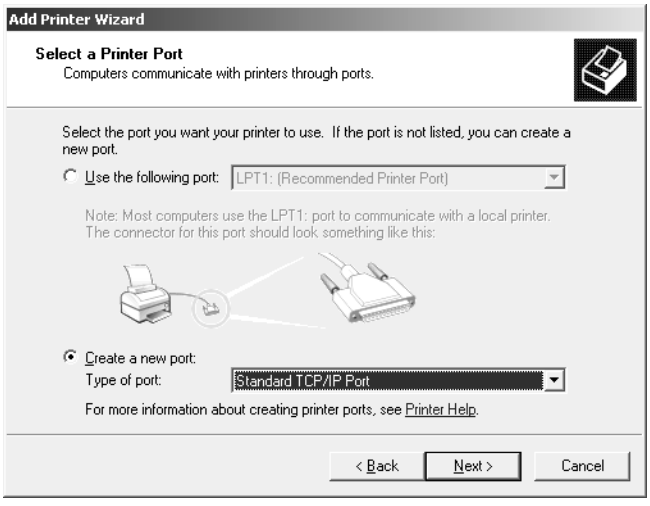
2. Double-click the **Add Printer** icon to start the Add Printer wizard, and then click **Next**.

3. Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

Note:
You must clear the ***Automatically detect and install my Plug and Play printer*** *check box because the printer is attached directly to the network, not to a computer.*

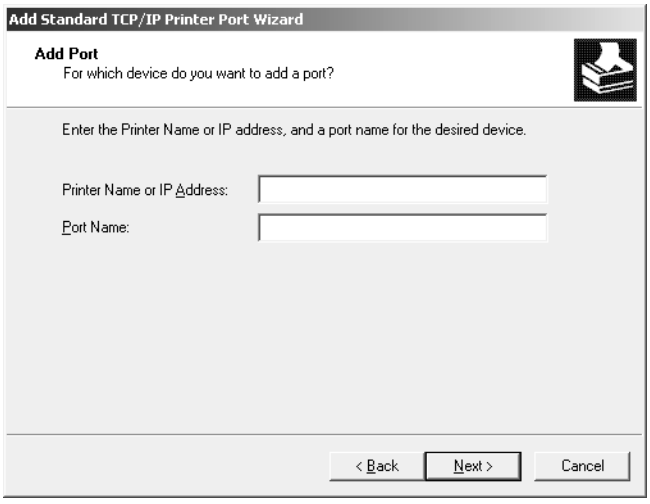


4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Click **Next**.

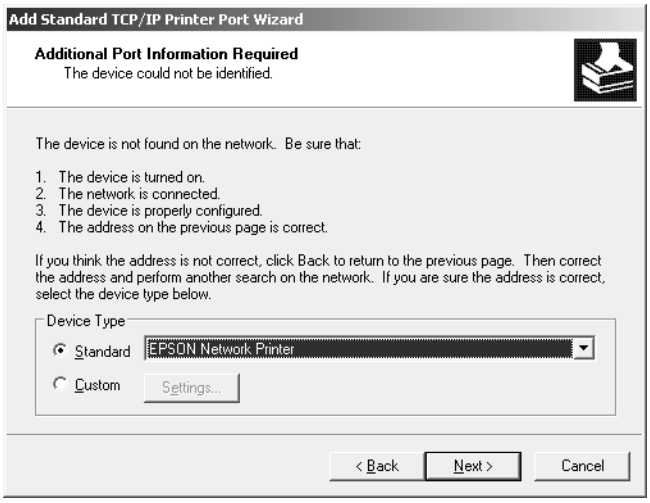


5. When Add Standard TCP/IP Printer Port Wizard dialog box appears, click **Next**.

6. Enter the IP address of the network interface and then click **Next**.



7. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



8. Click **Finish**.

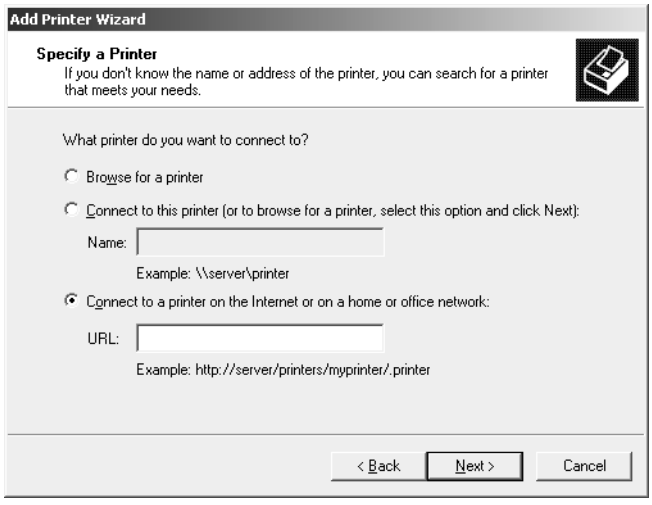
9. See “Installing a printer driver” on page 65 to install the printer driver.

Internet printing

1. Click **Start**, and then select **Printers and Faxes**.
2. Double-click the **Add Printer** icon to start the Add Printer wizard, and then click **Next**.
3. Select **A network printer, or a printer attached to another computer**, and then click **Next**.
4. Select the **Connect to a printer on the Internet or on a home or office network** radio button.
5. Enter the URL of the target printer using the format below. The URL must be the same URL you set on EpsonNet Config's IPP configuration page.

   http://IP address of printer:631/Printer name

   Example: http://192.168.100.201:631/EPSON_IPP_Printer



   Note:
   To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for details.

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 65 if necessary.

Microsoft Network Shared printing

1. Click **Start**, and then select **Printers and Faxes**.
2. Double-click the **Add Printer** icon to start the Add Printer wizard, and then click **Next**.
3. Click **A network printer, or a printer attached to another computer**, and then click **Next**.

4. Select the **Browse for a printer** radio button, and then click **Next**.

5. Enter the following in the Printer box or select the printer you want to use from the Shared printers list box. Click **Next**.

   \\NetBIOS name of network interface\Device name of network interface

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 65 if necessary.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Click the **Have Disk** button. The Install From Disk dialog box appears.

4. Click **Browse**.

5. Select the CD-ROM drive for Drives, and double-click the **WINVISTA_XP_2K**, **WINXP_2K**, or **WIN2000** folder. Click **Open**.

6. Click **OK** in the Install From Disk dialog box.

7. Select the model name of the printer, and then click **Next**.

   Note:
   If the Add Printer wizard prompts you to select either ***Keep existing driver*** *or* ***Replace existing driver****, be sure to select the* ***Replace existing driver*** *radio button.*

8. Click **Finish** and then follow the on-screen instructions to complete the setup.

   When you print using Microsoft Network Shared printing in the Windows XP/Server 2003/2000/NT environment, see "Using the NET USE command" on page 65 for more details.

Using the NET USE command

If you are running Windows XP/Server 2003/2000/NT and using NetBIOS to connect to the printer, we recommend that you use the NET USE command, as follows:

1. Click **Start**, point to **Control Panel**, and then select **Network Connections**. Click **Local Area Connections**.

2. Click the **Properties** button.

3. Check that **Client for Microsoft Networks** is installed. If necessary, click **Install** to install it.

4. Run the command prompt and then enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, and then select **Printers and Faxes**.

2. Right-click the printer icon and then select **Properties**.

3. Click the **Ports** tab and then select the port you have set using the NET USE command.

Windows 2000

For Windows 2000, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000/NT 4.0 Users" on page 146.

LPR printing

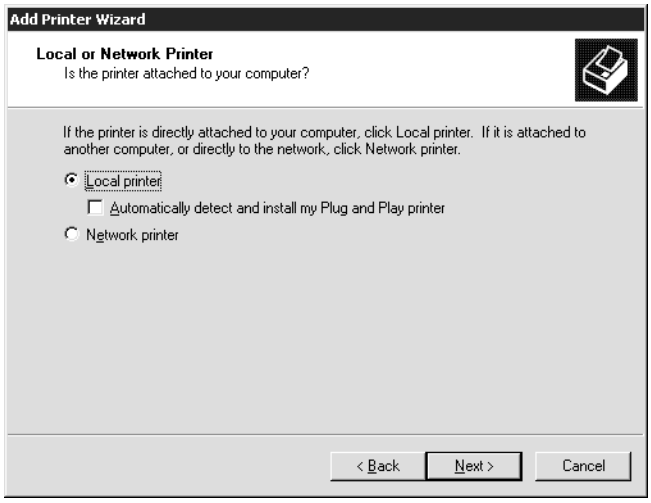
Note:
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 145 for details.

1. Click **Start**, point to **Settings**, and then select **Printers**.

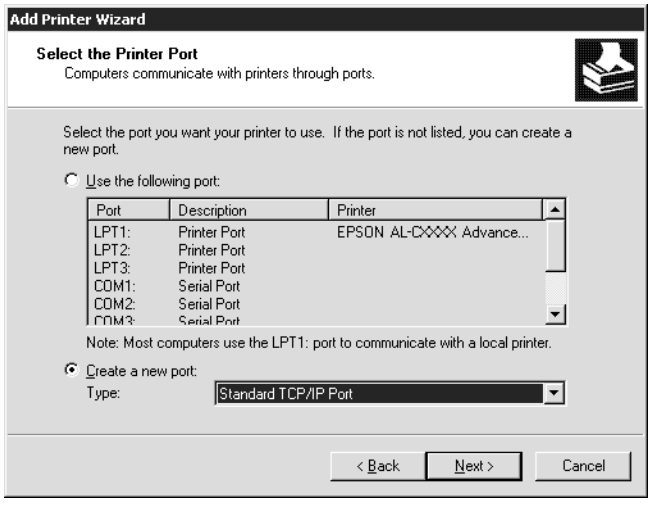
2. Double-click **Add Printer** to start the Add Printer wizard, and then click **Next**.

3. Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

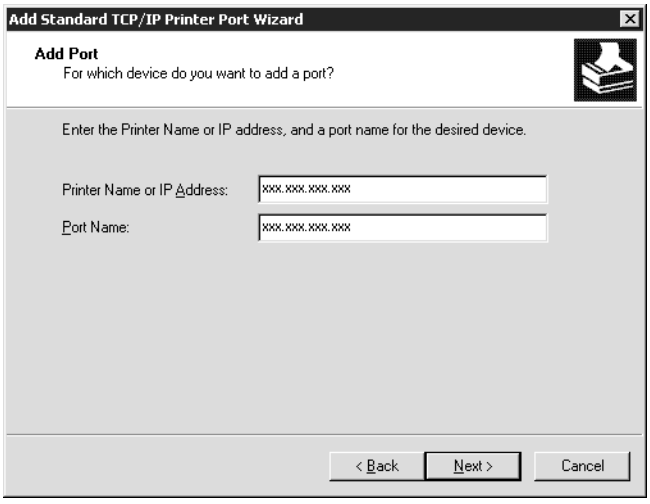
Note:
You must clear the ***Automatically detect and install my Plug and Play printer*** *check box because the printer is attached directly to the network, not to a Windows 2000 computer.*



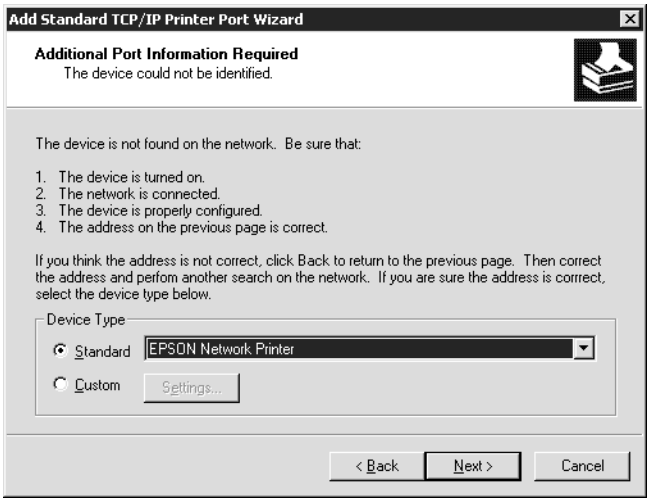
4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



7. Click **Finish**.

8. See “Installing a printer driver” on page 70 to install the printer driver.

Internet printing

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click **Add Printer** to start the Add Printer wizard, and then click **Next**.
3. Select the **Network printer** radio button and then click **Next**.
4. Select the **Connect to a printer on the Internet or on your intranet** radio button.
5. Enter the URL of the target printer using the format below. The URL should be the same as the URL you set on EpsonNet Config's IPP configuration page.

   http://IP address of printer:631/Printer name

   Example: http://192.168.100.201:631/EPSON_IPP_Printer

   Note:
   To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for details.
6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 70 if necessary.

Microsoft Network Shared printing

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click **Add Printer** to start the Add Printer wizard, and then click **Next**.
3. Select the **Network printer** radio button and then click **Next**.
4. Select the **Type the printer name, or click Next to browse for a printer** radio button.
5. Enter the following in the Name box or click **Next** to browse for a printer.

   \\NetBIOS name of network interface\Device name of network interface
6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 70 if necessary.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the printer.
2. Close the Software Installation screen if it appears.
3. Click the **Have Disk** button. The Install From Disk dialog box appears.
4. Click **Browse**.
5. Select the CD-ROM drive for Drives, and double-click the **WINVISTA_XP_2K**, **WINXP_2K**, or **WIN2000** folder. Click **Open**.
6. Click **OK** in the Install From Disk dialog box.
7. Select the model name of the printer, and then click **Next**.

   Note:
   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

   When you print using Microsoft Network Shared printing in the Windows XP/Server 2003/2000/NT environment, see "Using the NET USE command" on page 70 for more details.

Using the NET USE command

If you are running Windows XP/Server 2003/2000/NT and using NetBIOS to connect to the printer, we recommend that you use the NET USE command, as follows:

1. Right-click the **My Network Places** icon and then select **Properties**.
2. Right-click the **Local Area Connections** icon and then select **Properties**.
3. Check that **Client for Microsoft Networks** is in the Components list. If it is not installed, click **Install** to install it.
4. Run the command prompt and enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Right-click the printer icon and then select **Properties**.
3. Click the **Ports** tab and then select the port you have set with the NET USE command.

Windows NT 4.0

For Windows NT 4.0, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000/NT 4.0 Users" on page 146.

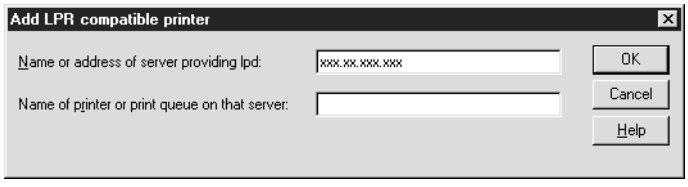
LPR printing

Note:
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 145 for details.

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click the **Add Printers** icon.
3. Select the **My Computer** radio button, and then click **Next**.
4. Click **Add Port** in the Add Printer wizard dialog box.
5. Select **LPR Port** from the Available Printer Port list, and then click **New Port**.

   Note:
   *You cannot use the **Lexmark TCP/IP Network Port** with this network interface.*

6. Enter the IP address of the network interface in the first text box and the printer name in the second text box. Click **OK**.



7. In the Printer Ports dialog box, click **Close**.

8. In the Add Printer Wizard dialog box, click **Next**.

9. See "Installing a printer driver" on page 72 to install the printer driver.

Internet printing

Internet printing is possible by using the EpsonNet Internet Print utility included on the Software CD-ROM. First, install EpsonNet Internet Print. Then, install the printer driver and set the printer port. See "About EpsonNet Internet Print" on page 159 for more details.

Microsoft Network Shared printing

1. Click **Start**, point to **Settings**, and then select **Printers**.

2. Double-click **Add Printer**.

3. Select the **Network printer server** radio button and then click **Next**. The Connect to Printer dialog box appears.

4. Select the printer you want to configure from the **Shared Printers** list. If you cannot select the printer, enter the following in the Printer box:

   \\NetBIOS name of network interface\Device name of network interface

5. Click **OK**.

6. Follow the on-screen instructions to set up the printer. See "Installing a printer driver" on page 72 if necessary.

Installing a printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Click the **Have Disk** button. The Install From Disk dialog box appears.

4. Click **Browse**.

5. Select the CD-ROM drive for Drives, and then double-click the **WINNT40** folder. Click **Open**.

6. Click **OK** in the Install From Disk dialog box.

7. Select the model name of the printer, and then click **Next**.

Note:

- ❏ *Announce the share name to your clients so that they know the share name of the printer they want to use.*
- ❏ *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

   When you print using Microsoft Network Shared printing in the Windows XP/Server 2003/2000/NT environment, see "Using the NET USE command" on page 73 for more details.

Using the NET USE command

If you are running Windows XP/Server 2003/2000/NT and using NetBIOS to connect to the network interface, we recommend that you use the NET USE command, as follows:

1. Check that the following services are installed.

   Right-click the **Network Neighborhood** icon on the desktop and select **Properties**. Click the **Services** tab and check that **Server** or **Workstation** is listed.

2. If it is not installed, click **Add**.

3. Run the command prompt and enter the following command.

   NET USE printer port: \\NetBIOS name of network interface\Device name of network interface

Selecting the port

1. Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the printer icon and then select **Properties**.

3. Click the **Ports** tab and then select the port you have set with the NET USE command.

Macintosh

Follow the steps below to set a printer.

Note:
Make sure that the printer driver is installed on your Macintosh before following the steps below. See the manual shipped with your printer for instruction on how to install the printer driver.

Mac OS X

Bonjour/Rendezvous printing

1. Open the **Applications** folder.
2. Open the **Utilities** folder.
3. Open **Print Center** (for Mac OS X 10.2 or below) or **Printer Setup Utility** (for Mac OS X 10.3 or later), and then click **Add**.
4. For Mac OS X 10.4, select the printer model that is connected with Bonjour.
   For Mac OS X 10.2 or 10.3, select **Rendezvous** from the drop down list, and then select the printer model from the list.
5. Click **Add**.

TCP/IP printing

1. Open the **Applications** folder.
2. Open the **Utilities** folder.
3. Open **Print Center** (for Mac OS X 10.2 or below) or **Printer Setup Utility** (for Mac OX 10.3 or later), and then click **Add**.
4. For Mac OS X 10.4, click **More Printers**, select **EPSON TCP/IP** from the drop down list, and then select the printer model.
   For Mac OS X 10.2 or 10.3, select **EPSON TCP/IP** from the drop down list, and then select the printer model from the list.
5. Click **Add**.

AppleTalk printing

1. Open the **Applications** folder.
2. Open the **Utilities** folder.
3. Open **Print Center** (for Mac OS X 10.2 or below) or **Printer Setup Utility** (for Mac OS X 10.3 or later), and then click **Add**.
4. For Mac OS X 10.4, click **More Printers**, select **EPSON Apple Talk** from the drop down list, select the zone from the drop down list, and then select the printer model.
   For Mac OS X 10.2 or 10.3, select **EPSON Apple Talk** from the drop down list, select the zone from the drop down list, and then select the printer model from the list.
5. Click **Add**.

Mac OS 9

AppleTalk printing

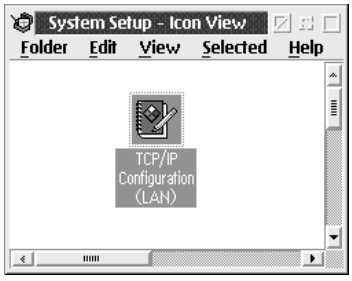
1. Open **Chooser** from the Apple menu.
2. Click the printer icon.
3. Select the zone containing the printer.
4. Select the printer name from the list.
5. Make sure **AppleTalk** is active.
6. Close **Chooser**.

OS/2

This section explains how to configure and use the network interface with an IBM OS/2 System, which includes OS/2 Warp 3 and 4 (OS/2 Warp Connect and OS/2 Warp Server).

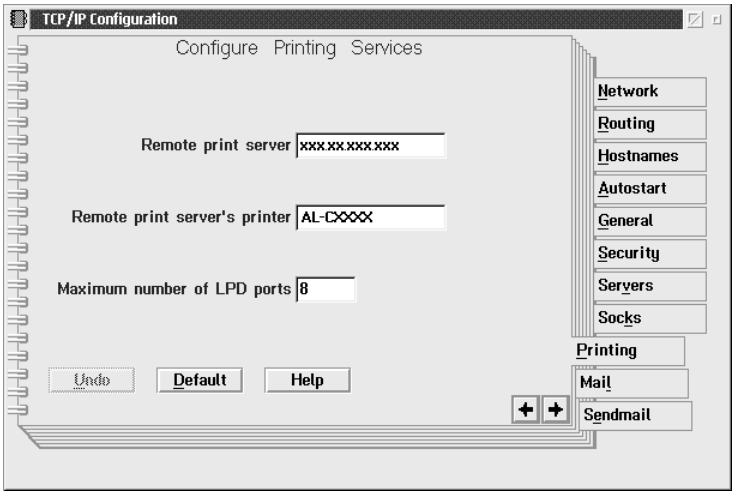
LPR printing

1. Double-click the OS/2 system folder, then the **System Setup** folder, and then double-click the **TCP/IP Configuration** icon.



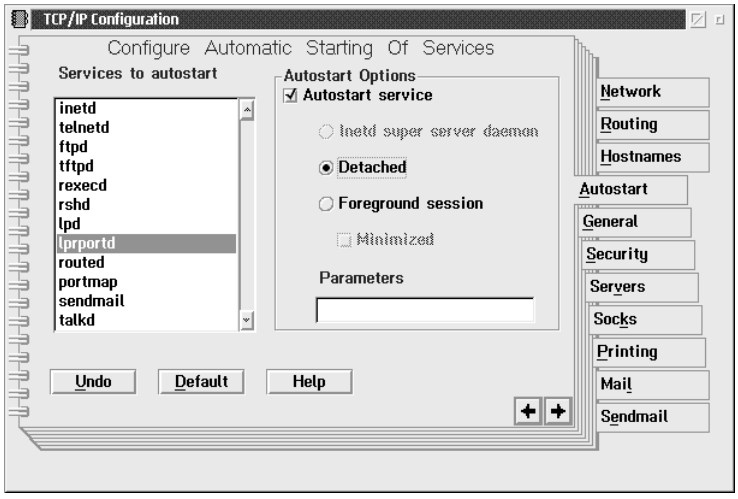
2. Click the **Printing** tab.

3. Enter the IP address of the network interface in the Remote print server box and the name of the remote print server's printer in the second text box. Enter a value of 1 or greater in the Maximum number of LPD ports box.



4. Click the **Autostart** tab.

5. Select **lprportd** from the Services to autostart list. Check the Autostart service check box, and select the **Detached** radio button.



6. Save the settings you made in the TCP/IP Configuration dialog box, and restart your computer.

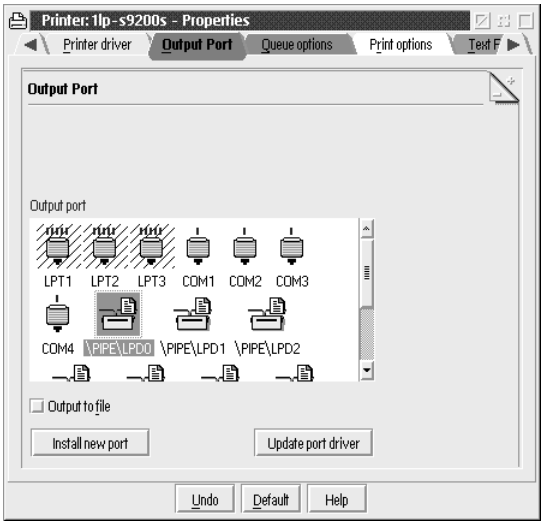
Setting up your printer

1. Double-click **Template** from the OS/2 System folder.

2. Drag **Printer** to your desktop to create a printer.

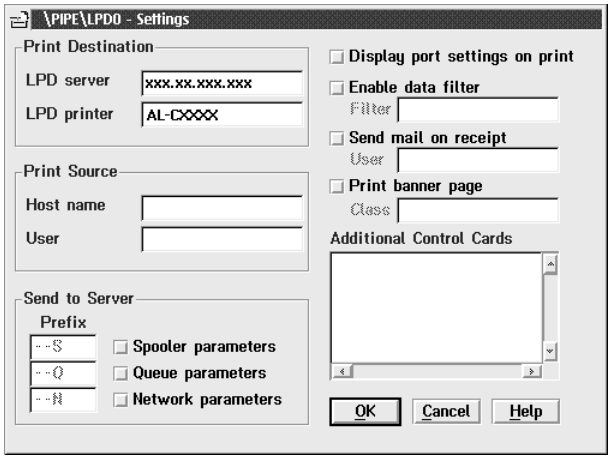
3. Double-click the **Printer** icon.

4. Select **Properties** from the control menu, then click the **Output Port** tab.



5. From the Output Port list box, select one from \PIPE\LPD0 to \PIPE\LPDn (where n is the maximum number of LPD ports). The \PIPE\LPD -Settings dialog box will appear.

6. Enter the IP address of the network interface in the LPD server box. Enter the printer name set in step 2 in the LPD printer box.



7. Close the Printer icon to exit printer configuration.

NetBEUI printing

1. Be sure that IBM OS/2 NetBIOS is installed on your computer.
2. To create a printer, double-click the target printer icon to open the Properties dialog box. Then click the **Output Port** tab.
3. Select the port.
4. Connect to the printer from the command line.

   Example: Connect the printer to LPT1.

   net use LPT1: \\NetBIOS name of network interface\ Device name of network interface

Note:
To change the NetBIOS name and device name, use EpsonNet Config running on Windows.

Settings for NetWare Users

Overview

If you are using a printer that supports NetWare queue-based printing, see "For Users of Printers Supporting NetWare Queue-Based Printing" on page 80 for detailed information.

If you are using a printer that does not support NetWare queue-based printing, see "For Users of Printers Not Supporting NetWare Queue-Based Printing" on page 102 for detailed information.

Note:
To find out whether your printer supports NetWare queue-based printing, see the User's Guide.

For Users of Printers Supporting NetWare Queue-Based Printing

This section explains how to configure the network interface for NetWare. First, you need to set up the printer in a NetWare environment, and then configure the network interface using EpsonNet Config.

Introduction to NetWare settings

Supported systems

Server environment

- ❏ NetWare 3.1/3.11/3.12/3.2 (Bindery)
- ❏ NetWare 4.1/4.11/4.2 (NDS, Bindery emulation)
- ❏ IntranetWare (NDS, Bindery emulation)
- ❏ NetWare 5.0/5.1 (NDS, NDPS)
- ❏ NetWare 6.0 (NDS, NDPS)

Client environment

The client environment must be supported by NetWare. The clients are able to use the printer driver mounted on the network interface.

The following Novell Client is supported.

- ❏ For Windows 98:
  Novell Client 3.4 or later for Windows 98/95
- ❏ For Windows 2000/NT 4.0:
  Novell Client 4.8 or later for Windows 2000/NT 4.0
- ❏ For Windows XP:
  Novell Client 4.9 or later for Windows XP

About modes

You can choose either the Print Server, Remote Printer, or Standby mode. We recommend that you use the Print Server mode unless the number of users exceeds the limit.

Features of these modes are described below.

Print Server mode (NDS/Bindery Print Server):

- ❏ High-speed printing with direct printing
- ❏ Uses the NetWare user account

- ❏ Can connect up to 8 file servers simultaneously
- ❏ Can register up to 32 print queues

Remote Printer mode:

- ❏ A NetWare user account is not required.
- ❏ A print server is needed to control the remote printer.
- ❏ Can attach up to 16 printers for NetWare 3.x, and up to 255 for NetWare 4.x or later.

Note:
When you turn on the printer, the user account is temporarily accessed in the Remote Printer mode. If there is no user account available, turn on the printer before connecting the client to the network.

Standby mode (factory default mode):

The Standby mode is the default mode. This mode disables all NetWare related functions. Use the Standby mode when you are not using the network interface in a NetWare environment.

Instructions for using NetWare

Printing a text file

When you print a text file using the NPRINT command of NetWare or DOS, redirection, misconversion or a gap in characters may occur depending on the client environment.

IPX routing protocol "NLSP"

It is possible to set the IPX routing protocol "NLSP" from NetWare 4.x or later; however, the network interface does not support NLSP. RIP/SAP controls the communication.

You can select the routing protocol from a) NLSP with RIP/SAP Compatibility, or b) RIP/SAP Only. If you remove the bind of RIP or SAP when NLSP with RIP/SAP Compatibility is specified, the network interface then cannot communicate with the file server and NDS. (See "Protocols" and "Bindings" in NetWare's INETCFG utility.)

Bindery and NDS

- ❏ You can check the bindery context path from the server console by using the SET BINDERY CONTEXT command.
- ❏ If the bindery context path has not been set, or if you want to use the printing environment of another context from a non-NDS client, you need to specify the context for the bindery context. Use the SET BINDERY CONTEXT command to set the context in the AUTOEXEC.NCF file.

- ❏ You cannot use the bindery print server mode with EpsonNet Config if you are running Novell Client for Windows 95/98 version 3.00 or Novell Client for Windows NT version 4.50. To configure the network interface for bindery mode, use Novell IntranetWare Client or EpsonNet Config with Web Browser.

See your NetWare documentation for more information.

Time required to recognize the network interface

It takes up to two minutes for the NetWare server to recognize the network interface, after the printer is turned on. During this start-up time, the status sheet does not show the correct information.

Frame type

The same frame type should be used for the NetWare server and IPX router on the same network. If more than one frame type is used on the same network, bind all the frame types to the NetWare servers and IPX routers.

For NetWare 5.x

The IPX protocol must be installed (bound) on the NetWare 5.x server.

About modes

If the mode you have logged in is different from the mode you set for the network interface, a message appears when you try to configure the network interface for NetWare. If you do not want to change the current settings, click **Cancel** and log in again using the same mode set for the network interface.

Using Bindery Print Server (NetWare 3.x/4.x)

This section contains instructions on using the network interface in the Print Server mode on NetWare 3.x/4.x/IntranetWare with Bindery emulation.

Note:
The network interface in the Print Server mode of NetWare 3.x does not allow you to use the Print Server status display control with PCONSOLE.

1. Turn on your printer.

2. From any NetWare client, log in to the target NetWare server with supervisor privileges. You must log in with the bindery connection.

3. Configure the network interface using EpsonNet Config. See the EpsonNet Config User's Guide for details.

If NetWare objects are already created, you can also use EpsonNet Config with Web Browser. See "NetWare" on page 137 for details.

Using NDS Print Server (NetWare 4.x/5.x/6.0)

This section contains instructions for using the network interface in the Print Server mode on NetWare 4.x, IntranetWare, NetWare 5.x, or NetWare 6.0 with NDS mode.

1. Turn on your printer.
2. From any NetWare client, log in to the target context of the NDS tree as an ADMIN.
3. Configure the network interface using EpsonNet Config. See the EpsonNet Config User's Guide for details.

   If NetWare objects are already created, you can also use EpsonNet Config with Web Browser. See "NetWare" on page 137 for details.

Using Remote Printer Mode (NetWare 3.x)

For NetWare 3.x users, follow the steps below to make the printer environment with PCONSOLE.

Creating print queues in a file server

1. From any NetWare client, log in to the network with supervisor privileges.
2. Run PCONSOLE. From the Available Options screen, select **Print Queue Information** and press **Enter**.

3. Press the **Insert** key on your keyboard and enter the print queue name. Press **Enter**.

   Note:
   Since your clients need the print queue name you set here when they use the printer, announce the print queue name to your clients.

4. From the Print Queue list, select the print queue name that you just entered and press **Enter**. From the Print Queue Information list, select **Queue Users** and press **Enter**. Next, select **EVERYONE** from the list. If **EVERYONE** is not in the list, press **Insert** and select **EVERYONE** from the queue user list.

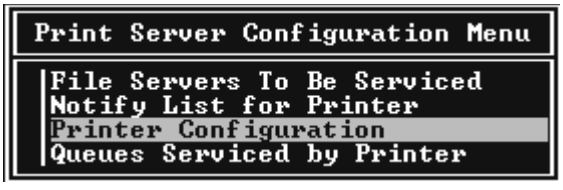
Creating a print server

1. From the Available Options screen, select **Print Server Information** and press **Enter**.

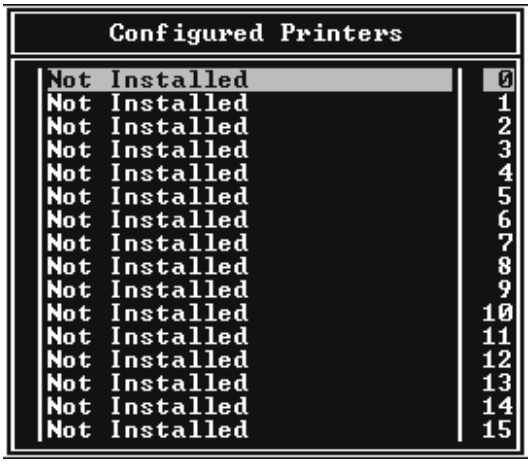
2. Press the **Insert** key on your keyboard and type the print server name. Press **Enter**. It is a good idea to write down the print server name for later use.

3. From the Print Server list, select the print server name that you just typed and press **Enter**. From the Print Server Information list, select **Print Server Configuration** and press **Enter**.

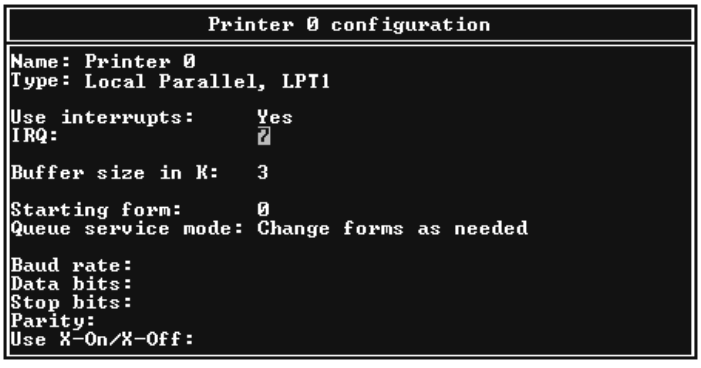
4. Select **Printer Configuration** from the Print Server Configuration Menu and press **Enter**.



5. From the Configured Printers list, select **Not Installed** (port number = 0) and press **Enter**.



6. From the Printer configuration screen, type the printer name. Highlight **Type** and press **Enter**. Select **Remote Parallel, LPT1** for Remote Printer mode.

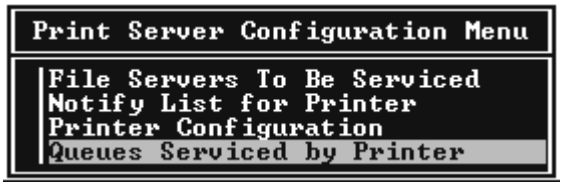


Note:
Be sure to select ***Remote Parallel, LPT1*** *for Remote Printer mode.*

7. Press **Esc**; then press **Enter** to save your changes.

8. Press **Esc**.

9. Select **Queues Serviced by Printer** from the Print Server Configuration menu and press **Enter**.



10. Select the printer that you want to use from the Defined Printers list and press **Enter**.

11. Press the **Insert** key and assign a queue to the print server port from the Available Queues list.

12. Specify a priority level between 1 to 10. One is top priority.

13. Press **Esc** to exit PCONSOLE.

Configuring for NetWare using EpsonNet Config

1. Turn on your printer.

2. Load the print server from the file server's system console which the print queue volume is set.
   >LOAD PSERVER print server name you set using PCONSOLE

3. Configure the network interface using EpsonNet Config. See the EpsonNet Config User's Guide for details.

   If NetWare objects are already created, you can also use EpsonNet Config with Web Browser. See "NetWare" on page 137 for details.

Using Bindery Remote Printer Mode (NetWare 4.x)

Follow the steps below to make the printer environment on NetWare 4.x and IntranetWare with Bindery emulation.

Note:

❏ *Assign Trusteeships for users if necessary.*

❏ *Be sure to use PCONSOLE to set the print queue and print server instead of using NWAdmin.*

Creating objects

1. From any NetWare client, log in to the server as an ADMIN. Make sure to log in with Bindery connection.

   Note:
   If the client using for this setting has been logged in with NDS mode, press F4 key while PCONSOLE is starting to switch to the bindery mode.

2. Run PCONSOLE. From the Available Options screen, select **Print Queues** and press **Enter**. Press **Insert** and type the print queue name. Press **Enter**.

   Note:
   Since your clients need the print queue name you set here when they use the printer, announce the print queue name to your clients.

3. From the Print Queue list, select the print queue name that you just entered and press **Enter**. From the Print Queue Information list, select **Queue Users** and press **Enter**. Next, select **EVERYONE** from the list. If **EVERYONE** is not in the list, press **Insert** and select **EVERYONE** from the queue user list.

4. From the Available Options screen, select **Print Servers** and press **Enter**. Press **Insert** and type the print server name. Press **Enter**.

5. Press **Esc** to exit PCONSOLE, and log out from the server.

6. Log in to the server as an ADMIN. Be sure to log in with NDS connection.

7. Start NWAdmin.

8. To create the Printer Object, click the container specified as the Bindery context and select **Create** from the Object menu, then **Printer**. Type the printer name and click **Create**.

9. To assign the print queue, double-click the Printer object icon (created in step 8). The Printer dialog box appears.

10. Click **Assignments** and then click **Add**. From the print queue list, select the queue (created in step 2) and click **OK**.

11. Click **Configuration** in the Printer dialog box, and select **Parallel** from the Printer type pull-down menu.

12. Click **Communication**. The Parallel Communication dialog box appears.

13. Select **LPT1** for Port; check **Polled** for Interrupts; and check **Manual load (Remote from Print Server)** for Connection type, then click **OK**.

14. Click **OK** in the Printer dialog box.

15. To assign the printer, double-click the Print Server object icon (created in step 4). The Print Server dialog box appears.

16. Click **Assignments** and then click **Add**. From the printer object list, select the printer object (created in step 8) and click **OK**.

17. In the Print Server dialog box, select the assigned printer from the printer object list, and click the **Printer Number** button to set the printer number from 0 to 15, then click **OK**.

18. To confirm the objects you have assigned, double-click the Print Server object icon. Click **Print Layout**, and check that the print server, printer, and print queue are connected.

Configuring for NetWare using EpsonNet Config

1. Turn on your printer.

2. Load the print server from the file server's system console which the print queue volume is set.
   >LOAD PSERVER print server name you set using PCONSOLE

3. Configure the network interface using EpsonNet Config. See the EpsonNet Config User's Guide for details.

   If NetWare objects are already created, you can also use EpsonNet Config with Web Browser. See "NetWare" on page 137 for details.

Using NDS Remote Printer Mode (NetWare 4.x/5.x/6.0)

Follow the steps below to make the printer environment using NWAdmin under NetWare 4.x, IntranetWare, NetWare 5.x, or NetWare 6.0 with NDS mode.

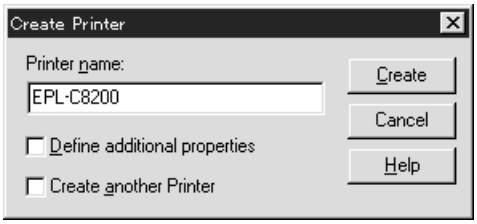
Creating objects

1. From any NetWare client, log in to the target context of the NDS tree as an ADMIN.

2. Run the Administrator tool (NWAdmin).

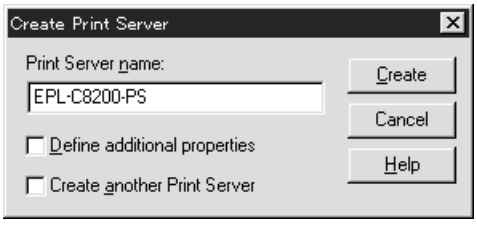
3. Create a printer:

Click the directory context icon, and select **Create** from the **Object** menu, then **Printer**. Type the Printer name and click **Create**.



4. Create a print server:

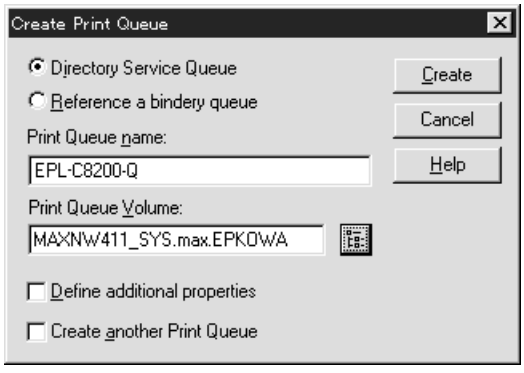
   Click the directory context icon, and select **Create** from the **Object** menu, then **Print Server**. Type the Print Server name and click **Create**.



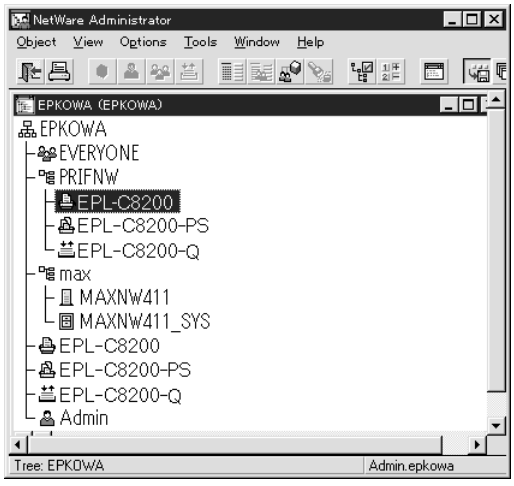
5. Create a print queue:

   Click the directory context icon, and select **Create** from the **Object** menu, then **Print Queue**. Type the Print Queue name and select the Print Queue Volume, then click **Create**. Double-click the print queue object, and register the user.

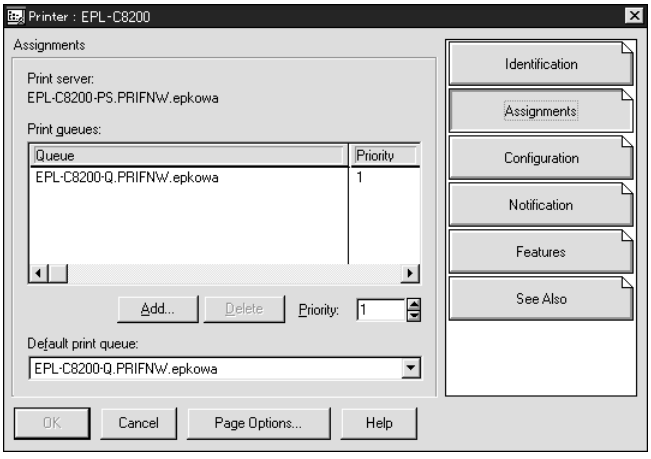
   Note:
   Since your clients need the print queue name you set here when they use the printer, announce the print queue name to your clients.



6. Double-click the **Printer Object** icon in the NetWare Administrator screen.

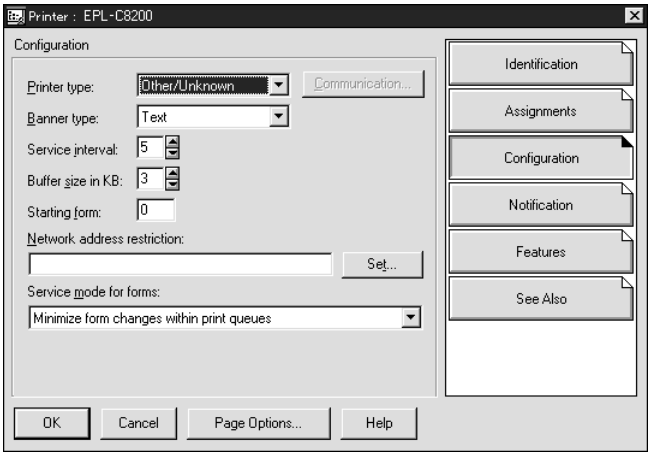


7. In the Printer dialog box appears, click **Assignments** and then click **Add**.

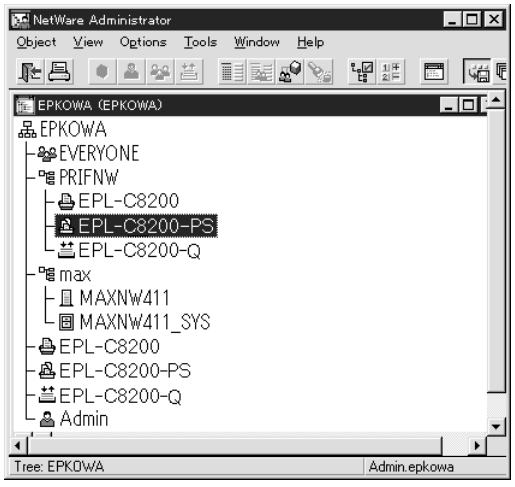


8. From the print queue list, select the queue you created in step 5 and click **OK**.

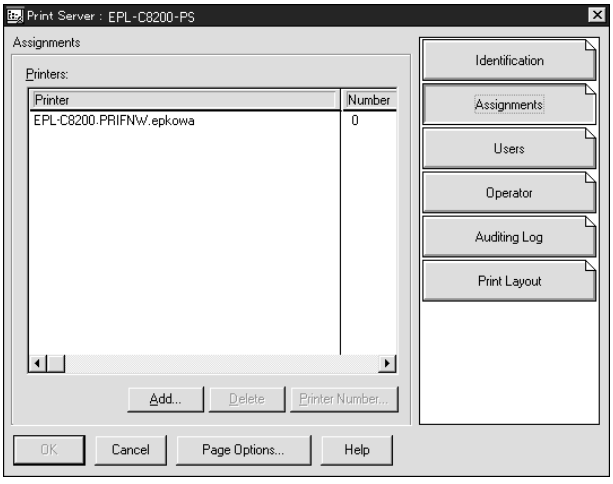
9. Click **Configuration**, and select **Other/Unknown** for the Printer type list box and click **OK**.



10. Double-click the **Print Server Object** icon in the NetWare Administrator screen.

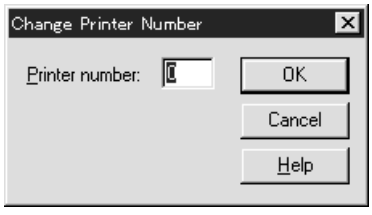


11. In the Print Server dialog box that appears, click **Assignments** and then click **Add**.



12. From the printer object list, select the printer object you want to assign and click **OK**.

13. Go back to the screen in step 11, and click the **Printer Number** button to set the printer number from 0 to 254.



14. To confirm the objects you have assigned, double-click the Print Server object icon. Click **Print Layout**, and check that the print server, printer, and print queue are connected.

Configuring for NetWare using EpsonNet Config

1. Turn on your printer.

2. Load the print server from the file server's system console which the print queue volume is set.
   >LOAD PSERVER print server name you set using NWAdmin

3. Configure the network interface using EpsonNet Config. See the EpsonNet Config User's Guide for details.

   If you use the NetWare objects that are already created, you can use EpsonNet Config with Web Browser too. See "NetWare" on page 137 for details.

Using the EpsonNet NDPS Gateway

This section contains instructions on printing using Novell Distributed Print Services® (NDPS®) with Novell® NetWare® 5.x/6.0. Novell Distributed Print Services (NDPS) is the new generation print services of NetWare.

Note:

- ❏ *Banners cannot be printed with NDPS.*
- ❏ *The Status Monitor utility cannot be used with NDPS.*
- ❏ *Bind the IP or both IP or IPX protocols on the NetWare server that runs NDPSM.NLM and EPSONGW.NLM.*

Check the following points before starting.

- ❏ Install the appropriate client software, such as Novell Client for Windows 95/98 version 3.4, Novell Client for Windows NT/2000 version 4.8, or Novell Client for Windows XP version 4.9 on client workstations. Make sure they install NDPS.
- ❏ When you use the network interface with Bindery (either in the Print Server mode or the Remote Printer mode), you need PCONSOLE.EXE to create bindery objects such as Print Server and Print Queue objects. Since PCONSOLE.EXE does not come with NetWare 5.x/6.0, you need to get the file from Novell.

Outline of settings

The followings are basic steps to use the network interface with the NDPS printing system. Detailed procedures are described in the subsequent sections.

1. Install EpsonNet NDPS Gateway.
2. Upload printer driver files to the NDPS RMS server.
3. Create an NDPS Manager object in NetWare Administrator.
4. Create a Printer Agent in NetWare Administrator.
5. Configure the network interface using EpsonNet Config.
6. Set the printer on the client workstations.

The environment to use, the settings you make, and the tools to use differ depending on the printer type and connection type you choose. You can create an NDPS Manager and Printer Agent in NetWare Administrator or partially via the Server Console. See the Novell online documentation for more details.

Installing EpsonNet NDPS Gateway on your NetWare server

You can install EpsonNet NDPS Gateway from the Software CD-ROM.

Note:
If an older version of EpsonNet NDPS Gateway is already installed, be sure to unload the NDPS Manager before installing a new version of EpsonNet NDPS Gateway.

1. Open the **NETUTIL** folder.
2. Open the **ENGW** folder.
3. Double-click **EDPS2***.EXE**.

   Note:
   The last three characters of the file name, represented by asterisks, vary depending on the place of purchase.

For detailed information on EpsonNet NDPS Gateway, see the online guide on the Software CD-ROM.

To view the online guide, follow the steps below.

1. Open the **NETUTIL** folder.
2. Open the **ENGW** folder.
3. Double-click **index.htm**.

Uploading printer driver files to the RMS

After installing EpsonNet NDPS Gateway, you need to upload the printer driver to the Resource Management Service (RMS).

Upload the printer driver to the NetWare server using NDPS Broker. For details on the procedure, refer to the section of NDPS or iPRINT in the NetWare documentation.

Creating an NDPS Manager

1. Run NetWare Administrator (NWADMN32.EXE) on the client machine. The main browser window appears.
2. To create an NDPS Manager, click the Directory context icon, and then select **Create** from the Object menu.
3. Select **NDPS Manager** from the list.

4. Enter the NDPS Manager name in the NDPS Manager Name field.

5. Browse the Resident Server and select where you want the NDPS Manager assigned.

6. Browse the Database Volume and select where you want the NDPS Manager database assigned.

7. Click **Create**. The NDPS Manager icon appears in the main browser window.

8. Type **LOAD NDPSM** at the server console, and then select the NDPS Manager you have created.

Creating a Printer Agent

After creating an NDPS Manager, you can create Printer Agents, either public access printers or controlled access printers. The following are the features of public access printers and controlled access printers.

- ❏ Public Access Printers:
  NDPS printers that are available to all network users and not associated with an NDS object. Users can select and print to any public access printer they can view from their workstations. However, these printers do not take full advantage of services such as security and job event notification.

- ❏ Controlled Access Printers:
  NDPS printers that are added to the NDS tree by NetWare Administrator. They are only available to the workstation user through the NDS object list. These printers can take full advantage of the security and management features provided by NDS.

Note on using the Adobe PostScript 3 Kit:
If you want to use a printer as a PostScript and ESC/Page printer and want to install the printer driver automatically to the client computer, you must create two Printer Agents: one for the PostScript printer driver and the other for the ESC/Page printer driver. If you create one with Remote (rprinter on IPX), create the other with Remote (LPR on IP). You can create two Printer Agents with the LPR protocol (called LPR Printer Agent), but cannot create two Printer Agents with the IPX protocol (called IPX Printer Agent) for the same printer.

Creating a Printer Agent automatically

You can create a Printer Agent automatically. Only public access printers can be created in this way. See “Creating Public Access Printers Automatically” in the EpsonNet NDPS Gateway manual for detailed information.

Note on using the Adobe PostScript 3 Kit:

- ❏ *If the NetWare server is bound with both IP and IPX protocols, two Printer Agents (one being LPR Printer Agent and the other IPX Printer Agent) are created automatically. When you select one of the Printer Agents for the PostScript printer driver, select the other for the ESC/Page printer driver. The Printer Agent name cannot be changed, so be sure to remember which Printer Agent is associated with the PostScript or ESC/Page printer driver.*

- ❏ *If the NetWare server is bound with only IP protocol, only one LPR Printer Agent is created. You need to create one more LPR Printer Agent manually. Be sure to select Remote (LPR on IP) for the port handler type and set a unique Printer Agent name so you can tell which Printer Agent is associated with the PostScript or the ESC/Page printer driver.*

- ❏ *If the NetWare server is bound with only IPX protocol, only one IPX Printer Agent is created. In this case, you cannot create another IPX Printer Agent manually. To avoid this, be sure to bind both the IP and IPX protocols to the NetWare server first.*

Creating a Printer Agent manually

You can create Printer Agents, either public access printers or controlled access printers. The way to create a Printer Agent differs depending on the printer type you choose.

Note on using the Adobe PostScript 3 Kit:
If you want to use a printer as a PostScript and ESC/Page printer and want to install the printer driver automatically to the client computer, you must create two Printer Agents: one for the PostScript printer driver and the other for the ESC/Page printer driver. If you create one with Remote (rprinter on IPX), create the other with Remote (LPR on IP). You can create two LPR Printer Agents but cannot create two IPX Printer Agents for the same printer.

1. Select a printer type (either public access printer or controlled access printer).

2. Create a public access printer. If you want to create a controlled access printer, go to step 3.

   In NetWare Administrator, double-click the NDPS Manager you have created. Click **Printer Agent List**, and then click **New**. Type the Printer Agent name, and then select **EpsonNet NDPS Gateway Configuration** for the Gateway Type. Click **OK**. Then go to step 4.

   Note on using the Adobe PostScript 3 Kit:
   When you create two Printer Agents for the same printer, be sure to use names related to the printer driver type so you can tell which Printer Agent is associated with the PostScript or the ESC/Page printer driver.

3. Create a controlled access printer.

   In NetWare Administrator, select the Directory context icon. Select **Create** from the Object menu, and then select **NDPS Printer**. Type the Printer Agent name, and then select **Create a new Printer Agent**, and then click **Create**. Select the NDPS Manager you have created, and then select **EpsonNet NDPS Gateway Configuration** for the Gateway Type. Click **OK**.

Note on using the Adobe PostScript 3 Kit:
When you create two Printer Agents for the same printer, be sure to use names related to the printer driver type so you can tell which Printer Agent is associated with the PostScript or the ESC/Page printer driver.

4. Select one of the following port handler type. Select **Remote (LPR on IP)** if you want to use the printer in IP network. Select **Remote (rprinter on IPX)** if you want to use the printer on an IPX network. Select **Queue Based** if you want to keep the NetWare NDS print server configuration of the network interface. Then click **Next**.

   Note on using the Adobe PostScript 3 Kit:
   If you have selected Remote (rprinter on IPX) for the first Printer Agent, be sure to select Remote (LPR on IP) for the second Printer Agent.

5. Configure it as described below. It is a good idea to print a network status sheet of the network interface and configure the corresponding items.

❏ For Remote (rpinter on IPX) connection:
You need to use the same configuration of NetWare Remote printer mode as you have set by using EpsonNet Config already.
IPX Network Number: Enter the IPX network number of the network interface.
IPX Node Number: Enter the IPX node number of the network interface.
SAP Name: Enter the Primary Print Server Name. Do not use the following characters: ~ ! @ # $ % ^ & * ( ) + ` = { } [ ] | \ : ; " ' < , >. ? / `
Printer Number: Enter the printer port number (from 0 to 254).

❏ For Remote (LPR on IP) connection:
IP Address: Enter the IP address of the network interface. You can confirm the IP address on the network status sheet.

❏ For Queue Based connection:
NDS Context: Type the NDS context.
Print Server Name: Print server name that is already defined in NDS or Bindery. If the printer is in the Remote Printer mode, enter the print server name that is used when PSERVER.NLM is loaded.
Printer Name: Printer name that is already defined in NDS or Bindery.
NDS Volume for Print Queue: The format is as follows:
Format: NDS Volume and context
For example: NDPS_SERVER_SYS.EPSON
File Server for Print Queue: Enter the file server name for the print queue.
IPX Network Number: Enter the IPX network number of the network interface.
IPX Node Number: Enter the IPX node number of the network interface.

6. When you finish filling in the boxes, press **Finish**. Follow the on-screen instructions.

7. The Select Printer Drivers dialog box appears. Select an appropriate printer driver for Windows Me/98 and Windows 2000/NT 4.0. Be sure to select the correct printer driver for your printer from the appropriate menus. Windows 3.1 is not supported.

8. Click **Continue**.

9. Confirm the Printer Agent that you have just created.

   In NetWare Administrator, double-click the NDPS Manager object and click **Printer Agent List**. Check that the status of the Printer Agent you have just created is "Idle".

Configuring for NetWare using EpsonNet Config

Follow the steps below if you want to use the printer in IPX network.

Note:
Be sure that the one of the following clients is installed on your computer: Novell Client 32, Novell IntranetWare Client, or Novell Client.

1. Turn on your printer.

2. From any NetWare client, log in to the target NetWare server as an ADMIN.

3. Run EpsonNet Config from the Start menu. See "Accessing the EpsonNet Config User's Guide" on page 116 for details.

   If the IP address of the printer is already assigned, you can use EpsonNet Config with Web Browser too. See "NetWare" on page 137 for details.

Setting the printer on client workstations

After configuring the network interface, set up the printer on client workstations.

Installing printers automatically

1. Run the Novell Printer Manager from Windows. If you are running Windows Me/98/2000/NT, run:
   \PUBLIC\WIN32\NWPMW32.EXE

2. In the Novell Printer Manager dialog, select **New** from the Printer menu.

3. Click **Add**. A list of available printers appears.

4. Select the printer you want and click **Install**.

   The Novell Printers---Install dialog appears. You may modify the printer name that appears and select a pre-defined configuration.

5. Click **OK**. The printer driver for that printer model is installed automatically from the Resource Management Service.

6. Click **Close**. The printer appears in the main Printer Manager window and is available for print jobs.

Installing printers manually

1. Install the printer driver.

2. Change the **Ports** on the printer's properties dialog box. Specify the following objects for the port.

❏ For Public Access Printers:
The Printer Agent you have created in "NDPS Public Access Printers" under Entire Network.

❏ For Controlled Access Printers:
The Printer Agent you have created in the NDS tree.

See the Novell online documentation for details.

Instructions for using a dial-up network

This section explains about using a dial-up network.

Note:
The primary server described in this manual indicates a primary time server which offers time to the workstations on the network.

Using a dial-up network in each mode

Print Server mode

You must use a dedicated dial-up line.
Since polling is performed on the file server in the print server mode, no vicarious response by the router is possible. Therefore, no dial-up connection is possible in this case.

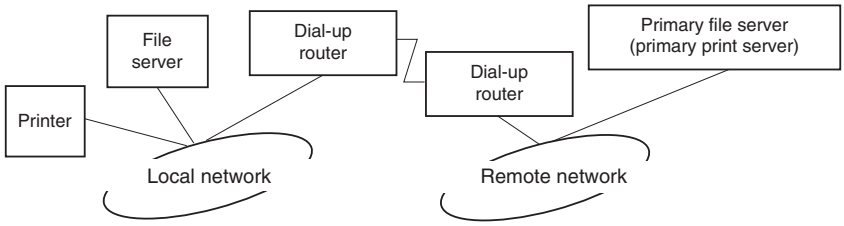
Remote Printer mode

In Remote Printer mode, use of a router with a vicarious response function allows the primary server to be installed at the dial-up destination. However, an extra account might be generated when the primary server is down. To avoid that, it is recommend to use connections via a dedicated dial-up line.

Follow the instructions for using a dial-up line.

When there is a primary server at the dial-up destination

For local networks with file servers:



❏ When the power is turned on

A dial-up is generated because access is made to a local file server first and then to a primary server. There is no problem since this dial-up only occurs at startup.

❏ When the network interface is not correctly set

A dial-up is generated because access is made to a local file server first and then to a primary server. This dial-up is repeated at intervals of approximately 5 minutes. Make the network interface settings correctly to avoid this problem.

❏ During normal operation (standby)

An SPX Watchdog packet is sent according to the NetWare protocol convention. Use a router with a vicarious response function to avoid a dial-up.

❏ During normal operation (printing)

A dial-up is generated while the printing data is being transferred. This is not a problem because it is a dial-up specific to the dial-up network.

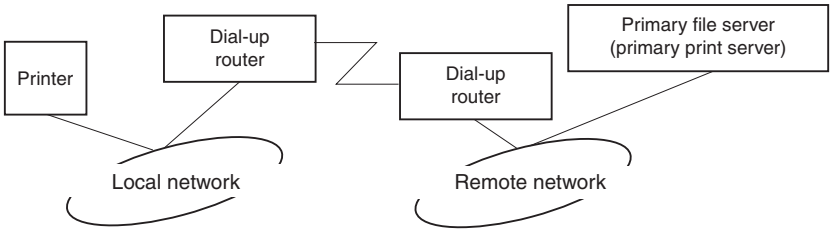
❏ When the primary server is down during operation

A dial-up is generated because a connection to the primary server is attempted periodically. Since this is attributable to the automatic re-connection function, turn off the printer once.

❏ When the file server on the local network is down

When there is no file server on the local network, NetWare cannot be used on the local network. In this case, the NetWare protocol for the network interface is also not available. No dial-up is generated under this condition. When the file server on the local network is restored, the network interface is also automatically restored.

For local networks with no file server:

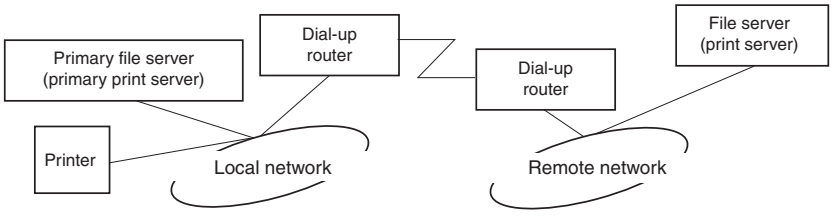


Depending on the router settings, the NetWare protocol can be used without a file server on a local network. This setup follows the same pattern as that described above.

When there is a primary server in the local network

Even if a primary server is installed on the local network, an unnecessary dial-up may be generated depending on the configuration.

The following problems are common to both Print Server mode and Remote Printer mode.



❏ When the power is turned on

Since access is made only to the primary server, no dial-up is generated.

❏ When the network interface is not correctly set

Since access is made only to the primary server, no dial-up is generated. However, if the file server/print server of the remote network is erroneously set as the primary server, an unnecessary dial-up might be generated. Correct the settings to avoid this problem.

❏ During normal operation (standby/printing)

Since access is made only to the primary server, no dial-up is generated.

❏ When the primary server is down during operation

Connection to the primary server is periodically attempted, but no dial-up is generated. However, if the router is set to pass SAP packets (Find Nearest Server), an unnecessary dial-up might be generated. To avoid this, turn off the printer once, or do not allow the router to pass SAP packets (Find Nearest Server).

For Users of Printers Not Supporting NetWare Queue-Based Printing

This section explains how to configure the network interface for NetWare.

To print in a NetWare environment, you need to use NDPS. First, install EpsonNet NDPS Gateway on the NetWare server, and then set a valid IP address to the network interface using EpsonNet Config.

Note:
Be sure to set a static IP address to the network interface.

Introduction to NetWare settings

Supported systems

Server environment

- ❏ NetWare 5.0/5.1 (NDPS)
- ❏ NetWare 6.0 (NDPS)

Client environment

The client environment must be supported by NetWare.
The clients are able to use the printer driver mounted on the network interface.

The following Novell Client is supported.

- ❏ For Windows 98:
  Novell Client 3.4 or later for Windows 98/95
- ❏ For Windows 2000/NT 4.0:
  Novell Client 4.8 or later for Windows 2000/NT 4.0
- ❏ For Windows XP:
  Novell Client 4.9 or later for Windows XP

Using the EpsonNet NDPS Gateway

This section contains instructions on printing using Novell Distributed Print Services® (NDPS®) with Novell® NetWare® 5.x/6.0.

Note:

- ❏ *Banners cannot be printed with NDPS.*
- ❏ *The Status Monitor utility cannot be used with NDPS.*
- ❏ *Bind the IP protocol on the NetWare server that runs NDPSM.NLM and EPSONGW.NLM.*

Check the following points before starting.

- ❏ Install the appropriate client software, such as Novell Client for Windows 95/98 version 3.4, Novell Client for Windows NT/2000 version 4.8, or Novell Client for Windows XP version 4.9 on client workstations. Make sure they install NDPS.

Outline of settings

The followings are basic steps to use the network interface with the NDPS printing system. Detailed procedures are described in the subsequent sections.

1. Install EpsonNet NDPS Gateway.
2. Upload printer driver files to the NDPS RMS server.
3. Create an NDPS Manager object in NetWare Administrator.
4. Create a Printer Agent in NetWare Administrator.
5. Set the printer on the client workstations.

The environment to use, the settings you make, and the tools to use differ depending on the printer type and connection type you choose. You can create an NDPS Manager and Printer Agent in NetWare Administrator or partially via the Server Console. See the Novell online documentation for more details.

Installing EpsonNet NDPS Gateway on your NetWare server

You can install EpsonNet NDPS Gateway from the Software CD-ROM.

Note:
If an older version of EpsonNet NDPS Gateway is already installed, be sure to unload the NDPS Manager before installing a new version of EpsonNet NDPS Gateway.

1. Open the **NETUTIL** folder.
2. Open the **ENGW** folder.
3. Double-click **EDPS2***.EXE**.

   Note:
   The last three characters of the file name, represented by asterisks, vary depending on the place of purchase.

For detailed information on EpsonNet NDPS Gateway, see the online guide on the Software CD-ROM.

To view the online guide, follow the steps below.

1. Open the **NETUTIL** folder.
2. Open the **ENGW** folder.
3. Double-click **index.htm**.

Uploading printer driver files to the RMS

After installing EpsonNet NDPS Gateway, you need to upload the printer driver to the Resource Management Service (RMS).

Upload the printer driver to the NetWare server using NDPS Broker. For details on the procedure, refer to the section of NDPS or iPRINT in the NetWare documentation.

Creating an NDPS Manager

1. Run NetWare Administrator (NWADMN32.EXE) on the client machine. The main browser window appears.
2. To create an NDPS Manager, click the Directory context icon, and then select **Create** from the Object menu.
3. Select **NDPS Manager** from the list.
4. Enter the NDPS Manager name in the NDPS Manager Name field.
5. Browse the Resident Server and select where you want the NDPS Manager assigned.
6. Browse the Database Volume and select where you want the NDPS Manager database assigned.
7. Click **Create**. The NDPS Manager icon appears in the main browser window.
8. Type **LOAD NDPSM** at the server console, and then select the NDPS Manager you have created.

Creating a Printer Agent

After creating an NDPS Manager, you can create Printer Agents, either public access printers or controlled access printers. The following are the features of public access printers and controlled access printers.

- ❏ Public Access Printers:
  NDPS printers that are available to all network users and not associated with an NDS object. Users can select and print to any public access printer they can view from their workstations. However, these printers do not take full advantage of services such as security and job event notification.

- ❏ Controlled Access Printers:
  NDPS printers that are added to the NDS tree by NetWare Administrator. They are only available to the workstation user through the NDS object list. These printers can take full advantage of the security and management features provided by NDS.

Creating a Printer Agent automatically

You can create a Printer Agent automatically. Only public access printers can be created in this way. See "Creating Public Access Printers Automatically" in the EpsonNet NDPS Gateway manual for detailed information.

Creating a Printer Agent manually

You can create Printer Agents, either public access printers or controlled access printers. The way to create a Printer Agent differs depending on the printer type you choose.

1. Select a printer type (either public access printer or controlled access printer).

2. Create a public access printer. If you want to create a controlled access printer, go to step 3.

   In NetWare Administrator, double-click the NDPS Manager you have created. Click **Printer Agent List**, and then click **New**. Type the Printer Agent name, and then select **EpsonNet NDPS Gateway Configuration** for the Gateway Type. Click **OK**. Then go to step 4.

3. Create a controlled access printer.

   In NetWare Administrator, select the Directory context icon. Select **Create** from the Object menu, and then select **NDPS Printer**. Type the Printer Agent name, and then select **Create a new Printer Agent**, and then click **Create**. Select the NDPS Manager you have created, and then select **EpsonNet NDPS Gateway Configuration** for the Gateway Type. Click **OK**.

4. Select **Remote (LPR on IP)**.

5. Configure it as described below. It is a good idea to print a network status sheet of the network interface and configure the corresponding items.

   - ❏ For Remote (LPR on IP) connection:

     IP Address: Enter the IP address of the network interface. You can confirm the IP address on the network status sheet.

6. When you finish filling in the boxes, press **Finish**. Follow the on-screen instructions.

7. The Select Printer Drivers dialog box appears. Select an appropriate printer driver for Windows Me/98 and Windows 2000/NT 4.0. Be sure to select the correct printer driver for your printer from the appropriate menus. Windows 3.1 is not supported.

8. Click **Continue**.

9. Confirm the Printer Agent that you have just created.

   In NetWare Administrator, double-click the NDPS Manager object and click **Printer Agent List**. Check that the status of the Printer Agent you have just created is "Idle".

Setting the printer on client workstations

For detailed information on setting the printer on client workstations, see the Novell online documentation.

Settings for UNIX Users

Introduction to UNIX Settings

This chapter explains how to set up the printer for different UNIX systems using the lpr command.

Your printer supports many standard UNIX commands and can be configured from a host computer without using a special setup utility.

Your printer is able to function as a remote printer on systems using TCP/IP Ethernet transfer with lpr remote printing protocol, or standard ftp (file transfer protocol).

Note:
Because this printer does not convert data into the printer control language, a printer driver and filter are necessary for each system.

lpr filters

Filters for lpr are controlled by the name given to the remote printer. When setting up an lpr printer entry, a name is entered for:

- ❏ the local printer name to be redirected
- ❏ the host name of the station to which the print is sent
- ❏ the remote printer name (name of the printer port on the remote station)

Many different remote printer names may be set up, all directed to the same Ethernet remote host, and each is given a different local printer name to be redirected. Different types of print jobs may be sent to different printer names, which will then all print out on the same printer, through the same Ethernet interface, but using different filters.

The remote printer name options used to invoke the different filters are as follows:

lpb	Binary files (no filters)
lpa	ASCII files (carriage returns at line ends)
lpbf	Binary file with form feed at file end
lpaf	ASCII file with form feed at file end

All other remote printer name options will be treated the same as lpb.

The following is an example of sending a text file, "txtfile", via lpr with a form feed appended:

% lpr -plpaf txtfile

Setting Up Different UNIX Systems Using the lpr Command

The following UNIX systems can print using the standard lpr command.

- ❏ SunSoft Solaris 2.4 or later
- ❏ SunOS 4.1.4 or later
- ❏ IBM AIX 3.2.5 or later and 4.1.3 or later
- ❏ HP-UX 9.05 or later
- ❏ SCO UNIX 4.2 or later

Setting up for SunSoft Solaris 2.4 or later

In the following steps, substitute the name that your printer will be known by for HOSTNAME, and the name by which you want your printer to be known for Rprinter.

1. Add the IP address and printer host name to the \etc\hosts file.

   For example:
   22.33.44.55 HOSTNAME

2. Define the host name as a print server.

For example:
lpsystem -t bsd HOSTNAME

3. Create the printer.

   For example:
   lpadmin -p Rprinter -s HOSTNAME\aux-T unknown-1 any

4. Enable the printer for use.

   For example:
   accept Rprinter
   enable Rprinter

5. To print, use the lp command.

   For example:
   lp -d RPrinter Print-File-Name

Setting up for SunOS 4.1.4 or later

In the following steps, substitute the name that your printer will be known by for HOSTNAME, and the name by which you want your printer to be known for Rprinter.

1. Add the IP address and printer host name to the \etc\hosts file.

   For example:
   22.33.44.55 HOSTNAME

2. Create a spool directory.

   For example:
   mkdir\var\spool\lpd\PRIFx

3. Add the printer entry to the \etc\printcap file.

   For example:
   Rprinter |
   ALCXXXX:lp=:rm=HOSTNAME:rp=aux:sd=/var/spool/lpd/PRIFx

4. To print, use the lpr command.

   For example:
   lpt -s -PRPrinter Print-File-Name

Caution:
Files that exceed 1 MB may not be printed unless the -s option is used.

Setting up for IBM AIX 3.2.5 or later and 4.1.3 or later

In the following steps, substitute the name that your printer will be known by for HOSTNAME, and the name by which you want your printer to be known for Rprinter.

1. Add the IP address and printer host name to the /etc/hosts file.

   For example:
   22.33.44.55 HOSTNAME

2. Run smit.

   For example:
   smit printer

3. Set the printer name (for example: Rprinter) in:

   "Manage Remote Printer""Client Services""Remote Printer Queues""NAME of queue to add".

   Set the host name (for example: HOSTNAME) in:

   "DESTINATION HOST for remote jobs".

   Set the port name (for example: aux) in:

   "Name of QUEUE on remote printer".

4. To print, use the lpr command.

   For example:
   lpr -PRPrinter Print-File-Name

Setting up for HP-UX 9.05 or later

In the following steps, substitute the name that your printer will be known by for HOSTNAME, and the name by which you want your printer to be known for Rprinter.

1. Add the IP address and host name to the /etc/hosts file.

   For example:
   22.33.44.55 HOSTNAME

2. Terminate the printer service.

   For example:
   lpshut

3. Create a printer.

   For example:
   lpadmin -pRPrinter -v/dev/null -mrmodel-ormHOSTNAME -orpaux

4. Restart the print service.

   For example:
   lpshed

5. Enable the printer for use.

   For example:
   accept Rprinter
   enable Rprinter

6. To print, use the lp command.

   For example:
   lp -DRPrinter Print-File-Name

Setting up for SCO UNIX 4.2 or later (Open Server)

In the following steps, substitute the name that your printer will be known by for HOSTNAME, and the name by which you want your printer to be known for Rprinter.

1. Add the IP address and host name to the /etc/hosts file.

   For example:
   22.33.44.55 HOSTNAME

2. Execute rlpconf to register the printer.

   For example:
   rlpconf

3. Enter the name of the printer.

   For example:
   Please enter the printer name (q to quit):RPrinter

4. Specify the remote printer as the printer type.

   For example:
   Is Rprinter a remote printer or a local printer (r/l)? r

5. Enter the name of the remote printer's host.

   For example:
   Please enter the name of the remote host that Rprinter is attached to:
   HOSTNAME Printer RPrinter is connected to host HOSTNAME

6. Confirm that the entries are correct.

   For example:
   Is this correct?(y/n)y

7. Specify that the RLP extended function (valid when the print server is SCO-UNIX) will not be used.

   For example:
   If HOSTNAME currently runs SCO OpenServer
   Release 5 or above, it can support the extended
   remote line printer protocol. Do you want to turn
   on the "extended RLP protocol" support flag?
   If you are not sure, answer "n"? (y/n)[n]n

8. Specify whether the created printer is to become the default printer.

For example:
Would you like this to be the system default printer? (y/n)y

9. To print, use the lpr command.

   For example:
   lpr -d RPrinter Print-File-Name

Using the ftp Command

ftp commands are common to all UNIX systems.

ftp programs use interfaces that are common for all unix systems.

The following is an example of printing using the ftp command (the entry operations are underlined).

ftp> open 22.33.44.55

Connected to 22.33.44.55

220 PR-lfx(22.33.44.55) ftp server ready.

Name:

331 Password Required for (No Name).

Password:

230 User logged in.

200 Type set to I.

ftp> put binary file

200 PORT command successful.

150 Opening data connection for binary_file

226 Transfer complete

ftp> bye

Chapter 3

Network Software

This chapter explains how to use the network software provided with your printer.

Note:
The software provided varies depending on your printer model.

EpsonNet Config for Windows

About EpsonNet Config

EpsonNet Config is a Windows-based configuration software for administrators to configure the network interface for TCP/IP, NetWare, MS Network, AppleTalk, IPP, and SNMP.

Note:
- ❏ *Be sure to use EpsonNet Config included on the Software CD-ROM shipped with this product.*
- ❏ *EpsonNet Config installed on Windows Vista does not support NetBEUI and IPX as a search protocol.*
- ❏ *EpsonNet Config installed on Windows XP/Server 2003 does not support NetBEUI as a search protocol because officially the NetBEUI protocol is not supported on Windows XP/Server 2003.*

Note for users of printers supporting NetWare queue-based printing:
- ❏ *If you are using the printer in a dial-up environment without running NetWare, clear the* ***Use NetWare*** *check box on the NetWare screen. If this check box is selected, the extra account may be charged when you use the dial-up router.*
- ❏ *When configuring the network interface for NetWare, use the IPX protocol and log in to the NetWare server or the NDS context with supervisor privileges.*
- ❏ *When you configure the network interface for NetWare 5.x, you must log in to the NetWare server using an IPX connection. If you log in to the NetWare server using an IP connection, the NetWare screen and the IPX trap setting of SNMP are not available.*

System Requirements

The following table lists the system requirements of EpsonNet Config.

Operating systems	Windows Vista Windows XP Professional/Home Edition Windows Me Windows 98/98 Second Edition Windows 95 OSR2 or higher Windows Server 2003 Windows 2000 Server/Professional Windows NT 4.0 Server/Workstation with Service Pack 5.0 or higher
Hard disk drive space	49 MB

Installing EpsonNet Config

Follow the steps below to install EpsonNet Config on your computer to configure the network interface.

Note:
If you add or delete protocols or services from your operating system after installing EpsonNet Config, EpsonNet Config may not work correctly. If this happens, uninstall EpsonNet Config and then install it again.

1. Insert the Software CD-ROM in the CD-ROM drive.

2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.

3. Make sure that all applications are closed, and then click the **Install Network Utility** button.

4. Click the icon located next to EpsonNet Config.

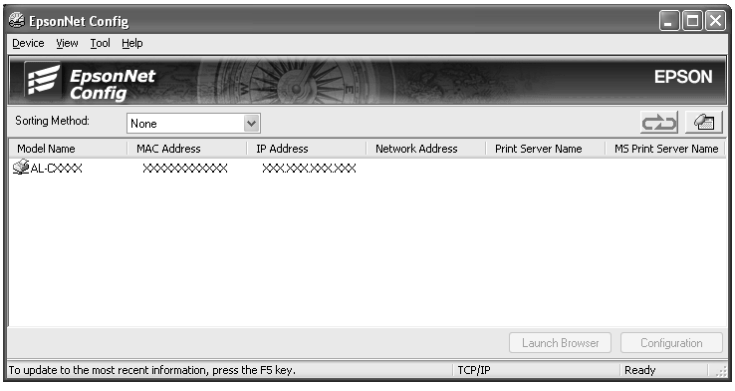
5. Follow the on-screen instructions to complete the installation.

Note:
If the following screen appears after you start EpsonNet Config, click the ***Unblock*** *button; otherwise the devices are not listed on the screen of EpsonNet Config.*

Accessing the EpsonNet Config User's Guide

The EpsonNet Config User's Guide contains detailed information on EpsonNet Config. Follow the steps below to access the EpsonNet Config User's Guide.

1. Click **Start**, point to **Programs** (for Windows Me, 98, 95, 2000, and NT 4.0 users) or **All Programs** (for Windows Vista, XP, and Server 2003 users), select **EpsonNet**, and then select **EpsonNet Config V1**. Click **EpsonNet Config** to start it.



2. From the Help menu, select **EpsonNet Config Help**.

   The EpsonNet Config User's Guide appears. By clicking the links on the left side of the screen, you can get information on using EpsonNet Config.

EpsonNet Config for Macintosh

About EpsonNet Config

EpsonNet Config for Macintosh is a Macintosh-based configuration software for administrators that allows you to configure the network interface for TCP/IP, AppleTalk, and IPP.

Note:
Be sure to use EpsonNet Config included on the Software CD-ROM shipped with this product.

System Requirements

The following table lists the system requirements of EpsonNet Config.

Operating systems	Mac OS 10.2.x or higher Mac OS 9.x
Models	PowerPC Macintosh/Intel Macintosh
Hard disk drive space	45 MB

Installing EpsonNet Config

Follow the steps below to install EpsonNet Config to configure the network interface.

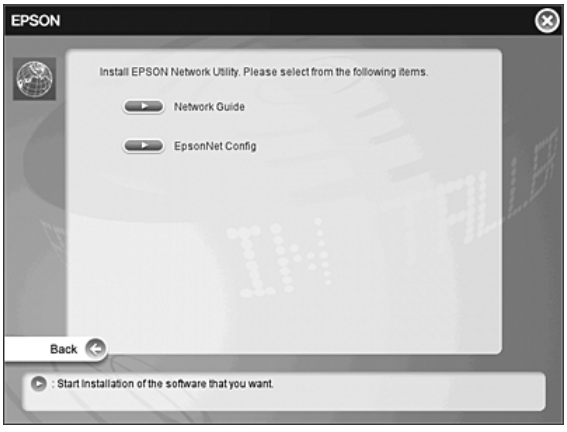
1. Insert the Software CD-ROM in the CD-ROM drive.

   EPSON folder opens automatically.

2. Select the appropriate OS icon in the **EPSON** folder, and then double-click it.

3. Make sure that all applications are closed, and then click the **Install Network Utility** button.

4. Click the icon located next to EpsonNet Config.

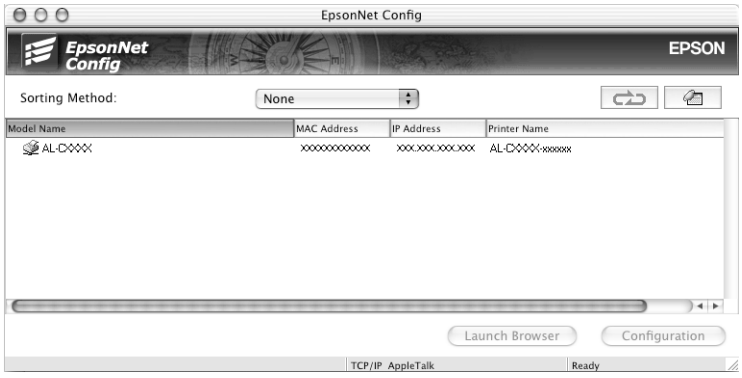


5. Follow the on-screen instructions to complete the installation.

Accessing the EpsonNet Config User's Guide

The EpsonNet Config User's Guide contains detailed information on EpsonNet Config. Follow the steps below to access the EpsonNet Config User's Guide.

1. Double-click the **Macintosh HD** icon. In the **Applications** folder, double-click the **EpsonNet** folder, and then double-click the **EpsonNet Config** folder. Finally, double-click the **EpsonNet Config** icon.



2. From the Help menu, select **EpsonNet Config Help**.

   The EpsonNet Config User's Guide appears. By clicking the links on the left side of the screen, you can get information on using EpsonNet Config.

EpsonNet Config with Web Browser

About EpsonNet Config

EpsonNet Config with Web Browser is a Web-based utility designed to configure the printer for use on a network.

By typing the IP address of the network interface for the URL in your browser, you can start EpsonNet Config to allow you to configure the network interface for TCP/IP, NetWare, MS Network, AppleTalk, IPP, and SNMP.

Supported Web browser

Windows:

- ❏ Microsoft Internet Explorer version 4.01 or later
- ❏ Netscape Navigator version 4.05 or later

Note:
To use EpsonNet Config with WebBrowser, Java™ Plug-in must be installed on your computer. To install Java™ Plug-in, insert the Software CD-ROM in the CD-ROM drive. Double-click the ***COMMON*** *folder on the CD-ROM, and then double-click the* ***PLUGIN*** *folder. Finally, double-click the icon with the exe extension in the folder. Also, you can download Java™ Plug-in from the following Web site: http://www.java.com*

Note for Windows NT 4.0 users:
If you have not yet upgraded to Windows NT Service Pack 3, install the Windows NT Service Pack before installing Microsoft Internet Explorer.

Mac OS X:

- ❏ Microsoft Internet Explorer version 4.01 or later
- ❏ Netscape Navigator version 7.0 or later
- ❏ Safari

Note:
If you are using Mac OS 9, you cannot configure printer settings. Only network settings are available.

Unix:

- ❏ Netscape Navigator version 4.05 or later

About Web browser setting

When running EpsonNet Config with Web Browser, be sure not to use a proxy server to access the Internet. If the **Access the Internet using a proxy server** check box is selected, you cannot use EpsonNet Config with Web Browser. Use the following steps to clear the Access the Internet using a proxy server check box.

1. Right-click the **Internet Explorer** icon on the desktop, and then select **Properties**.
2. Click the **Connection** tab.
3. Clear the **Access the Internet using a proxy server** check box.

Configuring the Network Interface Using Web-Based EpsonNet Config

After you have assigned an IP address to the network interface using EpsonNet EasyInstall, EpsonNet Config for Windows or Macintosh, or the arp/ping command, you can configure the network interface using Web-based EpsonNet Config.

Note:
- ❏ *A Web browser must be installed on your computer.*
- ❏ *TCP/IP must be correctly set for the computer and the network interface.*
- ❏ *Do not run both EpsonNet Config for Windows or Macintosh and Web-based EpsonNet Config at the same time.*
- ❏ *Your browser may restrict some characters you can use. For details, see your browser or operating system documentation.*

Note for users of printers supporting NetWare queue-based printing:
If you are using the dial-up environment without running NetWare, select ***Disable*** *on the NetWare screen. If* ***Enable*** *is selected, the extra account may be charged when you are using the dial-up router.*

Follow the steps below to change the IP address using EpsonNet Config.

1. Turn on your printer.
2. Run EpsonNet Config using one of the following ways.
   - ❏ Run EpsonNet Config for Windows or Macintosh. Select the printer you want to configure from the list and then click **Launch Browser**.
   - ❏ Open your browser, and then type in the IP address of the network interface directly. Do not run EpsonNet Config for Windows or Macintosh.

http://IP address of network interface/

Example: **http://192.168.100.201/**

Note:
To check the IP address of the network interface, use EpsonNet Config. See "About EpsonNet Config" on page 113 for Windows users, or see "About EpsonNet Config" on page 117 for Macintosh users for details.

Note for users of printers supporting NetWare queue-based printing:
- ❏ *From any NetWare client, log in to the target NetWare server or NDS context with supervisor privileges.*
- ❏ *You cannot create a print server, print queue, or printer with Web-based EpsonNet Config. You must create these objects before using Web-based EpsonNet Config.*

3. Click **TCP/IP** under Network on the Configuration menu to display the TCP/IP setting screen.

   Note:
   If you want to configure a protocol other than TCP/IP, see "Configuration - Network Screens" on page 137.

4. Select a method for acquiring the IP address. When you select **Auto**, DHCP becomes available and assigns an IP address automatically. If you want to set the IP address manually, select **Manual**.

   Note:
   - ❏ *The network administrator must check any changes made to the IP address settings.*
   - ❏ *When **Auto** is selected, DHCP becomes available. To use the DHCP server, make sure it is installed on your computer and correctly configured. See your operating system's online help for detailed instructions.*
   - ❏ *If **Set Using Automatic Private IP Addressing (APIPA)** is enabled, a private IP address is automatically assigned to the network interface even when there are no DHCP servers on your system or your network.*
   - ❏ *If the Dynamic DNS function is not supported, we recommend that you select **Manual** and then enter an IP address. This is because if you select **Auto**, the IP address of the network interface changes every time you turn on the printer so that you need to change the printer port setting accordingly.*

5. To assign an IP address manually, enter the IP address, the subnet mask, and the default gateway. Be sure the IP address does not conflict with any other devices on the network.

   Note:
   If there is a server or a router functioning as a gateway, enter the IP address of the server or the router for the gateway address. If there is no gateway, leave the default values there.

6. If you want to get a private address between 169.254.1.1 and 169.254.254.254 automatically when an IP address cannot be obtained by the DHCP server, leave it at **Enable** for **Set Using Automatic Private IP Addressing (APIPA)**; otherwise, select **Disable**.

7. When setting an IP address using the ping command, select **Enable** for **Set Using PING**. Select **Disable** when setting an IP address with EpsonNet Config; this prevents any unexpected change of the IP address.

8. Select **Enable** for **Acquire DNS Server Address Automatically** if you want to acquire the DNS server address using the DHCP server.

   If you want to enter the DNS server address manually, select **Disable** and then enter the IP address of the DNS server.

9. Select **Enable** for **Acquire Host Name and Domain Name Automatically** if you want to acquire the host name and the domain name using the DHCP server.

   If you want to specify manually, enter the host name and the domain name in the text boxes.

10. Select **Enable** for **Register Network Interface Address to DNS Server** if you want to register the host name and domain name to the DNS server through the DHCP server that supports Dynamic DNS.

    If you want to register the host name and the domain name directly to the DNS server, select **Enable** for **Register Network Interface Address Directly to DNS Server**.

11. Select **Enable** or **Disable** for **Use Universal Plug and Play**. Select **Enable** if you want to use the Universal Plug and Play function on Windows Me or future operating systems.

12. Change the default Universal Plug and Play device name, if desired. This device name is used for Windows that supports the Universal Plug and Play function.

13. Mac OS X only:
    Select **Enable** or **Disable** for **Use Bonjour**. If you select **Enable**, enter the Bonjour Name and the Bonjour Printer Name. If your network environment supports DHCP, you can use the printer on the network just by enabling this setting.

14. Click **Submit** and then enter the password to update the settings. See "Password" on page 144 for more information on setting the password.

    Note:
    If you have set the Administrator Name on the Administrator screen, enter the administrator name for the user name.

15. If the message "Configuration change is complete!" appears on your screen, the update is complete. Do not exit the Web browser and do not send a job to the printer until this message appears. Follow the on-screen instructions to reset the printer.

    Note:
    - ❏ *Since the new IP address becomes available after the printer is reset, you need to restart EpsonNet Config by entering the new IP address.*
    - ❏ *Only changes on the page where you press the* ***Submit*** *button take effect.*

Opening Screen

Any user can access the following screen by typing the IP address of the network interface for the URL in your browser.

Note:
The item appears only if your printer supports the function, and the name of the item may vary depending on the model.

Index

Home	Links to the opening screen.
Favorite	Links to a Web site previously defined by the administrator.
Help	Links to Help.
About	Links to the copyright and version information for EpsonNet Config.
EPSON Logo	Links to the Epson Web site (http://www.epson.com).

Menu

Information - Printer*	
Device	Displays the printer device information.
Consumables	Displays the consumables information.
Confirmation	Confirms and executes the Information Sheet, Reserve Job, and Form Overlay.
Input	Displays the paper type information.
Print	Displays the print information.
Emulation	Displays the information for each type of emulation.
Interface	Displays the printer interface information.
Information - Network	
General	Displays the network interface information.
NetWare	Displays information about NetWare.
TCP/IP	Displays information about TCP/IP.
AppleTalk	Displays information about AppleTalk.
MS Network	Displays information about Microsoft Network.
IPP	Displays information about IPP.
SNMP	Displays information about SNMP.
Printing Control	Displays information about Printing Control.
Timeout	Displays information about Timeout.
Time	Displays information about Time.
EDM	Displays the EDM Agent information.
Configuration - Printer*	
Input	Change the input settings.
Print	Change the print settings.
Emulation	Change the emulation settings.
Interface	Change the printer interface settings.
Configuration - Network	
NetWare	Configure the applicable settings for NetWare.
TCP/IP	Configure the desired settings/method for TCP/IP.
AppleTalk	Configure the desired settings for AppleTalk.
MS Network	Configure the desired settings for Microsoft Network.
IPP	Configure the desired settings for IPP.

SNMP	Configure the desired settings for SNMP.
Printing Control	Configure the desired settings for Printing Control.
Timeout	Configure the desired settings for Timeout.
Time	Configure the desired settings for Time.
Configuration - Optional	
Administrator	Type the name of the administrator and a link to a favorite Web site.
Reset	Resets the printer and returns to the default settings.
Password	Set the password to protect settings.

* Large format inkjet printers do not support this function.

Information - Printer Screens

This section explains about the Device and Consumable information screens. See "Configuration - Printer Screens" on page 129 about input, print, emulation, and interface information.

Note:
The item appears only if your printer supports the function, and the name of the item may vary depending on the model.

Device information

Items	**Explanations**
Panel canvas	Displays the same information that is displayed on the printer's control panel.
Signal	A signal shows the status level. The green light is on when the printer is idle or printing. The yellow light is on when the toner or oil roll is low. The red light is on when the printer is out of paper or toner, if paper is jammed, the cover is open, or an error has occurred.
LEDs	The LEDs indicates the current operating printer status when you first turn on the printer, during normal operation, and when errors occur.
Remote Control Panel (Start/Stop, FormFeed, Continue, Reset, and Warmup buttons)	You can control the printer with this Remote Control Panel functions. You can get the same result when you click these buttons as pressing the buttons on your printer. The warnings cannot be cleared by the Continue button.
Printer image	Displays the printer image.
Error information box	Displays error/warning information for the printer.
Printer Model Name	The model name of the printer.
IP Host Name	The IP host name of the printer.

IP Address	The IP address of the printer.
MAC Address	The MAC address of the printer.
Memory	The installed memory size of the printer.
HDD	Capacity of the hard disk installed in the printer.

Consumables information

Items	**Explanations**
Total Pages Printed	Total number of pages that have been printed.
Color Pages Printed	Total number of color pages that have been printed.
Monochrome Pages	Total number of monochrome pages that have been printed.
Cyan, Magenta, Yellow, and Black Toner	The amount of remaining cyan, magenta, yellow, or black toner in each imaging cartridge.
Toner	The amount of remaining toner in an imaging cartridge.
Photoconductor Unit	The amount remaining in the photoconductor unit.
Transfer Unit	The amount remaining in the transfer unit.
Waste Toner	The amount of waste remaining.
Fuser Unit	The amount remaining in the fuser unit.

Confirmation

Information Sheet

Items	**Explanations**
Menu Selection	Select Information Sheet.
Information Sheet	Select an information sheet you want to print.
Print button	Press this button to print a information sheet you select.

Reserve Job

Items	**Explanations**
Menu Selection	Select Reserve Job.
User Name	Select a user name. The user's jobs will be listed in the print job list box.
Job List	Select whether the list of the thumbnail image is used.
Job list box	The print jobs of the selected user are listed in this box.

Prev. Page button	Appears in the thumbnail view. It displays the previous page of the job list.
Next Page button	Appears in the thumbnail view. It displays the next page of the job list.
Job Name	Displays the name of the selected job.
Document	Displays the document name of the selected job.
Date	Displays the date when the selected job was sent to the printer.
Job Type	Displays the type of the selected job.
Quantity	Displays the number of copies.
Pages	Displays the number of pages of the selected job.
Paper Size	Displays the paper size of the selected job.
Preview	Preview the selected file.
Rotate Left button	Rotate the preview image 90 degrees to the left.
Rotate Right button	Rotate the preview image 90 degrees to the right.
Delete button	Delete the selected job.
Quantity	Enter the number of copies.
Print button	Print the selected job.
Refresh button	Refresh the status.

Form Overlay

Items	**Explanations**
Menu Selection	Select Overlay Form.
Form List	Select whether the list of the thumbnail image is used.
Form list box	Lists the form overlay.
Prev. Page button	Appears in the thumbnail view. It displays the previous page of the list.
Next Page button	Appears in the thumbnail view. It displays the next page of the list.
Form Information	Displays the form name, date, and comment of the selected form overlay.
Preview	Preview the selected form overlay.
Rotate Left button	Rotate the preview image 90 degrees to the left.
Rotate Right button	Rotate the preview image 90 degrees to the right.
Delete button	Delete the selected form overlay.
Print button	Print the selected form overlay.
Refresh button	Refresh the status.

Configuration - Printer Screens

This section gives the printer information. Using EpsonNet Config, you can make some of the same printer settings that you can set using the printer's control panel. See the User's Guide for more information on each item.

Note:

- ❏ *The item appears only if your printer supports the function, and the name of the item may vary depending on the model.*
- ❏ *A password is required when you click items under Printer on the Configuration menu.*

Input

Items	Explanations
MP Mode	Select the priority order of paper feeding from MP Tray.
MP Tray Paper Size	Select the paper size for MP Tray.
LC Paper Size	Displays the currently loaded paper size in the lower paper cassette.
MP Tray Paper Type	Select the paper type for MP Tray.
LC Paper Type	Select the paper type for the lower paper cassette.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Print

Setup Menu

Items	Explanations
Menu Selection	Select Setup.
Interface Time Out	Enter the length of the printer waits when it is on line and no new data is received. When this time is up, the printer searches for new print data on other channels.
Language	Select the displayed language.
Panel Lock	Select locking of the printer's control panel. If you select on, the printer's control panel is locked.
Toner Out	Select whether to continue printing when the toner is out.
LCD Contrast	Adjust the contrast of the LCD display.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Printing Menu

Items	Explanations
Menu Selection	Select Printing.
Paper Source	Select the paper source.
Paper Size	Select the paper size for printing.
Wide A4	Select whether the printer accepts wide A4 paper for printing.
Orientation	Select whether the page is printed in portrait or landscape orientation.
Copies	Enter the number of copies to be printed.
Manual Feed	This item selects manual feed mode.
Resolution	Select the resolution.
Skip Blank Page	Select whether to skip a blank page.
Auto Eject Page	Select whether to eject pages automatically.
Duplex	Select whether to print on both sides of paper. This setting is available only when the Duplex Unit is installed.
Binding	Specify the binding direction of the printout. This setting is available only when the Duplex Unit is installed.
Start Page	Specify whether printing starts from the front or back side of the page. This setting is available only when the Duplex Unit is installed.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Configuration Menu

Items	Explanations
Menu Selection	Select Configuration.
RITech	Select whether to adjust the RITech setting. RIT produces smoother and crisper lines, text, and graphics.
Toner Save	Select whether to save toner. When on, the printer consumes less toner but print quality is reduced.
Density	Select the density for printing.
Top Offset	Enter a value to adjust the printing start position from the top on the paper.
Left Offset	Enter a value to adjust the printing start position from the left on the paper.
Top Offset B	Enter a value to adjust the vertical printing position on the back side when printing on both sides. Available only when the Duplex Unit is installed.

Left Offset B	Enter a value to adjust the horizontal printing position on the back side when printing on both sides. Available only when the Duplex Unit is installed.
Size Ignore	Select whether a paper size error is ignored.
Auto Continue	Select whether to permit the printer to automatically continue printing after a certain period of time when one of the following error occurs: paper set, print overrun, or insufficient memory error.
Page Protect	Select whether to allocate additional printer memory for printing data, as opposed to receiving it.
Image Optimum	Reduces the amount of graphics data when the data reaches the memory limit, allowing complex documents to be printed.
Paper Type	Select the paper type.
Paper Side	When you print on thick or extraThk paper or envelope, select the paper side to be printed.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Clock Menu

Items	**Explanations**
Menu Selection	Select Clock.
Date	Set the current year, month, and day.
Time	Set the current time.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Support Menu

Items	**Explanations**
Menu Selection	Select Support.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Color Registration Menu

Items	**Explanations**
Menu Selection	Select Color Registration.
Registration Sheet	Click the Print button to print a registration sheet.

Cyan Registration	Set the value between -7 and 7.
Magenta Registration	Set the value between -7 and 7.
Yellow Registration	Set the value between -7 and 7.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Emulation

PS3 Emulation

Items	**Explanations**
Emulation	Select PS3. This menu appears only when PS3 is installed.
Error Sheets	Select whether to print an error sheet when any error occurs while the printer is in PS3 emulation mode.
Coloration	Specify the printing methods from Color, Mono, or True Color.
Image Protect	Select whether to compress data when memory is low during printing.
Binary	Specify the data format. Select On for binary data and select Off for ASCII data.
Text Detection	Select whether to convert text files to postscript files when printing.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

LJ4 Emulation

Items	**Explanations**
Emulation	Select LJ4.
Font Source	Select the default font source.
Font Number	Type the default font number from the default font source.
Pitch	Type the default font pitch if the font is scalable and fixed-pitch.
Height	Type the default font height if the font is scalable and proportional.
Symbol Set	Select the default symbol set.
Form	Type the number of lines for the selected paper size and orientation.
Source Symbol Set	Available only when an optional font ROM is installed.
Dest Symbol Set	Available only when an optional font ROM is installed.

CR Function	Select CR (carriage-return) or CR+LF (carriage-return/line-feed) operation whenever the print position exceeds the right margin.
LF Function	Select LF (line-feed) or CR+LF (carriage-return/line-feed) operation to add a line feed to each carriage return it receives.
Tray Assign	Select the tray assigning from 4, 4K, or 5S. When 4, 4K, and 5S are selected, LaserJet 4 Compatible, LaserJet 4000/5000/8000 Compatible, and LaserJet 5 Si Compatible are available respectively.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

GL2 Emulation

Items	**Explanations**
Emulation	Select GL2.
GL-Mode	Select whether the emulation is similar to the GL/2 or the HP LaserJet 4 emulation of the GL/2.
Scale	Select whether the output from the software is scaled, and if so, how the scale factor is calculated: based on the output paper size of the software application.
Origin	Select whether the logical origin of the "plotter" is from the corner or the center of the paper.
Pen	Select the logical "pen" which "plots" the drawing.
End	Select the way in which lines end.
Join	Select the way in which lines are joined.
Pen (0 to 6)	Select the thickness of the seven "pens" used to make the printout.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

ESCP2 and FX Emulation

Items	**Explanations**
Emulation	Select ESCP2 or FX.
Font	Select a font which is used for printing.
Pitch	Select a character pitch.
Condensed	Use this option to change the character spacing.
T. Margin	Use this option to specify the distance from the top of the sheet to the baseline of the first printable line.
Text	Use this option to set the page length in lines.

CG Table	Use the character generator table option to select the graphics character table, or the italics table.
Country	Use this option to select one of the international symbol sets.
Auto CR	Use the automatic carriage return option to perform a carriage-return line-feed (CR-LF) operation whenever the print position exceeds the right margin.
Auto LF	When you set AutoLF to Off, the printer does not send an automatic line feed (LF) command with each carriage return (CR). When on, the printer adds a line feed to each carriage return it receives.
Bit Image	With Bit Image set to Dark or Light, your printer can correctly emulate the graphics densities set with the printer command. When you select Dark, the bit image density is high. When you select Light, the bit image density is low.
Zero Char	Select whether the printer prints a slashed zero or an unslashed zero.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

1239X Emulation

Items	**Explanations**
Emulation	Select 1239X.
Font	Select a font.
Pitch	Select a character pitch.
Code Page	Selects the character tables. Character tables contain the characters and symbols used in different languages.
T. Margin	Use this option to specify the distance from the top of the sheet to the baseline of the first printable line.
Text	Use this option to set the page length in lines.
Auto CR	Use the automatic carriage return option to perform a carriage-return line-feed (CR-LF) operation whenever the print position exceeds the right margin.
Auto LF	When you set AutoLF to Off, the printer does not send an automatic line feed (LF) command with each carriage return (CR). When on, the printer adds a line feed to each carriage return it receives.
Alt. Graphic	Turns the Alternate Graphics option on or off.
Bit Image	With Bit Image set to Dark or Light, your printer can correctly emulate the graphics densities set with the printer command. When you select Dark, the bit image density is high. When you select Light, the bit image density is low.
Zero Char	Select whether the printer prints a slashed zero or an unslashed zero.
Character Set	Select character table.

Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Interface

Parallel Interface

Items	**Explanations**
Parallel I/F	Allows you to activate or deactivate the parallel interface.
Speed	Select the transfer speed.
Bi-Directional	Enable or disable bidirectional communication.
Buffer Size	Select the amount of memory to be used for receiving and printing data.

Network Interface

Items	**Explanations**
Network I/F	Network I/F (network interface) is always on.
Buffer Size	Select the amount of memory to be used for receiving and printing data.

AUX Interface

Items	**Explanations**
AUX I/F	Not available unless an optional network interface is installed.
Buffer Size	Select the amount of memory to be used for receiving and printing data. Available only when an optional network interface is installed.

USB Interface

Items	**Explanations**
USB I/F	Allows you to activate or deactivate the USB interface.
USB Speed	Select the mode, either HS or FS.
Buffer Size	Select the amount of memory to be used for receiving and printing data.
Set button	Saves any changes.
Refresh button	Clears any changes and reloads the previous settings.

Information - Network Screens

Note:
The item appears only if your printer supports the function, and the name of the item may vary depending on the model.

General information

Items	Explanations
Administrator Name	Administrator name of the printer
Location	Location of the printer
Interface Card Model Name	Model of the network interface
MAC Address	Unique hardware address of the network interface. You can distinguish the network interface by its MAC address.
Hardware Version	Hardware version of the network interface
Software Version	Software version of the network interface
Model Name	Product name of the printer attached to the network interface
Network Status	Displays the current Ethernet speed and duplex setting.
Printer Status	The background color of the text box indicates the printer's status. Green indicates that the printer is idle or printing. Yellow indicates that either the paper or toner is low. Red indicates that either the paper or toner is completely out, the printer is offline, there is a paper jam, the cover is open, or an error has occurred.
Current Time	Displays the current time.
Refresh button	Refreshes the printer status. The printer status is not updated automatically. Press Refresh to display the latest printer information.

Configuration - Network Screens

Note:
The item appears only if your printer supports the function, and the name of the item may vary depending on the model.

NetWare

NetWare Basic Settings

Items	Explanations
Use NetWare	Enable or Disable NetWare.
Frame Type	Leave the default frame type (Auto) as it is.
Mode	Select the appropriate NetWare mode.

Print Server Mode/NDS/Bindery

Items	Explanations
Print Server Name	Enter the print server name (up to 47 characters).
Polling Interval	Enter the polling interval in seconds.
NetWare Password	Enter the password (up to 20 characters) you use when you log in to the print server.
NDS Tree Name	Enter the NDS tree name (up to 31 characters) if the mode is NDS Print Server.
NDS Context	Enter the NDS context (up to 255 characters) if the mode is NDS Print Server.
Primary File Server Name	If the mode is Bindery Print Server, enter the file server name (up to 47 characters) where you log in to the print server.

Remote Printer Mode

Items	Explanations
Primary Print Server Name	Enter the primary print server name (up to 47 characters).
Printer Port Number	Enter the printer port number (0 to 254).

TCP/IP

IP Address Settings

Items	Explanations
Method for Acquiring the IP Address	Select a method for acquiring IP addresses. If Auto is selected, DHCP becomes available. To use the DHCP server, make sure it is installed on your computer and correctly configured. See your operating system's online help for detailed instructions. To set the IP address manually, select Manual.
IP Address	Enter an IP address for the network interface. Be sure the IP address does not conflict with any other devices on the network.
Subnet Mask	Set the subnet mask.
Default Gateway	Set the gateway address if needed.
Set Using Automatic Private IP Addressing (APIPA)	Select Enable to get a private address between 169.254.1.1 and 169.254.254.254 automatically when an IP address cannot be obtained by the DHCP server; otherwise, select Disable.
Set Using PING	Enables or disables IP address setting using the ping command.

DNS Server Address Settings

Items	Explanations
Acquire DNS Server Address Automatically	Select either Enable or Disable to acquire the DNS server address from the DHCP server.
DNS Server Address	Enter the DNS server address. When the DHCP server does not respond even Enable is selected for Acquire DNS server address automatically, the DNS server address set here is used.

Host Name and Domain Name Settings

Items	Explanations
Acquire Host Name and Domain Name Automatically	Select either Enable or Disable to acquire the host name and domain name from the DHCP server.
Host Name	Enter the host name supported by Dynamic DNS (between 2 and 63 characters). The total number of characters of the host name and the domain name must not exceed 251.
Domain Name	Leave it blank or enter two or more characters of the domain name. The total number of characters of the host name and the domain name must not exceed 251.
Register Network Interface Address to DNS Server	Select Enable if you want to send the host name and the domain name to the DHCP server that supports Dynamic DNS update to request for DNS dynamic updates.

Register Network Interface Address Directly to DNS Server	Select Enable if you want to directly send the host name and the domain name to the DNS server that supports Dynamic DNS update to request for DNS dynamic updates.When Register the network interface's address to DNS server is Disable, then this setting is the same as Disable.

Universal Plug and Play Settings

Items	**Explanations**
Use Universal Plug and Play	Enables or disables Universal Plug and Play.
Device Name	Enter the device name (between 2 and 63 characters).

Bonjour Settings

Items	**Explanations**
Use Bonjour	Select either Enable or Disable to use Bonjour.
Bonjour Name	Enter the Bonjour name.
Bonjour Printer Name	Enter the printer name for Bonjour.

SLP Settings

Items	**Explanations**
Use SLP	Select either Enable or Disable to use the SLP function.
TTL (-1, 1-15)	Enter the number of routers through which a packet can travel before being discarded or returned when using the SLP function. If you do not want to use the TTL setting, enter -1.

Note:
Large format inkjet printers do not support this function.

AppleTalk

Items	Explanations
Use AppleTalk	Enable or Disable AppleTalk.
Printer Name	Enter the name of the printer attached to the network interface (up to 32 characters).
Zone Name	Enter the network zone name (up to 32 characters). To have the zone selected automatically, select Auto for the Network Number Set and enter an asterisk (*) in this text box.
Entity Type	Displays the printer's entity type. Do not change the entity type unless "epson" appears. If "epson" appears, enter an entity type to match your printer.
Network Number Set	Select Auto or Manual. Usually Auto is recommended.
Network Number for Manual Mode	Enter the network number when you select to set the Network Number manually.

MS Network

Items	Explanations
Use Microsoft Network Shared Printing	Enable or Disable Microsoft network.
Print Server Name	Enter the print server name, which is the name of a computer on the network (up to 15 characters). Be sure to give a name that is unique on the network.
Workgroup Name	Enter the workgroup name or domain name (up to 15 characters).
Share Name	Enter the printer's shared name (up to 12 characters). LPT1, LPT2, or LPT3, or COM cannot be used.

IPP

You must make the following settings before setting up the printer for Internet Printing on Windows Vista/XP/Me/Server 2003/2000 or using EpsonNet Internet Print on Windows 98/95/NT 4.0. See "About EpsonNet Internet Print" on page 159 for more information.

Items	Explanations
IPP URL	Displays the printer's URL for Internet Printing. **Format:** http://IP address of printer:631/printer name set below **Example:** http://192.168.100.201:631/EPSON_IPP_Printer

Printer Name	Enter the name of a printer to use for Internet Printing. **Example:** EPSON_IPP_Printer
Location	Enter the name of the printer's physical location.

SNMP

Community

Items	**Explanations**
Community	Displays the community name.
Read Only	The word "public" always appears.
Read/Write	Enter the Read/Write community name (up to 32 characters).

IP Trap

Items	**Explanations**
Trap	Enable or Disable the trap.
Address	Enter the IP address of the server to which the trap is transmitted.
Community	Enter the community name (up to 32 characters).
Port Number	Enter the Port Number of the receive host, in decimal(0-65535).

IPX Trap

Items	**Explanations**
Trap	Enable or Disable the trap.
Address	Enter Network Address and Node Number (MAC Address) of the server to which the trap is transmitted. **Format:** Network Address: Node Number Suppose Network Address is A7E00BB0 (hexadecimal) and Node Number is 000048930000 (hexadecimal). In this case, the address is A7E00BB0:000048930000.
Community	Enter the community name (up to 32 characters).
Socket Number	Enter the Socket Number of the receive host, in hexadecimal(0-FFFF).

Printing Control

Items	Explanations
Printing Control	Enable or Disables the printing control.
Printer Access Control	Select Allow or Deny. Selecting Allow permits the network access from the IP addresses registered on the printer access control list. On the other hand, selecting Deny blocks the network access from the IP addresses registered on the printer access control list.
Printer Access Control List	Enter the IP address ranges by which the network access is restricted.

Timeout

Printing

Items	Explanations
Change Timeout Value	Select this check box when you set the values before a timeout occurs.
LPR	Set the length of time for LPR before a timeout occurs (between 0 and 3600 seconds). Enter 0 not to apply the timeout.
RAW (Port9100)	Set the length of time for RAW (Port9100) before a timeout occurs (between 0 and 3600 seconds). Enter 0 not to apply the timeout.
IPP	Set the length of time for IPP before a timeout occurs (between 0 and 3600 seconds). Enter 0 not to apply the timeout.

Time

Items	Explanations
Time	Displays the time. Click the Get Time button to reload the display. When Time Server is Enable, time is acquired from the time server.

Manual Settings

If the network interface has RTC (Real Time Clock), you can set the time manually.

Items	Explanations
Date	Enter the year, month, and day.
Time	Enter the hour, minutes, and seconds.
Time Difference	Enter the difference between time at the present location and Greenwich Mean Time (GMT).
Apply button	Applies the settings.

Time Server Settings

Items	Explanations
Time Server	Select either Enable or Disable to time synchronize from the time server.
Time Server Address	Enter the address of the time server.
Synchronize Interval	Enter the time interval in minutes for automatic time synchronization.
Time Difference	Enter the difference between time at the present location and Greenwich Mean Time (GMT).
Time Server Status	Displays a connection status with the time server.
Apply button	Applies the settings.

EDM

Items	Explanations
EDM	Displays the EDM Agent information.

Optional Screens

Administrator

You can link to the Web site specified on this screen when you click **Favorite** (the name is changeable) in Index.

Items	Explanations
Administrator Name	Enter the name of the administrator (up to 255 characters).
Location	Enter the location of the network interface (up to 255 characters).
Favorite Name	Enter the link item name (up to 20 characters) which will be displayed in the Index menu.
Favorite URL	Enter a URL (up to 64 characters).
Description	Enter any comments concerning the URL above (up to 64 characters).

Note:
Links to ftp are not supported.

Reset

You can reset the network interface or return the settings to the default values.

Items	Explanations
Reset button	Functions like turning the power off and on again. Click this button to make the changes take effect.
Return to Default button	Returns the network interface to the default settings.

Password

The password set here protects the settings. You will be asked for the password when you update or change the settings on each setting screen. Passwords are case sensitive. No password is set by default.

Items	Explanations
Old Password	Input the old password.
New Password	Input the new password (up to 20 characters).
New Password (again)	Re-input the new password.

Note:

❏ *The same password is used for EpsonNet Config for Windows and Macintosh, and EpsonNet Config with Web Browser.*

❏ *If you forget your password, you need to initialize the network interface. See "Initializing Your Printer" on page 176 for instructions.*

EpsonNet Print

About EpsonNet Print

EpsonNet Print is a utility program that provides peer to peer printing to Epson printers on the TCP/IP network.

By using EpsonNet Print, you can find a printer located in the same segment or beyond a router. You can select LPR standard printing, LPR enhanced printing, or High-speed printing.

System Requirements

The following table lists the system requirements of EpsonNet Print.

Operating systems	Windows Vista Windows XP Home Edition/Professional (with Service Pack 1 or higher) Windows Me, 98, 98 Second Edition Windows 95 OSR2 (with Internet Explorer version 5.0 or higher) Windows Server 2003 Windows 2000 (with Service Pack 4 or higher) Windows NT 4.0 (with Service Pack 6 or higher)
CPU	Pentium II 400 MHz or better recommended
Memory	64 MB or more
Hard disk space	20 MB or more
Display	800 × 600 screen resolution, 256 color or more

Installing EpsonNet Print

Follow the steps below to install EpsonNet Print. Be sure to install it on a computer connected to the network.

Note:
If EpsonNet Direct Print (the older version of EpsonNet Print) is already installed on your computer, you need to uninstall it before installing EpsonNet Print (the installation program will lead you through uninstalling EpsonNet Direct Print 2).

1. Insert the Software CD-ROM in the CD-ROM drive.
2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.
3. Make sure that all applications are closed, and then click the **Install Network Utility** button.
4. Click the icon located next to EpsonNet Print.
5. Follow the on-screen instructions to complete the installation.

Your computer is now set up to print using LPR via EpsonNet Print. See the next section to set up your printer.

For Windows Vista/XP/Server 2003/2000/NT 4.0 Users

Follow the steps below to add a port using the Add Printer Wizard.

- ❏ If you want to add a port for a printer with its IP address assigned automatically by the DHCP server or router, see Adding a port for a printer assigned with a dynamic IP address.
- ❏ If you want to add a port for a printer with its IP address assigned manually, see Adding a port for a printer assigned with a static IP address.

Note:
- ❏ *Be sure that the computer is connected to the network and TCP/IP is correctly set.*
- ❏ *Be sure that the target Epson printer driver is installed on the computer.*
- ❏ *A valid IP address must be assigned to the printer.*

Adding a port for a printer assigned with a dynamic IP address

1. **For Windows Vista:** Click **Start**, **Control Panel**, and then **Printer**. Click **Add a printer** to start the Add Printer wizard.

   For Windows XP: Click **Start** and then **Printers and Faxes**. Under Printer Tasks, click **Add a printer** to start the Add Printer Wizard. Click **Next**.

   For Windows Server 2003: Click **Start** and then **Printers and Faxes**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

   For Windows 2000: Click **Start**, point to **Settings**, and then select **Printers**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

   For Windows NT 4.0: Click **Start**, point to **Settings**, and then select **Printers**. Double-click the **Add Printers** icon. Click **Next**.

2. **For Windows Vista:** Click **Add a local printer**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

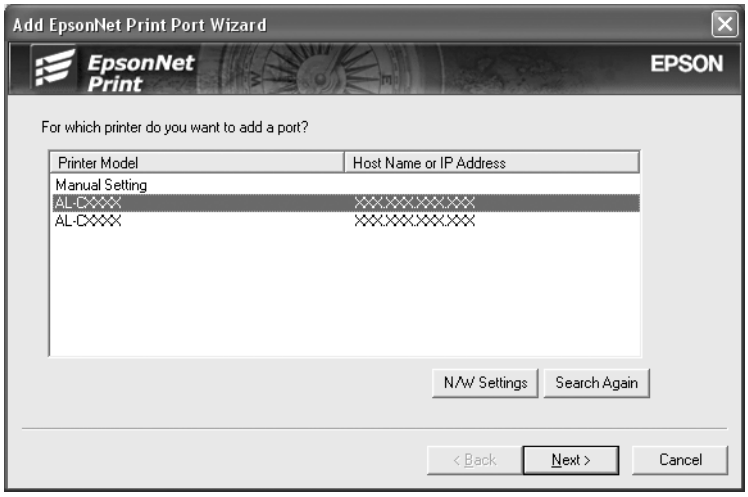
   For Windows XP/Server 2003: Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

   Note:
   *If the following screen appears, click the **Unblock** button, and then click the **Search Again** button to search the printers.*

   For Windows 2000: Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

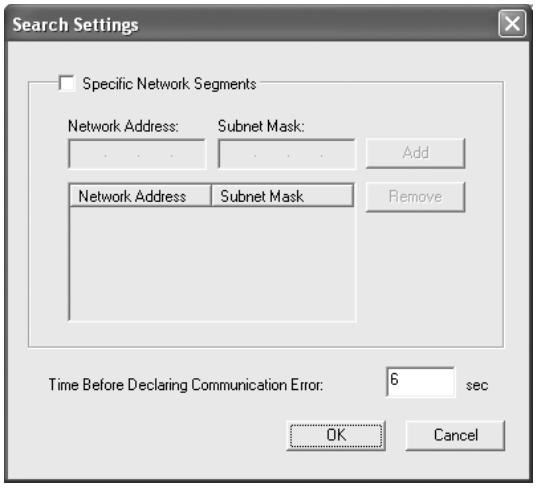
For Windows NT 4.0: Select the **My Computer** radio button, and then click **Next**. Click the **Add Port** button in the Add Printer wizard dialog box. Select **EpsonNet Print Port** from the Available Printer Port list, and then click the **New Port** button.

3. Select the target printer, and then click **Next**.



Note:

- ❏ *If the target printer is not in the list, click the **Search Again** button to search the printers using new parameters.*
- ❏ *If you want to search printers in other segments, click the **N/W Settings** button. Select the **Specific Network Segments** check box, and then enter the network address and subnet mask of the network segment for the search. Then click the **Add** button. You can also specify the time before declaring communication error.*



4. Confirm the information about the printer's port you want to configure, and then click **Finish**.

Items	Explanations
Port Type	The following items are listed in the pull-down menu, and you can select the port type you need. **IP Address(Auto):** Configure the port automatically. If the IP address of the printer is acquired automatically and the computer and the printer are in the same segment, you can select this port type. **IP Address(Manual):** Use the printer's IP Address for the port name. **HostName (DNS):** Use the printer's host name registered in the DNS server for the port name. **MS Network:** Use the NetBIOS name registered in the printer for the port name.
The port Information	The following items are displayed: - Port Name (If the port type is changed, the port name and the host name or IP address are also changed.) - Printer Model - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

You need to install the printer driver. See "Installing the Printer Driver" on page 152.

Adding a port for a printer assigned with a static IP address

1. **For Windows Vista:** Click **Start**, **Control Panel**, and then **Printer**. Click **Add a printer** to start the Add Printer wizard.

   For Windows XP: Click **Start** and then **Printers and Faxes**. Under Printer Tasks, click **Add a printer** to start the Add Printer Wizard. Click **Next**.

   For Windows Server 2003: Click **Start** and then **Printers and Faxes**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

   For Windows 2000: Click **Start**, point to **Settings**, and then select **Printers**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

   For Windows NT 4.0: Click **Start**, point to **Settings**, and then select **Printers**. Double-click the **Add Printers** icon. Click **Next**.

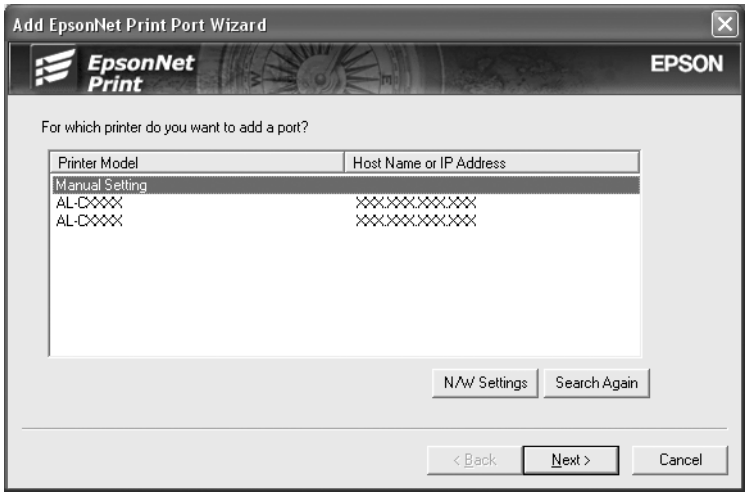
2. **For Windows Vista:** Click **Add a local printer**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

   For Windows XP/Server 2003: Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

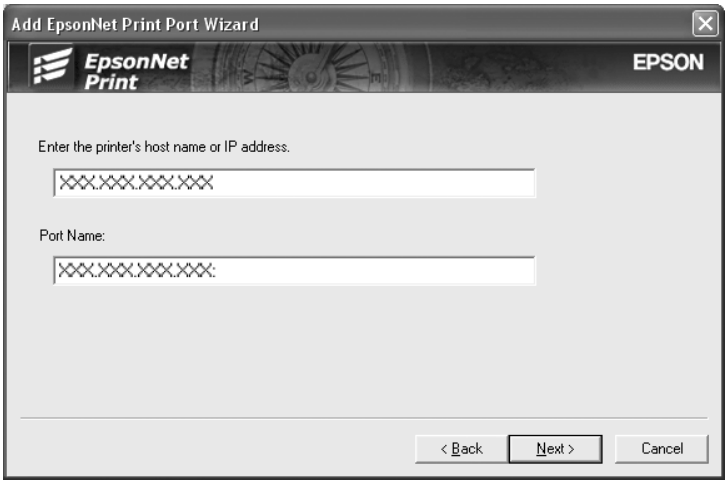
   For Windows 2000: Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

   For Windows NT 4.0: Select the **My Computer** radio button, and then click **Next**. Click the **Add Port** button in the Add Printer wizard dialog box. Select **EpsonNet Print Port** from the Available Printer Port list, and then click the **New Port** button.

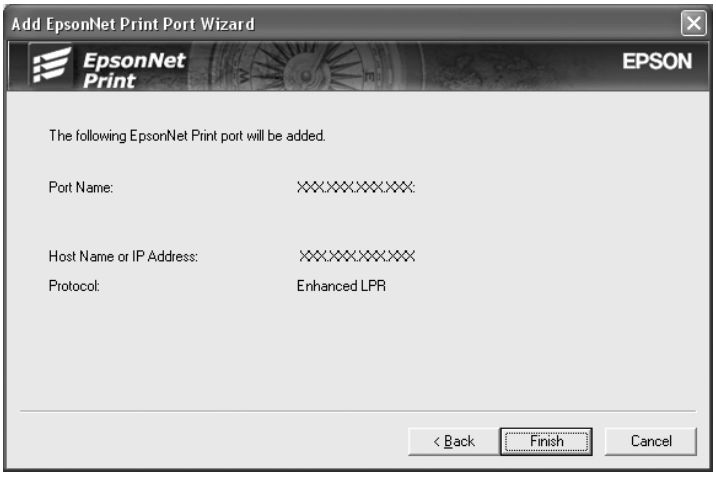
3. Select **Manual Setting** from the list, and then click **Next**.



4. Enter the printer's name and the port name is automatically entered to the Port Name edit box. Then click **Next**.



5. Confirm the information about the printer's port you want to configure, and then click **Finish**.



Items	Explanations
The port Information	The following items are displayed: - Port Name - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

You need to install the printer driver. See "Installing the Printer Driver" on page 152.

Installing the Printer Driver

Install the printer driver that comes with your printer.

1. Insert the Software CD-ROM shipped with the printer.
2. Close the EPSON Installation Program screen if it appears.
3. Click the **Have Disk** button. The Install From Disk dialog box appears.
4. Click **Browse**.
5. Select the CD-ROM drive for Drives, and double-click the appropriate folder for your operating system. Click **OK**.

6. Click **OK** in the Install From Disk dialog box.

7. Select the model name of the printer, and then click **Next**.

   Note:
   *If the Add Printer wizard asks you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button. Click **Next**.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

The printer is now ready for peer-to-peer printing. To configure the printer port, see "Configuring the Printer Port" on page 157.

For Windows Me/98/95 Users

Follow the steps below to add a port using the Add Printer Wizard.

- ❏ If you want to add a port for the printer with its IP address assigned automatically from the DHCP server or router, see Adding a port for a printer assigned with a dynamic IP address.
- ❏ If you want to add a port for the printer with its IP address assigned manually, see Adding a port for a printer assigned with a static IP address.

Note:
- ❏ *Be sure that the computer is connected to the network and TCP/IP is correctly set.*
- ❏ *Be sure that the target Epson printer driver is installed on the computer.*
- ❏ *A valid IP address must be assigned to the printer.*

Adding a port for a printer assigned with a dynamic IP address

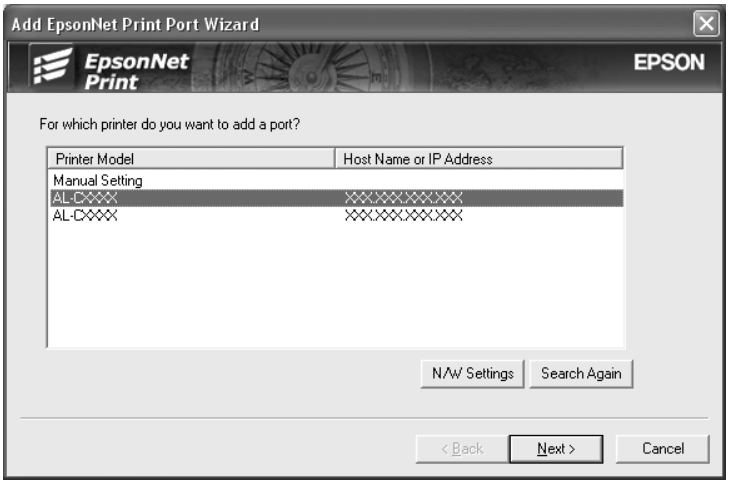
Install the printer driver before adding a port for the printer. See the manual shipped with your printer for instructions on how to install the printer driver.

1. Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the target printer icon, and then select **Properties**.

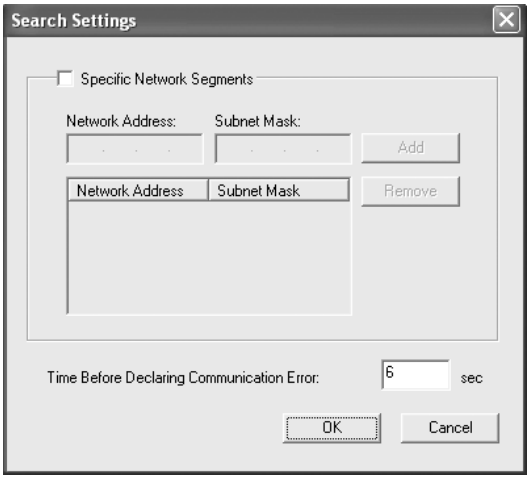
3. Click the **Details** tab, and then click the **Add Port** button. Select the **Other** radio button, and then select **EpsonNet Print Port**. Click **OK**.

4. Select the target printer, and then click **Next**.



Note:

- ❏ *If the target printer is not in the list, click the **Search Again** button to search the printers using new parameters.*
- ❏ *If you want to search printers in other segments, click the **N/W Settings** button. Select the **Specific Network Segments** check box, and then enter the network address and subnet mask of the network segment for the search. Then click the **Add** button. You can also specify the time before declaring communication error.*



5. Confirm the information about the printer's port you want to configure, and then click **Finish**.

Items	Explanations
Port Type	The following items are listed in the pull-down menu, and you can select the port type you need. **IP Address(Auto):** Configure the port automatically. If the IP address of the printer is acquired automatically and the computer and the printer are in the same segment, you can select this port type. **IP Address(Manual):** Use the printer's IP Address for the port name. **HostName (DNS):** Use the printer's host name registered in the DNS server for the port name. **MS Network:** Use the NetBIOS name registered in the printer for the port name.
The port Information	The following items are displayed: - Port Name (If the port type is changed, the port name and the host name or IP address are also changed.) - Printer Model - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

The printer is now ready for peer-to-peer printing. To configure the printer port, see "Configuring the Printer Port" on page 157.

Adding a port for a printer assigned with a static IP address

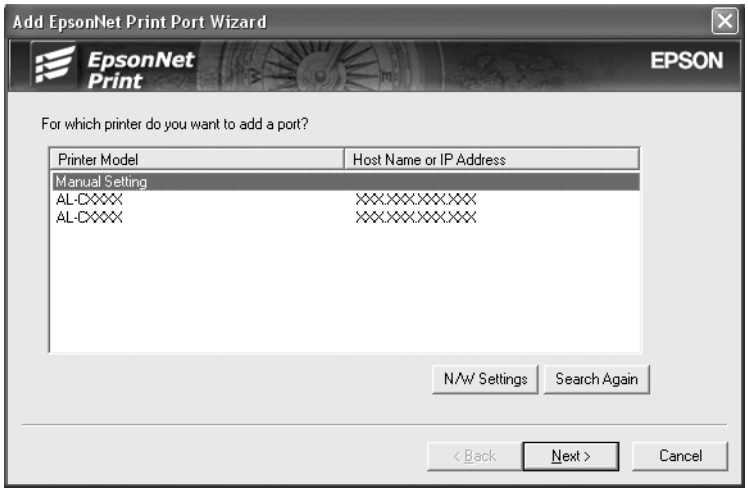
Install the printer driver before adding a port for the printer. See the manual shipped with your printer for instructions on how to install the printer driver.

1. Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the target printer icon, and then select **Properties**.

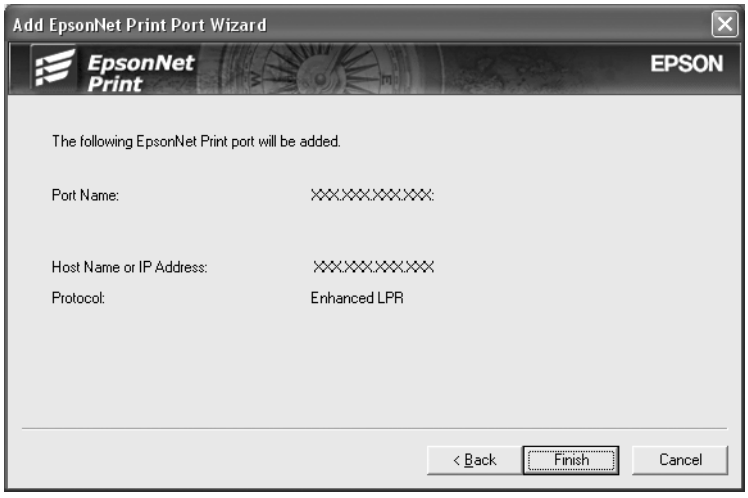
3. Click the **Details** tab, and then click the **Add Port** button. Select the **Other** radio button, and then select **EpsonNet Print Port**. Click **OK**.

4. Select **Manual Setting** from the list, and then click **Next**.



5. Enter the printer's name and the port name is automatically entered to the Port Name edit box. Then click **Next**.

6. Confirm the information about the printer's port you want to configure, and then click **Finish**.



Items	Explanations
The port Information	The following items are displayed: - Port Name - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

Configuring the Printer Port

Follow the steps below to configure the printer port. The printing speed differs depending on your selection.

1. For Windows Vista:
   Click **Start**, **Control Panel**, and then **Printer**.

   For Windows XP/Server 2003:
   Click **Start** and then **Printers and Faxes**.

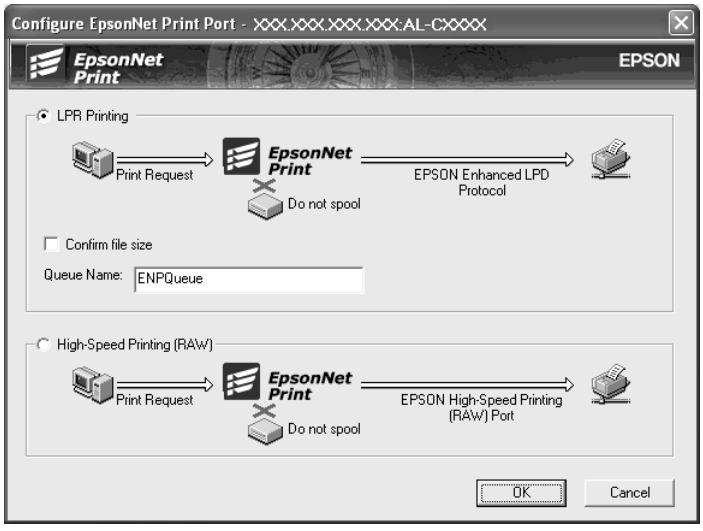
   For Windows Me/98/95/2000/NT 4.0:
   Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the target printer, and then click **Properties**.

3. For Windows Vista/XP/Server 2003/2000/NT 4.0:
   Click the **Ports** tab, and then click the **Configure Port** button.

   For Windows Me/98/95:
   Click the **Details** tab, and then click the **Port Settings** button.

4. Make the appropriate settings for the desired port.



LPR enhanced printing:
Select the **LPR Printing** radio button, and then specify the queue name (up to 32 characters). LPR enhanced printing sends a print job to the target network printer without spooling all of the print data. LPR enhanced printing is faster than LPR standard printing.

LPR standard printing:
Select the **Confirm file size** check box, and then specify the queue name (up to 32 characters). Print data is spooled by the computer before being sent to the target network printer.

Note:
When the print data size is 20 MB or more, we recommend that you use LPR enhanced printing.

High-speed printing:
Select the **High-Speed Printing (RAW)** radio button. The Epson high-speed printing port sends a print job to the target network printer without spooling all of the print data. High-Speed printing is faster than the other two printing methods.

5. Click **OK**.

   If you select the **High-Speed Printing (RAW)** radio button and if the printer does not support High-Speed printing, or if you fail to connect to the printer, an error message appears. Follow the message to remedy the problem.

EpsonNet Internet Print

About EpsonNet Internet Print

EpsonNet Internet Print is a utility program that supports printing across the Internet using Internet Printing Protocol (IPP). Since the network interface supports IPP, Internet printing is possible using this utility. You can print or make printer settings from Windows 98/95/NT 4.0 systems that can access the Internet. You can also print via a proxy server using this utility.

Before using the EpsonNet Internet Print utility, be sure to read the Readme.txt file found in the EpsonNet Internet Print folder. This file contains the latest information on the EpsonNet Internet Print.

Note:

- *EPSON Status Monitor is a utility program that monitors your printer and gives you information about its current status. Because this utility does not support IPP, printers connected to the Internet cannot be monitored with EPSON Status Monitor. If you use EpsonNet Internet Print on a computer which has EPSON Status Monitor installed, a communication error message may appear when you view printer properties. To avoid this, click the* ***Optional Settings*** *tab in the target printer's properties dialog box and click the* ***Update the Printer Option Information Manually*** *radio button.*
- *For Windows XP, Me, and 2000, use the OS standard IPP client for the Internet printing.*

System Requirements

Operating systems

- Windows 98, Windows 95, or Windows NT 4.0 Server and Workstation
- An Intel x86 series or compatible processor

Supported products

- Epson network interfaces that support IPP (EpsonNet Internet Print comes with Epson network interface products that support IPP)

Installing EpsonNet Internet Print

Follow the steps below to install EpsonNet Internet Print.

1. Insert the Software CD-ROM in the CD-ROM drive.
2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.
3. Make sure that all applications are closed, and then click the **Install Network Utility** button.
4. Click the icon located next to EpsonNet Internet Print.
5. Follow the on-screen instructions to complete the installation.
6. Restart the computer after the installation is complete.

Setting Up Your Printer Using EpsonNet Internet Print

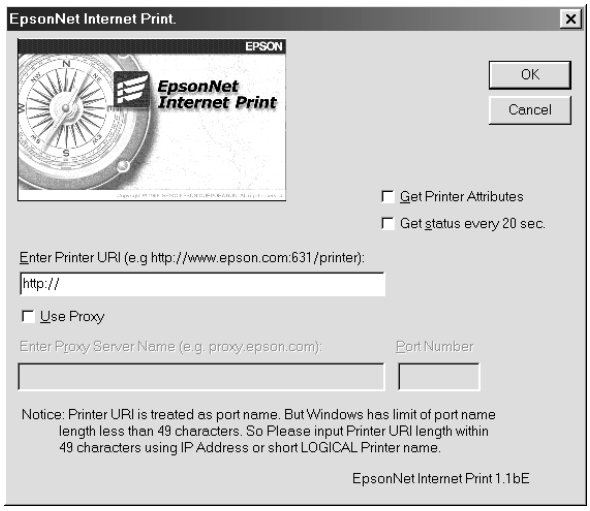
EpsonNet Internet Print supports printing across the Internet using Internet Printing Protocol. Follow the steps below to set up the printer.

Note:
Before following the steps below, you must make the appropriate IPP settings in EpsonNet Config. See the EpsonNet Config User's Guide or "IPP" on page 140 for instructions on setting up IPP. In the steps below, you will be asked for the IPP URL you set in the IPP setting screen in EpsonNet Config.

Windows 98/95

1. Make sure that TCP/IP is correctly installed and setup in the computer and a valid IP address is set for the computer and printer.
2. Make sure that the IPP settings in EpsonNet Config are correct. See the EpsonNet Config User's Guide or "IPP" on page 140 for instructions on settings for IPP.
3. To start EpsonNet Internet Print, click **Start**, point to **Programs** and then **EpsonNet Internet Print**, then click **Add EpsonNet Internet Print Port**.

4. The following screen appears. The address you set here becomes the port for Internet printing. Make the settings described below.



Enter Printer URI:
Enter the target printer's URI up to 49 characters. The URI you set here must be same as the IPP URL you have set for the IPP setting screen in EpsonNet Config. Do not use the following characters; | \ [ ] { } < > # " `
Format: **http:**//IP address of printer: **631**/printer name
Example: **http:**//192.168.100.201: **631**/EPSON_IPP_Printer

Use Proxy:
When using the proxy server, select this box and enter the Proxy Server Name and Port Number. All communication is done via the proxy server.

Enter Proxy Server Name:
Enter the proxy server name or the IP address of the proxy server. You can enter up to 256 characters, but only 127 characters are valid. Do not use the following characters; | \ [ ] { } < > # " `

Port Number:
Enter the port number of the proxy server (from 0 to 65535).

Get Printer Attributes:
When you select this box and click **OK**, EpsonNet Internet Print communicates with the printer and acquires information, so it may take a few minutes before a message appears. This setting is available only when creating a port.

Get status every 20 sec.:
Select this box when you want to receive printer status updates at regular intervals (every 5 seconds during printing and every 20 seconds when idle). If you select this box, a message will appear if an error occurs during printing. You can also check the printer status by double-clicking the printer icon.

OK button:
Saves the settings.

Cancel button:
Cancels any changes.

Note:

- ❏ *The settings you make above can be changed from the printer driver. In the printer Properties dialog box, click the **Details** tab, and click the **Port Settings** button to change the settings.*
- ❏ *Be aware that when connecting to the Internet using a dial-up router and selecting the **Get status every 20 sec** check box, you may be charged for the extra line connection.*
- ❏ *When you check the **Get Printer Attributes** check box and click **OK**, an error message may appear. Be sure that the printer power is on, and the printer is correctly connected on the network.*
- ❏ *If the printer power is off or there is a problem on the network, the **Get status every 20 sec** check box is automatically cleared. If this happens, make sure that the printer power is on and the printer is correctly connected on the network, and then select the **Get status every 20 sec** check box again.*

5. Click **OK** to save settings.

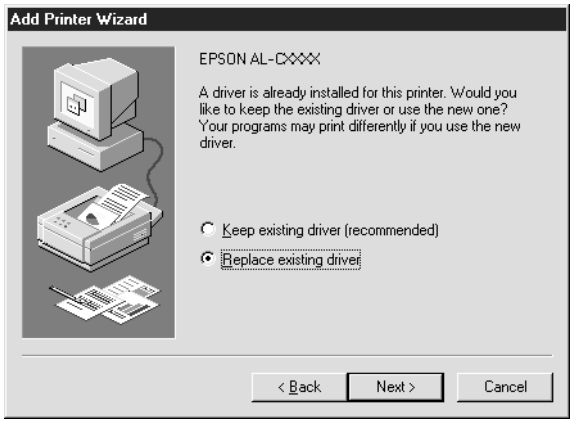
6. When a message appears saying the settings are correctly configured, click **OK** to start the Add Printer Wizard. Click **Next**.

   Note:
   *If you click **Cancel** and then later want to add the printer, start the Add Printer Wizard and follow the steps below.*

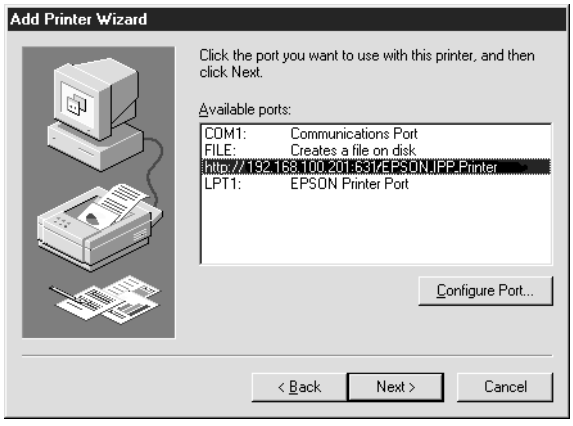
7. Click the **Local printer** radio button and click **Next**.

8. Select the printer driver and click **Next**.

If the following dialog box appears, select **Replace existing driver** and click **Next**.



9. Select the port added by EpsonNet Internet Print in the previous section. Click **Next**.



10. Follow the on-screen instructions to install the printer driver.

11. If a dialog box instructing you to install EPSON Status Monitor appears, click **Cancel** and terminate the installation.

Note:

❏ *If you delete the port which you set above from the **Details** tab of the printer properties, you cannot reuse the deleted port name as a new port name (the printer URI) until you restart the computer.*

❏ *If you are using EPSON Status Monitor and printing with EpsonNet Internet Print, the message "A communication error has occurred." appears. You can get rid of this message by clearing the **Monitor the Printing Status** check box in the Utility menu of the printer properties.*

Windows NT 4.0

1. Be sure that TCP/IP is correctly installed and setup in the computer and a valid IP address is set for the computer and printer.

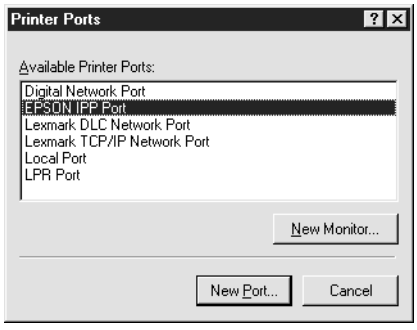
2. Make sure that the IPP settings in EpsonNet Config are correct. See the EpsonNet Config User's Guide or "IPP" on page 140 for instructions on settings for IPP.

3. Click **Start**, point to **Settings**, and then select **Printers**.

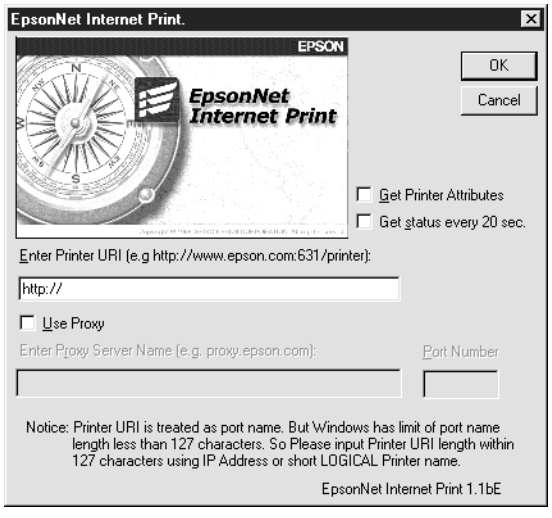
4. Double-click the **Add Printer** icon and click **Next**.

5. Click the **My Computer** radio button and click **Next**.

6. Click the **Add Port** button, and select **EPSON IPP Port** from the list. Then click the **New Port** button.



7. The following screen appears. The address you set here becomes the port for Internet printing. Make the settings described below.



Enter Printer URI:
Enter the target printer's URI (up to 127 characters). The URI you set here must be the same as the IPP URL you set for the IPP configuration in EpsonNet Config. Do not use the following characters; | \ [ ] { } < > # " `
Format: **http:**//IP address of printer: **631**/printer name
Example: **http:**//192.168.100.201: **631**/EPSON_IPP_Printer

Use Proxy:
When using a proxy server, select this box and enter the Proxy Server Name and Port Number. All communication is done via the proxy server.

Enter Proxy Server Name:
Enter the proxy server name or the IP address of the proxy server (up to 256 characters). Do not use the following characters; | \ [ ] { } < > # " `

Port Number:
Enter the port number of the proxy server (from 0 to 65535).

Get Printer Attributes:
When you select this box and click **OK**, EpsonNet Internet Print communicates with the printer and acquires information, so it may take a few minutes before a message appears. This setting is available only when creating a port.

Get status every 20 sec.:
Select this box when you want to receive printer status updates at regular intervals (every 5 seconds during printing and every 20 seconds when idle). If you select this box, a message will appear if an error occurs during printing. You can also check the printer status by double-clicking the printer icon.

OK button:
Saves the settings.

Cancel button:
Cancels any changes.

Note:

- ❏ *The settings can be changed after setting up the printer. In the printer Properties dialog box, click the **Ports** tab, and click the **Configure Port** button to change the settings.*
- ❏ *Be aware that if you connect to the Internet using a dial-up router and select the **Get status every 20 sec** check box, you may be charged for the extra line connection.*
- ❏ *When you select the **Get Printer Attributes** check box and click **OK**, an error message may appear. Be sure that the printer power is on, and the printer is connected to the network.*

- ❏ *If the printer power is off or there is a problem in the network, the **Get status every 20 sec** check box is automatically cleared. If this happens, make sure that the printer power is on and the printer is correctly connected on the network, and then select the **Get status every 20 sec** check box again.*

8. Click **OK** to save the settings.

9. Select the printer driver, and follow the on-screen instructions to install the printer driver.

Note:
*When you are using EPSON Status Monitor and printing from EpsonNet Internet Print, the message "A communication error has occurred." appears. To clear this message, right-click the printer icon, select **Printing Preferences**, the **Optional Settings** tab, and then click the **Notice Settings** button. Then select the **Monitor the Printing Status** check box.*

Status Alert Window

The EpsonNet Internet Print utility updates the status of the IPP printer if you have selected the **Get status every 20 sec** check box in the EpsonNet Internet Print dialog box.

The status alert window appears when the printer is out of paper, toner, or ink, if paper is jammed, the cover is open, or when the printer is offline.

The EpsonNet Internet Print utility checks the printer status every 5 seconds during printing and every 20 seconds when idle. If you do not want to check the printer status, clear the **Get status every 20 sec** check box in the EpsonNet Internet Print dialog box.

EpsonNet SetupManager

About EpsonNet SetupManager

EpsonNet SetupManager is a utility that provides a simple printer installation and configuration tool for network administrators, and an easy network printer installation process for clients. EpsonNet SetupManager installs the printer driver for printers newly connected to the network, and helps network administrators and clients efficiently install and configure new network printers on Windows operating systems running TCP/IP.

EpsonNet SetupManager provides the following functions.

- ❏ Installs the printer driver easily.
- ❏ Installs the port monitor (EpsonNet Print) automatically.
- ❏ Creates a printer port.
- ❏ Creates a shortcut (an icon that executes the script file on the server) or a package (which contains all files needed for the installation) for automatic printer driver installation.
- ❏ Outputs the result of the printer driver installation using the script file.
- ❏ Edits more than one script file at a time.
- ❏ Registers unconnected printers in a script file.
- ❏ Installs utilities such as EPSON Status Monitor and EPSON Scan that support automatic installation.

System Requirements

The following table lists the system requirements of EpsonNet SetupManager.

Operating system	Windows Vista Windows XP Home Edition/Professional Windows Me Windows 98 Second Edition Windows 95 OSR2 (with Internet Explorer version 5.0 or higher) Windows Server 2003 Windows 2000 Advanced Server Windows 2000 Professional (with Service Pack 4 or higher) Windows NT Workstation 4.0 (with Service Pack 6 or higher)
Protocol	TCP/IP
Display	800 × 600 pixels, HighColor (16 bits)

Note:

- ❏ *If you are using Windows 95, you cannot create a script file. You can only run the script file.*
- ❏ *If you are using Windows 2000 Advanced Server or Windows Server 2003, you can create the script file, but you cannot run it.*
- ❏ *The user must have administrator privileges to execute the program when the operating system is Windows Vista, Windows XP (Home/Professional), Windows Server 2003, Windows 2000 (Professional/Advanced Server), or Windows NT 4.0.*
- ❏ *Read the Readme.txt file for information on the supported printers and print servers. This file comes with EpsonNet SetupManager.*
- ❏ *You cannot use EpsonNet SetupManager if more than one network adapter are installed on the computer and connected to different network segments.*

Print service

Operating systems	**Port monitor services**
Windows Vista/XP/2000	Standard TCP/IP Port
Windows Me	EpsonNet Print or Add-Ons IPP Port Monitor
Windows 98 Second Edition Windows 95	EpsonNet Print
Windows NT 4.0	LPR or EpsonNet Print

Note:

- ❏ *If you are using Windows Me/98/95 and EpsonNet Print is not installed, EpsonNet Print is automatically installed. To use EpsonNet Print on Windows 95, Microsoft Internet Explorer 5.0 must be installed on the computer.*
- ❏ *If you are using Windows NT 4.0 as well as LPR printing, we recommend that you install the LPR print service on the computer. If the LPR print service is not installed, EpsonNet Print is automatically installed.*
- ❏ *If you are using Windows Me, IPP Port Monitor is included in the **Add-Ons** folder on the Windows Me CD-ROM.*

Installing EpsonNet SetupManager

Follow the steps below to install EpsonNet SetupManager on your computer.

1. Insert the Software CD-ROM in the CD-ROM drive.
2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.
3. Make sure that all applications are closed, and then click the **Install Network Utility** button.
4. Click the icon located next to EpsonNet SetupManager.
5. Follow the on-screen instructions to complete the installation.

Accessing the User's Guide for EpsonNet SetupManager

The EpsonNet SetupManager User's Guide contains detailed information on EpsonNet SetupManager. Follow the steps below to access the EpsonNet SetupManager User's Guide.

Click **Start**, point to **All Programs** (for Windows Vista/XP/Server 2003 users) or **Programs** (for Windows Me/98/Server 2003/2000/NT 4.0 users), select **EpsonNet**, then **EpsonNet SetupManager**, and then select **UserGuide** to open it.

The EpsonNet SetupManager User's Guide appears. You can get information on using EpsonNet SetupManager.

Chapter 4

Troubleshooting

General Problems

Cannot configure the network interface or cannot print from the network.

Cause	What to do
The printer settings or network settings may be wrong.	First, check to see if you can print a status sheet, as described in "Printing a Network Status Sheet" on page 175. If you can print a status sheet, check the network settings; otherwise, set the interface mode of the printer's control panel to **Auto** or **Option**.

Cannot print even if you have assigned the IP address to the computer and the printer.

Cause	What to do
You have assigned an IP address to the computer manually, but you assigned the IP address to the printer by Automatic Private IP Addressing (APIPA).	Assign the printer's IP address so that it belongs to the same segment of the computer. Use EpsonNet Config and the printer's control panel.

Unable to start EpsonNet Config.

Cause	What to do
You have added or deleted protocols after installing EpsonNet Config.	Uninstall EpsonNet Config and then reinstall it. See "Uninstalling Software" on page 188 and "Installing EpsonNet Config" on page 114.

The message "EpsonNet Config cannot be used because no network is installed." appears when you start EpsonNet Config.

Cause	What to do
Both TCP/IP and IPX/SPX are not installed on the computer.	Install the TCP/IP or IPX/SPX protocol.
TCP/IP is installed on the computer, but its IP address is not set correctly.	Set a correct IP address for the computer.

The message "Could not complete communicating configuration data" appears when you send settings to the network interface.

Cause	What to do
This may happen when using a dial-up router.	Run Command Prompt from the computer on which EpsonNet Config is installed, and then enter the following command: Format: >ROUTE_ADD_the IP address of the network interface_ the IP address of the computer (the under bar represents one space) Example: >ROUTE ADD 192.168.192.168 22.33.44.55.

Unable to start EpsonNet Config with Web Browser.

Cause	What to do
You have not set the IP address for the network interface.	Set the IP address for the network interface using EpsonNet Config for Windows or Macintosh, the printer's control panel, or the arp/ping commands. You can check the IP address on a status sheet. See the EpsonNet Config User's Guide or "Setting an IP Address Using the arp/ping Command" on page 184.

Unable to set the IP address using the arp/ping commands.

Cause	What to do
The network interface is not connected to the network.	Connect the network interface to the network, and check the network environment.
The printer is located beyond the router.	The printer and the computer must be in the same segment.

The Model Name and IP Address do not appear in the EpsonNet Config dialog box.

Cause	What to do
If the valid IP address is not set, the items indicated in the dialog box mentioned above may not appear.	Set a valid IP address. Refresh the status by selecting **Refresh** from the View menu. Increase the length of time before a timeout. To do this, select **Options** from the Tool menu, and then select **Timeout**. Note that doing so can cause EpsonNet Config to run more slowly.

An extra account is generated when using the dial-up network.

Cause	What to do
NetWare is set to **Enable** even though you are not using NetWare.	Set NetWare to **Disable** on the NetWare screen of EpsonNet Config with Web Browser.
How to acquire an IP address. To acquire your IP address, you need to apply to the NIC (Network Information Center) in your country.	

Problems Specific to Your Network Environment

Windows Me/98 environment

A dial-up connection dialog box appears when printing with TCP/IP via EpsonNet Print.

Cause	What to do
You have selected a phone line or modem (for Internet Explorer 4.0x) for the Internet connection.	Printing ends normally after you cancel this dialog box, but the message appears every time you print. Connect to the Internet using a local area network or start a dial-up network manually.

A communication error message appears when you start printing or when you open the printer's properties.

Cause	What to do
When you print with NetBEUI or IPP, EPSON Status Monitor cannot be used.	Open the printer's properties and then click the **Optional Settings** tab. Select the **Update the Printer Option Information manually** radio button. Open the printer's properties, click the **Optional Settings** tab, and then click the **Notice Settings** button. Clear the **Monitor the Printing Status** check box.

Windows 2000/NT environment

A dial-up connection dialog box appears when printing with TCP/IP via EpsonNet Print.

Cause	What to do
You have selected a phone line or modem (for Internet Explorer 4.0x) for the Internet connection.	Printing ends normally after you cancel this dialog box, but the message appears every time you print. Connect to the Internet using a local area network or start a dial-up network manually.

A communication error message appears when you start printing or when you open the printer's properties.

Cause	What to do
When you print with NetBEUI or IPP, EPSON Status Monitor cannot be used.	Open the printer's properties and then click the **Optional Settings** tab. Select the **Update the Printer Option Information manually** radio button. Open the printer's properties, click the **Optional Settings** tab, and then click the **Notice Settings** button. Clear the **Monitor the Printing Status** check box.

No clients except an administrator can print via Windows NT Server 4.0.

Cause	What to do
CREATOR OWNER has been deleted from the Printer Permissions list, or **CREATOR OWNER** is set to **Print** or **No Access**.	Add **CREATOR OWNER** by clicking the **Add** button in the Printer Permissions dialog box, or set **CREATOR OWNER** to **Manage Documents** (default setting).

Macintosh environment

Printers do not appear in Chooser.

Cause	What to do
You may have selected a wrong one for "Connect via" in the **AppleTalk** Control Panel.	Make sure to select **Ethernet** in **AppleTalk** Control Panel, and make sure **AppleTalk** is active in Chooser. Also, check the network equipment including the hub cable.

The Bonjour/Rendezvous printer setting is overwritten by the AppleTalk printer setting.

Cause	What to do
The same printer is set up with AppleTalk after the printer is set up with Bonjour/Rendezvous.	Change the AppleTalk printer name so that it does not conflict with the Bonjour/Rendezvous printer name.

NetWare environment

For users of printers supporting NetWare queue-based printing

Nothing prints even though clients have sent data to the printer.

Cause	What to do
Clients may not be registered, or the network interface may not be logged in to the NetWare server.	Make sure clients are registered as users of the print queue and the print server. Also, make sure the network interface is logged in to the NetWare server.

EpsonNet Config will not start correctly.

Cause	What to do
Microsoft NetWare Directory Service is installed on your computer.	If you are using the NDS service, install the Novell NetWare Client service.

It takes a long time to start EpsonNet Config.

Cause	What to do
The Novell Client service is installed.	Double-click **Network** in Control Panel, and then double-click the network adapter that does not use the IPX/SPX-compatible protocol. Clear the items related to IPX to unbind IPX.

The printers on the IPX network do not appear in the EpsonNet Config dialog box.

Cause	What to do
The printer is turned off.	Turn on the printer.
The printer is not in the same segment as the computer where you installed EpsonNet Config.	To search for network interfaces in other segments, use Search options of EpsonNet Config.
You have not logged in to the target NetWare server with supervisor privileges.	From the computer on which EpsonNet Config is installed, log in to the target NetWare server with supervisor privileges.

Cannot monitor the printer using EPSON Status Monitor.

Cause	What to do
You set the NDS Print Server settings for the printer using EpsonNet Config for Windows.	Re-configure the printer assigned as the print server using NetWare Administrator.

For users of printers not supporting NetWare queue-based printing

Nothing prints even though clients have sent data to the printer.

Cause	What to do
Clients may not be registered, or the network interface may not be working correctly.	Make sure clients are registered as users of the NetWare server. Also, make sure the network interface is working correctly.

Printing a Network Status Sheet

Before you start configuring the network interface, be sure to print a network status sheet that contains important information such as the current configuration and the MAC address of the network interface.

To print a network status sheet, follow the steps below.

Note:
You cannot print a status sheet using the steps below if your printer does not have an LCD panel. See the User's Guide on how to print the status sheet.

1. Press the **Enter** button on the printer's control panel once to enter the SelecType mode. The LCD panel displays `Information Menu`.

2. Press the **Enter** button.

3. Press the **Down** button until `Network Status Sheet` appears on the LCD panel.

4. Finally, press the **Enter** button to print a network status sheet.

Note:
- ❏ *You cannot print a status sheet in the following cases: the printer has started printing, it is offline, or it is not ready to print.*
- ❏ *See the User's Guide for more information on the printer's control panel.*

Printing a Network Status Sheet (Large Format Inkjet Printers)

Before you start configuring the network interface, be sure to print a network status sheet that contains important information such as the current configuration and the MAC address of the network interface.
To print a network status sheet, follow the steps below.

Note:
You cannot print a status sheet using the steps below if your printer does not have an LCD panel. See the User's Guide on how to print the status sheet.

1. Press the **Right** button on the printer's control panel once to enter the Menu mode.

2. Press the **Up** or **Down** button until TEST PRINT appears. Then press the **Enter** button.

3. Press the **Down** button until NETWORK STATUS SHEET appears on the LCD panel. Then press the **Enter** button.

4. Finally, press the **Enter** button to print a network status sheet.

Note:
- ❏ *You cannot print a status sheet in the following cases: the printer has started printing, it is offline, or it is not ready to print.*
- ❏ *See the User's Guide for more information on the printer's control panel.*

Initializing Your Printer

To initialize your printer, turn on the printer while pressing the **Cancel Job** button on the printer's control panel.

Note:
Some printer models do not support this function.

Caution:
Note that all changes made to the printer and network settings are cleared when you initialize the printer using this method. Therefore, do not initialize your printer except in the case you forget the EpsonNet Config password.

Reformatting the Hard Disk Drive

To reformat the Hard Disk Drive, follow the instructions below.

Note:
Some printer models do not support this function.

1. Make sure the printer is turned off.
2. Hold down the **Down** button while you turn on the printer.
3. When you see the message `Support Mode` on the LCD panel, select `HDD Format` in the support menu.

Note:
- ❏ *After reformatting the Hard Disk Drive, the printer will automatically reboot.*
- ❏ *When you want to erase only the fonts installed from the Adobe PostScript 3 (PS3), follow steps 1 through 3 above. Select* ***PS3 HDD Init*** *when the Adobe PostScript 3 ROM is installed.*
- ❏ *When installing a Hard Disk Drive from a different printer, reformat it with this function.*

Chapter 5

Tips for Administrator

Setting an IP Address on the Printer's Control Panel

After connecting the printer to the network, you need to set the IP address for the network interface.

To set the IP address, subnet mask, and default gateway from the control panel, follow the steps below.

Note:
If you are using a printer model that does not have an LCD panel, you cannot use the steps below.

1. Turn on your printer.

2. Press the **Enter** button on the printer's control panel once to enter the SelecType mode. The LCD panel displays `Information Menu`.

3. Press the **Up** or **Down** button until `Network Menu` appears. Then press the **Enter** button.

4. Check that `Network I/F = On` appears.

   If `Network I/F = Off` appears instead, press the **Enter** button and then the **Up** or **Down** button to change to `Network I/F = On`. Then press the **Enter** button, turn off the printer for more than five seconds, and turn it back on.

5. Press the **Up** or **Down** button until `Get IP Address = Auto` appears. Press the **Enter** button and then the **Up** or **Down** button to change to `Get IP Address = Panel`. Then press the **Enter** button. You can use the following methods to get an IP address.

   - ❏ Choose `Panel` when setting the IP address, subnet mask, and default gateway using the printer's control panel.
   - ❏ Choose `Auto` when getting the IP address from a DHCP server. The IP address is automatically obtained from the DHCP server whenever the printer is reset or turned on.
   - ❏ Choose `PING` when setting the IP address using the arp/ping command. The network interface uses the IP address set by the arp/ping command. The settings become available when the printer is reset or turned off and then back on.

Note:

❏ *To use **Auto**, a DHCP server must be correctly configured on the network. See the online help of your operating system for detailed instructions.*

❏ *Choose **PING** only when setting the IP address using the arp/ping command.*

6. Press the **Up** or **Down** button until `IP = xxx.xxx.xxx.xxx` appears. Press the **Enter** button.

7. Press the **Up** or **Down** button until the desired value appears. Then press the **Enter** button to set the value.

   Note:
   Repeat steps 7 and 8 to set the IP address, subnet mask, and default gateway.

8. Press the **Start** button to exit the control panel menus.

9. Turn off your printer and then turn it back on. Be sure to wait until the initialization is complete.

Print a network status sheet to confirm the new IP address.

Note:

❏ *You must first set the IP address before using EpsonNet Config with Web Browser.*

❏ *See the User's Guide for more information about settings on the printer's control panel.*

Network Menu

These items are used to make network settings on the printer's control panel.

Item	Settings
Network I/F	On, Off
Get IPAddress	Panel, Auto, PING
IP	0.0.0.0 to 255.255.255.255
SM	0.0.0.0 to 255.255.255.255
GW	0.0.0.0 to 255.255.255.255
NetWare	On, Off
AppleTalk	On, Off
MS Network	On, Off
Bonjour	On, Off
Link Speed	Auto, 100 Full, 100 Half, 10 Full, 10 Half
Buffer Size	Normal, Maximum, Minimum

Note:

- ❏ *To activate the Network Menu settings, you must turn off the printer for more than five seconds and then turn it back on. Or, you can perform a Reset All operation, as explained in "Reset Menu" in the User's Guide.*
- ❏ *Resetting the printer erases all print jobs. Make sure the Ready light is not flashing when you reset the printer.*

AUX Menu

This menu allows you to control the optional interface settings from the printer's control panel.

Note:
The AUX Menu appears only when an optional interface is installed.

Item	Settings
AUX I/F	On, Off
Get IPAddress*	Panel, Auto, PING
IP*	0.0.0.0 to 255.255.255.255
SM*	0.0.0.0 to 255.255.255.255
GW*	0.0.0.0 to 255.255.255.255
NetWare*	On, Off
AppleTalk*	On, Off
MS Network*	On, Off
Bonjour*	On, Off
AUX Init*	-
Buffer Size*	Normal, Maximum, Minimum

* Available only when On is selected as the AUX I/F setting.

AUX I/F

Allows you to activate or deactivate the AUX interface when an optional interface card is installed.

Buffer Size

Determines the amount of memory to be used for receiving data and printing data. If Maximum is selected, more memory is allocated for receiving data. If Minimum is selected, more memory is allocated for printing data.

Note:

- *To activate Buffer Size settings, you must turn off the printer for more than five seconds then turn it back on. Or, you can perform a Reset All operation, as explained in "Reset Menu" in the User's Guide.*
- *Resetting the printer erases all print jobs. Make sure the Ready light is not flashing when you reset the printer.*

Setting an IP Address on the Printer's Control Panel (Large Format Inkjet Printers)

After connecting the printer to the network, you need to set the IP address for the network interface.

To set the IP address, subnet mask, and default gateway from the control panel, follow the steps below.

1. Turn on your printer.
2. Press the **Right** button on the printer's control panel once to display MENU.
3. Press the **Down** button until NETWORK SETUP appears. Then press the **Right** button.
4. Select NETWORK SETUP, then press the **Right** button.
5. Select ENABLE, then press the **Enter** button to enable the network settings menu.
6. Press the **Left** button to display the NETWORK SETUP menu.
7. Press the **Down** button to select IP ADDRESS SETTING, then press the **Right** button. You can use the following methods to get an IP address.

   ❏ Choose Auto when getting the IP address from a DHCP server. The IP address is automatically obtained from the DHCP server whenever the printer is reset or turned on.

   ❏ Choose Panel when setting the IP address, subnet mask, and default gateway using the printer's control panel.

   ❏ Choose PING when setting the IP address using the arp/ping command. The network interface uses the IP address set by the arp/ping command. The settings become available when the printer is reset or turned off and then back on.

   Note:
   ❏ *To use **Auto**, a DHCP server must be correctly configured on the network. See the online help of your operating system for detailed instructions.*

   ❏ *Choose **PING** only when setting the IP address using the arp/ping command.*
8. Select PANEL, then press the **Enter** button. Press the **Left** button to return to the NETWORK SETUP menu.
9. Press the **Down** button to select IP, SM, or GW, then press the **Right** button.

10. Press the **Up** or **Down** button on the IP ADDRESS screen until the desired value appears. Then press the **Right** button.

11. Press the **Up** or **Down** button on the SUBNET MASK screen until the desired value appears. Then press the **Enter** button.

12. Press the **Up** or **Down** button on the DEFAULT GATEWAY screen until the desired value appears. Then press the **Enter** button to set the values.

13. Press the **Left** button twice to exit the control panel menus.

14. Turn off your printer and then turn it back on. Be sure to wait until the initialization is complete.

Print a network status sheet to confirm the new IP address.

Note:

❏ *You must first set the IP address before using EpsonNet Config with Web Browser.*

❏ *See the User's Guide for more information about settings on the printer's control panel.*

Network Setup Menu

These items are used to make network settings on the printer's control panel.

Item	Settings
NETWORK SETUP	Disable, Enable
IP ADDRESS SETTING*	Auto, Panel, PING
IP*	0.0.0.0 to 255.255.255.255
SM*	0.0.0.0 to 255.255.255.255
GW*	0.0.0.0 to 255.255.255.255
AppleTalk*	On, Off
MS Network*	On, Off
Bonjour*	On, Off
INIT NETWORK SETTING*	EXECUTE

* Available only when Enable is selected for NETWORK SETUP.

Setting an IP Address Using the arp/ping Command

If you are using UNIX or OS/2, you need to use the arp and ping command to set the IP address of the network interface. You can also use these commands with Windows Vista/XP/Me/98/2000/NT 4.0, if you have correctly installed TCP/IP networking on these systems.

Note:

- ❏ *Make sure that the **Set using PING** function is enabled on the TCP/IP menu in EpsonNet Config. If this function is disabled, you cannot set the IP address using the arp/ping command.*
- ❏ *Make sure the network interface and the computer are in the same segment.*

Before you start, you need the following information:

- ❏ A valid IP address for the network interface. Ask your network administrator for an IP address which does not cause conflicts with any other device on the network. If you are the network administrator, choose an address within your subnet which does not conflict with any other device.
- ❏ The MAC (Ethernet hardware) address of the network interface. You can find out the MAC address on a status sheet.

Checking the LAN

First, you need to check that the computer can reach to other computer in the same segment, as follows:

1. Set the default gateway to the host on which you are setting up the network interface.

   If there is a server or a router which acts as a gateway, enter the address of the server or the router. If there is no gateway, enter the IP address of your computer as a gateway address.

2. Assume that you want to reach to the computer having the IP address “192.168.100.101”. Check that the computer is reachable by “pinging” it from the command line:
   ping 192.168.100.101

3. If the computer is reachable, you can see the following result (the exact form of the message depends on your operating system, and the time may vary):
   64 bytes from 192:168:100:101:icmp_seq=0. Time=34.ms

4. If the computer is unreachable, you may see something like this:
   PING 192:168:100:101:56 data bytes

If you press **Ctrl-C**, you may see something like this:
192:168:100:101 PING Statistics
3 packets transmitted, 0 packets received,
100% packet loss

Again, the exact wording of the message you see may differ from this, depending on your operating system. If you cannot "ping" the computer, check the following:

- ❏ The address in the ping command is correct.
- ❏ The Ethernet connection to the computer has been made correctly, and all hubs, routers, etc. are switched on.

Setting and checking the new IP address

To set the new IP address of the network interface which you have obtained from your network administrator, use the ping command and arp command with the -s flag (create an ARP entry).

Note:
In the following procedure, we assume that the MAC address of your network interface is 00:00:48:93:00:00 (hexadecimal), and that the IP address which you will be assigning is 192.168.100.201 (decimal). Substitute your values for these addresses when you type in the commands.

1. From the command line, type:
   Example: **arp -s 192.168.100.201 00-00-48-93-00-00**

2. Execute the ping command to set the IP address by pinging it: Example:
   ping 192.168.100.201

3. The network interface should now respond to the ping. If it does not, you may have incorrectly typed the MAC address or the IP address in the arp -s command. Double-check and try again. If none of these actions are effective, re-initialize the network interface and try again.

4. Print a status sheet to check whether the new IP address has been assigned to the network interface.

   Note:
   When the IP address is set by the ping command, the subnet mask is automatically changed by the class of the IP address. To change the subnet mask and the default gateway according to your network environment, use EpsonNet Config for Windows or Macintosh.

Distributing the Printer Driver Automatically

The automatic distribution function of the printer driver makes it easy to distribute the printer driver to clients on the network.

The network administrator stores the printer driver on a computer and the clients can access the computer to install the driver automatically. This simplifies the installation work. The following methods are available.

EpsonNet SetupManager

See “About EpsonNet SetupManager” on page 167 for detailed information.

EpsonNet NDPS Gateway

EpsonNet NDPS Gateway is a gateway software that you can use to print and monitor the printer status of the Epson printer in the NDPS (Novell Distributed Print Services) environment of NetWare.

Use the Setup tool of EpsonNet NDPS Gateway to upload the printer driver to Resource Management Service (RMS). When the printer driver is installed in RMS, it is automatically installed on the workstations.

Instructions on Using a Dial-Up Router

This section describes instructions on using a dial-up router.

If DHCP is used to assign an IP address of the printer and the Dynamic DNS function is not supported, you need to change the printer port setting every time you turn on the printer. Therefore, we recommend that you set a valid IP address for the network interface by using the one of the following methods.

- ❏ Set the IP address for the network interface manually. Use EpsonNet Config. See the EpsonNet Config User's Guide for details.
- ❏ Specify the network interface by using the bind of DHCP function.
- ❏ Set the exclusive address of the DHCP function.

Note:

- ❏ *Use NetBEUI printing if you do not want to go through these steps.*
- ❏ *See the manual of the Dial-Up router for more information on scorp range, bind, exclusive address of the DHCP function.*

Function of Universal Plug and Play

When you connect your printer to the network, the printer is automatically assigned with an IP address, and the printer's icon appears in the **My Network Places** folder. By double-clicking the printer's icon, you can access EpsonNet Config with Web Browser for basic information about the printer, such as manufacturer, model name, location, and administrator's name.

Right-click the printer's icon in the **My Network Places** folder and select **Properties**. You can check the brief information of the network interface.

To use this function, the Universal Plug and Play must be installed on Windows Me or future operating systems. For information on how to install Universal Plug and Play, see the Windows Me online help.

Note:

Before using the Universal Plug and Play function, you must enable the Universal Plug and Play function in EpsonNet Config. See the EpsonNet Config User's Guide or "Configuring the Network Interface Using Web-Based EpsonNet Config" on page 121.

Uninstalling Software

Follow the steps below to uninstall the network software.

Windows Vista

1. Click **Start**, click **Control Panel**, and then click **Uninstall a program**.
2. Select the utility you want to uninstall, and then click the **Uninstall/Change** button.
3. Follow the on-screen instructions to complete uninstallation.

Windows Me/98/95/2000/NT 4.0

1. Click **Start**, point to **Settings**, and then select **Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Select the utility you want to uninstall, and then click the **Add/Remove** button (Windows Me/98/95/NT 4.0) or the **Change/Remove** button (Windows 2000).
4. Follow the on-screen instructions to complete uninstallation.

Windows XP/Server 2003

1. Click **Start**, click **Control Panel**, and then click **Add or Remove Programs**.
2. Click the **Change or Remove Programs** icon.
3. Select the utility you want to uninstall, and then click the **Change/Remove** button.
4. Follow the on-screen instructions to complete uninstallation.

Macintosh

1. Double-click the **EpsonNet Config Installer** icon.
2. Click the **Continue** button.
3. In the License dialog box, read the License Agreement, and then click the **Accept** button.
4. Select **Uninstall** from the pull down menu.
5. Click the **Uninstall** button.
6. Follow the on-screen instructions to complete uninstallation.

Note:
You can also uninstall the software by dragging the target folder to the Trash.

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