



Network Interface Board Type 1018 (option)



Quick Configuration Guide



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- 1 Getting Ready for Software Installation
 - 2 Windows 95/98/Me Configuration
 - 3 Windows 2000/Windows XP Configuration
 - 4 Windows NT 4.0 Configuration
 - 5 Dynamic Host Configuration Protocol (DHCP)
 - 6 NetWare Configuration
 - 7 Macintosh Configuration

Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual.

Please keep this manual in a handy place near the machine.

Please read the Safety Information before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Trademarks

NetWare is a registered trademark of Novell, Incorporated.

Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Macintosh is a registered trademark of Apple Computer, Inc.

All other products referenced are trademarks or registered trademarks of their respective companies.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Notes:

Some illustrations in this manual might be slightly different from the machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

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How to Read this Manual

Symbols

In this manual, the following symbols are used:

Important

If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation

This symbol indicates the prior knowledge or preparations required before operating.

Note

This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation

This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference

This symbol indicates a reference.

[]

Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

[]

Keys built into the machine's control panel.

Keys on the computer's keyboard.

Manuals for This Machine

Manuals for This Machine

The following manuals separately describe the operational procedures for the operation and maintenance of the machine.

Depending on the machine, some manuals are not provided. Confirm which type of machine you have.

To enhance safe and efficient operation of the machine, all users should read and follow the instructions contained in the following manuals.

❖ **Copy Reference**

Describes the procedures and functions for using this machine as a copier.

❖ **System Settings**

Describes the system settings of this machine.

❖ **Facsimile Reference <Basic Features>**

Describes the procedures and most frequently functions for using this machine as a facsimile.

❖ **Facsimile Reference <Advanced Features>**

Describes the procedures and more advanced functions for using this machine as a facsimile. And also explains settings for key operators.

❖ **Printer Reference 1**

Describes the procedures and functions for using this machine as a printer.

❖ **Printer Reference 2**

Describes the procedures and provides necessary information about using the printer and its options. This manual is provided as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **Network Interface Board Quick Configuration Guide**

Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is provided as a PDF file on the CD-ROM labeled "Operating Instructions for Printer". (this manual)

❖ **Type 1018 PostScript level2 Compatible Kit Operating Instructions Supplement**

Describes the functions of Printer Utility for Mac. This manual is provided as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **Network Interface Board Type 1018 Owner's Manual**

Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is provided as a PDF file on the CD-ROM labeled "Print Server Software and Documentation" which comes with Network Interface Board Type 1018.

 **Note**

- ❑ Concerning UNIX printing information, please visit our web site or consult your authorized reseller.

1. Getting Ready for Software Installation

Supported programs for the installation and configuration of the Network Interface Board are provided on two CD-ROMs. One is "Printer Drivers and Utilities" and the other is "Print Server Software and Documentation" which come with this machine.

You can select any of the programs listed in the Configuration Programs.

Configuration Programs

The CD-ROM labeled "Printer Drivers and Utilities" includes the following utilities.

❖ **SmartNetMonitor for Admin**

SmartNetMonitor for Admin is software that uses the TCP/IP and IPX/SPX protocols to monitor the printers in a network. It can monitor multiple network printers having IP addresses. We recommend network administrators to use this software.

Reference

For more information about SmartNetMonitor for Admin, see the SmartNetMonitor for Admin Help file.

❖ **SmartNetMonitor for Client**

SmartNetMonitor for Client is software equipped with the following functions. We recommend all users of this printer to install this software.

- Provides the function to print in a Peer-to-Peer network.
- Uses the TCP/IP and IPX/SPX protocols to monitor the status of devices in a network constantly.

Reference

For more information about SmartNetMonitor for Client, see the SmartNetMonitor for Client Help file.

The CD-ROM labeled "Print Server Software and Documentation" includes the following utilities.

❖ **MAP**

Web-based configuration utility

❖ **IPX Peer-to-Peer**

IPX Peer-to-Peer printing software

❖ **IP Peer-to-Peer**

IP Peer-to-Peer printing software

❖ **NWSetup**

NetWare Print Service Configuration

The four utilities are provided on the "Print Server Software and Documentation" CD-ROM, but you need this CD-ROM only if you use "IPX Peer-to-Peer" or "IP Peer-to-Peer" printing.

1

Although you can use the "MAP" or "NWSetup" utilities on the "Print Server Software and Documentation" CD-ROM, it is easier to use the SmartNetMonitor for Client/Admin provided on the "Printer Drivers and Utilities" CD-ROM.

To use "MAP" or "NWSetup" from the "Print Server Software and Documentation" CD-ROM, see the "Owner's Manual" on the CD-ROM labeled "Print Server Software and Documentation" for instructions.

2. Windows 95/98/Me Configuration

Windows 95/98/Me Configuration

This section describes how to configure the Peer-to-peer printing. The Peer-to-peer printing software that is provided on the CD-ROM labeled "Printer Drivers and Utilities". "Print Server Software and Documentation" allows Windows 95/98/Me PCs to communicate directly with network attached printers. A network server, such as NetWare or Windows NT, is not required for Peer-to-peer printing.

There are three types of Peer-to-peer printing. You can select "SmartNetMonitor for Client/Admin", "IP Peer-to-Peer" and "IPX Peer-to-Peer" according to your network environment.

The Peer-to-peer printing software must be installed on each PC that uses Peer-to-peer printing. Once Peer-to-peer printing software is installed, all Network Interface Boards on the network automatically appear in the list of available printer ports.

The Peer-to-peer printing software can also be used in networks where servers are present; however, server based print services are often utilized instead. Server based print services offer centralized printing management and spooling and do not require software (other than the printer driver) to be installed on each PC.

If you use the printer in a network where servers are present, select either Peer-to-peer printing or the server based print service.

Reference

For more information about setting IP parameters, see "*Configuring the Printer for the Network with the Control Panel*" in Printer Reference 1.

Using SmartNetMonitor for Client

Installing the SmartNetMonitor for Client/Admin

For information about installing the SmartNetMonitor for Client, see "*Installing the SmartNetMonitor for Client/Admin*" in Printer Reference 1.

2

Setting up the printer driver

- 1** Install the printer driver you want to use.
- 2** From the [Printers] window, click to select the installed printer icon, and then click [Properties] in the [File] menu.
- 3** Click the [Details] tab and click [Add Port].
- 4** Click [Other], click to select [SmartNetMonitor] from the list and then click [OK].
Available printers will be listed.
- 5** Select a printer you want to use.

TCP/IP

- 1** Click the printer you want to use, and then click [OK].

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the IP address or host name.
- You cannot add an address partially similar to that already used. For example, when "192.168.0.2" is already used, "192.168.0.2xx" cannot be used. Similarly, when "192.168.0.20" is already used, "192.168.0.2" cannot be used.

IPP

Important

- The machine must be turned on and must be set the IP address.

- 1** Click [IPP].

The IPP setting dialog box appears.

- 2** In [Printer URL], type "http://(printer's IP address):631/Print" as the printer's IP address.

(Example IP address is 192.168.15.16)

`http://192.168.15.15:631/Print`

- 3 As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a different name from those of any existing port names.

If you omit this, the address typed in [Printer URL] will be set as the IPP port name.

- 6 Click [OK].
- 7 Confirm that the selected port is highlighted, and then click [Next].
- 8 Click [Finish].
- 9 Restart the computer after the installation is complete.
- 10 Set up the options with the printer driver.

Reference

For more information about settings for options, see *“Installing the Printer Driver and Software”* in Printer Reference 1.

Accessing the Port Settings Dialog Box

This section describes how to access the port settings dialog box to change the settings of SmartNetMonitor for Client.

Reference

For more information about these settings, see SmartNetMonitor for Client Help.

- 1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].
- 2 Click to select the icon of the printer you want to use.
- 3 On the [File] menu, click [Properties].
- 4 Click the [Details] tab, and then click [Port Settings].

The SmartNetMonitor for Client settings dialog box appears.

Using IP Peer-to-Peer

Important

- The TCP/IP protocol is required for IP Peer-to-Peer printing. Confirm that the TCP/IP protocol is installed, if not, install it before starting the following procedure.

2

Installing IP Peer-to-Peer

Follow these steps to install IP Peer-to-Peer.

Important

- Confirm that the printer power is turned on before starting the following procedure.

- 1** Configure the IP parameters on the Network Interface Board using the control panel.

Reference

For more information about setting IP parameters, see “*Configuring the printer for the Network with the Control Panel*” in Printer Reference 1.

- 2** Insert the CD-ROM labeled “Print Server Software and Documentation” into the CD-ROM drive.

The main screen appears.

- 3** Click [Install/Configuration Utilities].

The “Installation/Configuration Utilities” page appears.

- 4** Click [Windows IP Peer-to-Peer Printing].

The “Windows IP Peer-to-Peer Printing” page appears.

This page describes the functions of this utility.

- 5** At the bottom of the page, click the blue word [Install IP-P2P...] to begin installing.

- 6** The [Welcome] dialog box appears.

- 7** Click [Next].

The [Installation Notes] dialog box appears.

- 8** Click [Yes].

The [Choose Destination Directory] dialog box appears.

- 9** Click [Browse] to set a different folder.

The default installation folder is C:\PROGRAM FILES\IP-P2P.

10 Click **[Next]**.

The **[Select Program Folder]** dialog box appears.

This allows you to set the name of the folder that contains the shortcut links inside the Program Folder.

11 Type the name that you wish to see in “Program Folder:” and click **[Next]**.

The files are then copied to the computer in the specified directories.

12 Follow the instructions on the screen.**13** Click **[OK]** to complete the installation. **Reference**

For more information about installing IP Peer-to-Peer, see the Owner's Manual on the CD-ROM labeled “Print Server Software and Documentation”.

 **For manual installation**

Follow these steps to install the software on your operating system (Windows 95/98/Me).

- ① Insert the CD-ROM into the CD-ROM drive.
- ② Close all the applications that are currently running.
- ③ Click **[Start]** on the task bar, and click **[Run]**.
- ④ Type <Drive>:\IP-P2P\SETUP.EXE (where <Drive> is your CD-ROM drive name).
- ⑤ Click **[OK]**.
The **[Welcome]** dialog box appears.

The remaining steps are identical to **7-12** in the preceding procedure. ⇒ p.10 “Installing IP Peer-to-Peer”

Selecting the Printer Port

The Peer-to-peer printing software should be installed on each Windows 95/98/Me PC that will use Peer-to-peer printing services.

1 Install the printer driver you want to use.

If the printer drivers have already been installed, you can go to the next step.

 **Reference**

For more information about the printer drivers, see *“Installing the PCL 6/5e Printer Driver”* or *“Installing the PostScript Printer Driver”* in Printer Reference 1.

2 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The [Printers] window appears.

3 Click the icon of the printer you want to set for Peer-to-peer printing.

4 On the [File] menu, click [Properties].

The Printer Properties appear.

5 Click the [Details] tab.

6 From the [Print to the following port:] list box, select the port of the printer you want to use for Peer-to-peer printing.

- Select the IP address of the printer. If you do not find the IP address of the printer, the printer is not in your local subnet. Then you need to configure IP Peer-to-Peer port manually as described in the Owner's Manual on the CD-ROM labeled “Printer Drivers and Utilities”.

7 Click [OK].

Deleting the Port

The following procedure allows you to delete the printer port. If you want to delete the port which is currently used in Windows, switch the port to another such as "FILE", then delete it. For more information about IP Peer-to-Peer, see the Owner's Manual.

- 1** Click [Start] on the taskbar, point to [Programs], and then click [IP-P2P].

The [IP-Peer to Peer Setup] window appears.

- 2** Click [Printers...].

- 3** Click [Find Printers].

Available printers appear.

- 4** Click to select the port you want to delete from "Unit Name" list.

- 5** Click [Delete].

Using IPX Peer-to-Peer

Important

- The IPX protocol is required for IPX Peer-to-Peer printing. Confirm that the IPX protocol is installed, if not, install it before starting the following procedure.

Note

- IPX protocol can use with Windows 95/98/Me.

Installing IPX Peer-to-Peer

Follow these steps to install IPX Peer-to-Peer.

- 1** Insert the CD-ROM labeled “Print Server Software and Documentation” into the CD-ROM drive.

The main screen appears.

Note

- If Adobe Acrobat Reader is not installed, click **[Install Adobe Acrobat Reader 4.0]**.

- 2** Click **[CD ROM Contents]**.

The “Introduction” page appears.

- 3** Click **[Installation/Configuration Programs]**.

The “Configuration Programs” page appears.

- 4** Click **[Windows 95/98/Me & NT 4.x IPX Peer-to-Peer Printing]**.

The “Windows 95/98/Me and NT 4.x IPX Peer-to-Peer Printing” page appears.

This page describes the functions of this utility.

- 5** At the bottom of the page, click the blue word **[here]** to begin installing.

A dialog box appears asking if the “Setup.exe” program should be started.

- 6** Click **[Yes]**.

The **[Welcome]** dialog box appears.

- 7** Click **[Next]**.

The **[Installation Notes]** dialog box appears.

- 8** Click **[Yes]**.

The files are then copied to the computer in the specified directories.

The **[Installation Complete]** dialog box appears.

9 Click **[Finish]** to complete the installation.

For manual installation

Follow these steps to install the software on your operating system (Windows 95/98/Me).

- ① Insert the CD-ROM into the CD-ROM drive.
- ② Close all the applications that are currently running.
- ③ Click **[Start]** on the taskbar, and click **[Run]**.
- ④ Type <Drive>:\IPX-P2P\SETUP.EXE (where <Drive> is your CD-ROM drive name).
- ⑤ Click **[OK]**.

The **[Welcome]** dialog box appears.

The remaining steps are identical to **7** - **9** in the preceding procedure. ⇒ p.14 “Installing IPX Peer-to-Peer”

Selecting the Printer Port

The Peer-to-peer printing software should be installed on each Windows 95/98/Me PC that will use Peer-to-peer printing services.

1 Install the printer driver you want to use.

If the printer drivers have already been installed, you can go to the next step.

Important

- Using IPX Peer-to-Peer printing, confirm that the printer power is turned on before continuing the following steps.

Reference

For more information about the printer drivers, see “Installing the PCL 6/5e Printer Driver” or “Installing the PostScript Printer Driver” in Printer Reference 1.

2 Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

3 Click the icon of the printer you want to set for the Peer-to-peer printing.

4 On the **[File]** menu, click **[Properties]**.

The Printer Properties appear.

5 Click the **[Details]** tab.

6 From the [Print to the following port:] list box, select the port of the printer you want to use for Peer-to-peer printing.

- Select the printer name. The printer name is shown in "Peer-to-Peer Connection Information" on the network configuration page. The default setting of the printer name is "RDP_" followed by the 6 digit serial number.

7 Click [OK].

2

3. Windows 2000/Windows XP Configuration

Windows 2000/Windows XP Configuration

This manual describes the procedures and provides necessary information about setting up and using the printer under the network environment using Windows 2000/Windows XP.

- If a NetWare server is present, NetWare print services might be used by following the NetWare Configuration instructions in this guide.

Using SmartNetMonitor for Client

Installing SmartNetMonitor for Client

Limitation

- If your system is Windows 2000/Windows XP, installing software by Auto Run requires Administrators permission. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

For information about installing the SmartNetMonitor for Client, see "*Installing the SmartNetMonitor for Client/Admin*" in Printer Reference 1.

Setting up the printer driver

1 Install the printer driver you want to use.

2 From the [Printers] window, click to select the installed printer icon, and then click [Properties] in the [File] menu.

Note

- With Windows XP, from the [Printers and Faxes] window, click to select the installed printer icon, and then click [Properties] in the [File] menu.

3 Click the [Details] tab and click [Add Port].

Note

- With Windows XP, click the [Ports] tab and click [Add Port].

4 Click [Other], click to select [SmartNetMonitor] from the list and then click [OK].

Available printers will be listed.

Note

- With Windows XP, click to select [SmartNetMonitor] from the list and then click [New Port].

5 Select a printer you want to use.

TCP/IP

1 Click the printer you want to use, and then click **[OK]**. **Note**

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click **[Specify Address]**, and then type the IP address or host name.
- You cannot add an address partially similar to that already used. For example, when “192.168.0.2” is already used, “192.168.0.2xx” cannot be used. Similarly, when “192.168.0.20” is already used, “192.168.0.2” cannot be used.

IPP

 **Important**

- The machine must be turned on and must be set the IP address.

1 Click **[IPP]**.

The IPP setting dialog box appears.

2 In **[Printer URL]**, type “http://(printer's IP address):631/Print” as the printer's IP address.

(Example IP address is 192.168.15.16)

`http://192.168.15.16:631/Print`

3 As necessary, type the names to distinguish the printer in **[IPP Port Name]**. Type a different name from those of any existing port names.

If you omit this, the address typed in **[Printer URL]** will be set as the IPP port name.

6 Click **[OK]**.**7** Confirm that the selected port is highlighted, and then click **[Close]**.

Accessing the Port Settings Dialog Box

This section describes how to access the port settings dialog box to change the settings of SmartNetMonitor for Client.

Reference

For more information about these settings, see SmartNetMonitor for Client Help.

1 Click **[Start]** on the taskbar, point to **[Settings]**, and click **[Printers]**.

Note

With Windows XP, click **[Start]** on the taskbar, and click **[Printers and Faxes]**.

2 Click the icon of the printer you want to use.

3 On the **[File]** menu, click **[Properties]**.

4 Click the **[Details]** tab, and then click **[Port Settings]**.

The SmartNetMonitor for Client settings dialog box appears.

Note

With Windows XP, click the **[Port]** tab, and then click **[Configure Port]**.

Printing with a Standard TCP/IP Port

Installing the Printer Driver

- 1** Install the printer driver you want to use.
- 2** From the **[Printers]** window, click to select the installed printer icon, and then click **[Properties]** in the **[File]** menu.

 **Note**

- With Windows XP, from the **[Printers and Faxes]** window, click to select the installed printer icon, and then click **[Properties]** in the **[File]** menu.

- 3** Click the **[Ports]** tab and click **[Add Port]**.

 **Note**

- With Windows XP, click the **[Ports]** tab and click **[Add Port]**.

- 4** Select **[Standard TCP/IP Port]**, and then click **[OK]**.

The **[Add Standard TCP/IP Printer Port Wizard]** window appears.

 **Note**

- With Windows XP, select **[Standard TCP/IP Port]**, and then click **[New Port]**.

- 5** Click **[Next]** in the "Add Standard TCP/IP Printer Port Wizard" window.

- 6** Type the IP address in the "Printer Name or IP Address" box, and then click **[Next]**.

- 7** Click **[Finish]** in the "Add Standard TCP/IP Printer Port Wizard" window.

 **Note**

- During configuration of Standard TCP/IP port, the **[Additional Port Information Required]** dialog box may appear. In this case, click to select **[Standard]** in the **[Device Type]** box and then select **[RICOH Network Printer D model]** from the list.

4. Windows NT 4.0 Configuration

Windows NT 4.0 Configuration

There are several options for setting up printing in a Windows NT environment.

- If a NetWare server is present, NetWare print services might be used by following the NetWare Configuration instructions in this guide.
- Peer-to-peer print services can be available by using "IP Peer-to-Peer".
- LPR print services can be used via TCP/IP by following the instructions in this section.

Windows NT printing is very flexible. It is possible to configure the individual Windows NT or Windows 95/98/Me workstations to print using a different protocol from the Windows NT server. For example, a Windows NT server could be configured to print to the Network Interface Board via TCP/IP using the instructions in this section. The Network Interface Board could then be designated as shared on the NT server, allowing workstations to print via the NT server using a different protocol.

The optimum Windows NT printing configuration depends on the particular environment and user as well as administrator experience and preferences. Generally, LPR printing over TCP/IP covered in the following instructions is the best choice for environments where TCP/IP is already in use.

Using the SmartNetMonitor for Client

Installing the SmartNetMonitor for Client

Limitation

- If your system is Windows NT 4.0, installing software by Auto Run requires Administrators permission. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

For information about installing the SmartNetMonitor for Client, see "Installing the SmartNetMonitor for Client/Admin" in Printer Reference 1.

4

Setting up the printer driver

- 1** Install the printer driver you want to use.
- 2** From the [Printers] window, click to select the installed printer icon, and then click [Properties] in the [File] menu.
- 3** Click the [Details] tab and click [Add Port].
- 4** Click [Other], click to select [SmartNetMonitor] from the list and then click [OK].
Available printers will be listed.
- 5** Select a printer you want to use.

TCP/IP

- 1** Click the printer you want to use, and then click [OK].

Note

- Printers that respond to an IP broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the IP address or host name.
- You cannot add an address partially similar to that already used. For example, when "192.168.0.2" is already used, "192.168.0.2xx" cannot be used. Similarly, when "192.168.0.20" is already used, "192.168.0.2" cannot be used.

 IPP

 **Important**

The machine must be turned on and must be set the IP address.

1 Click [IPP].

The IPP settings dialog box appears.

2 In [Printer URL], type “`http://(printer's IP address):631/Print`” as the printer's IP address.

(Example IP address is 192.168.15.16)

`http://192.168.15.16:631/Print`

3 As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a different name from those of any existing port names.

If you omit this, the address typed in [Printer URL] will be set as the IPP port name.

6 Click [OK].

7 Confirm that the selected port is highlighted, and then click [Next].

8 Click [Finish].

9 Restart the computer after the installation is complete.

10 Set up the options with the printer driver.

 **Reference**

For more information about settings for options, see “Installing the Printer Driver and Software” in Printer Reference 1.

Accessing the Port Settings Dialog Box

This section describes how to access the port settings dialog box to change the settings of SmartNetMonitor for Client.

 **Reference**

For more information about these settings, see SmartNetMonitor for Client Help.

1 Click [Start] on the taskbar, point to [Settings], and click [Printers].

2 Click the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

4 Click the [Details] tab and click [Port Settings].

The SmartNetMonitor for Client settings dialog box appears.

Using IP Peer-to-Peer

Important

- The TCP/IP protocol is required for IP Peer-to-Peer printing. Confirm that the TCP/IP protocol is installed, if not, install it before starting the following procedure.

Installing IP Peer-to-Peer

Follow these steps to install IP Peer-to-Peer.

Important

- Confirm that the printer power is turned on before starting the following procedure.

- 1** Configure the IP parameters on the Network Interface Board using the control panel.

Reference

For more information about setting IP parameters, see “*Configuring the printer for the Network with the Control Panel*” in Printer Reference 1.

- 2** Insert the CD-ROM labeled “Print Server Software and Documentation” into the CD-ROM drive.

The main screen appears.

- 3** Click [Install/Configuration Utilities].

The “Installation/Configuration Utilities” page appears.

- 4** Click [Windows IP Peer-to-Peer Printing].

The “Windows IP Peer-to-Peer Printing” page appears.

This screen describes the functions of this utility.

- 5** At the bottom of the page, click the blue word [Install IP-P2P...] to begin installing.

- 6** The [Welcome] dialog box appears.

- 7** Click [Next].

The [Installation Notes] dialog box appears.

- 8** Click [Yes].

The [Choose Destination Directory] dialog box appears.

- 9** Click [Browse] to set a different folder.

The default installation folder is C:\PROGRAM FILES\IP-P2Puy

10 Click **[Next]**.

The **[Select Program Folder]** dialog box appears.

This allows you to set the name of the folder that contains the shortcut links inside the Program Folder.

11 Type the name that you want to see in the Program Folder and click **[Next]**.

The files are then copied to the computer in the specified directories.

12 Follow the instructions on the screen.**13** Click **[OK]** to complete the installation. **Reference**

For more information about installing IP Peer-to-Peer, see the Owner's Manual on the CD-ROM labeled "Print Server Software and Documentation".

 **For manual installation**

Follow these steps to install the software on your operating system (Windows NT 4.0).

- ① Insert the CD-ROM into the CD-ROM drive.
- ② Close all the applications that are currently running.
- ③ Click **[Start]** on the taskbar, and click **[Run]**.
- ④ Type <Drive>:\IP-P2P\SETUP.EXE (where <Drive> is your CD-ROM drive name).
- ⑤ Click **[OK]**.
The **[Welcome]** dialog box appears.

The remaining steps are identical to **7-12** in the preceding procedure. ⇒ p.26 "Installing IP Peer-to-Peer"

Selecting the Printer Port

The IP Peer-to-Peer printing software should be installed on each Windows NT 4.0 PC that uses Peer-to-peer printing services.

Important

- The IP Peer-to-Peer printing software must be installed before selecting the printer port.

1 Close all the applications that are currently running.

2 Insert the CD-ROM labeled "Printer Drivers and Utilities" into the CD-ROM drive.

If the setup menu starts automatically, you can go to the next step. If not, see "*Installing the PCL 6/5e Printer Driver*" in Printer Reference 1 to start the installation and then go to the next step.

3 The [Printer Installation] dialog box appears.

4 From the [Port] list, select the IP address of the printer you want to set up, and click [Next >].

5 Follow the instructions on the screen to finish the installation of the printer driver.

Deleting the Port

The following procedure allows you to delete the printer port. If you want to delete the port which is currently used in Windows, switch the port to another such as "FILE", then delete it. For more information about IP Peer-to-Peer, see the Owner's Manual.

1 Click [Start] on the taskbar, point to [Programs], and then click [IP-P2P].

The [IP-Peer to Peer Setup] window appears.

2 Click [Printers...].

3 Click [Find Printers].

Available printers appear.

4 Click to select the port you want to delete from "Unit Name" list.

5 Click [Delete].

Setting Up LPR Printing

Follow these steps to set up LPR printing.

Note

- In the following instructions, some fields or dialog box names may differ depending on the NT service pack in use.

1 Configure the IP parameters on the Network Interface Board using the control panel.

Reference

For more information about setting IP parameters, see “*Configuring the printer for the Network with the Control Panel*” in Printer Reference 1.

2 Click [Start] on the taskbar, point to [Settings], and then click [Control Panel].

3 Double-click [Network] and select the [Protocols] tab to confirm that the TCP/IP protocol is installed.

If the TCP/IP protocol is not on the list of Network Protocols, click [Add] to install it.

4 Select the [Services] tab.

If Microsoft TCP/IP Printing is not on the list of Network Services, click [Add] to install it.

5 Click [Close] when all protocols and services have been added.

If the TCP/IP protocol has just been added, set the IP address and other TCP/IP parameters.

The new protocols and services will be available after the system is restarted.

Important

- If the printer driver has not been installed yet, install it before continuing.

6 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

7 Right click the appropriate printer and select [Properties].

8 On the [Ports] tab, click [Add Port].

9 Double-click [LPR Port] in the list of available printer ports.

10 In the [Name or address of server providing lpd:] field, type the IP address of the Network Interface Board (that was assigned with the control panel).

11 In the [Name of printer or print queue on that server:] field, type “PORT1” (quotation marks are not included) in capital letters and click [OK].

12 Click **[Close]** to close the **[Printer Ports]** dialog box.

The IP address of the Network Interface Board is now displayed and currently selected on the list of ports.

13 If the printer is to be shared, click the **[Sharing]** tab, select **[Shared]** and type the **[Share name]**.

14 Click **[OK]**.

5. Dynamic Host Configuration Protocol (DHCP)

Dynamic Host Configuration Protocol (DHCP)

The Dynamic Host Configuration Protocol (DHCP) provides a mechanism for delivering IP configuration parameters, including the IP address, subnet mask and default gateway, to devices (hosts) on an IP network. A DHCP server manages the pool of available IP addresses and grants device requests for an IP address.

When the DHCP is set to on, the Network Interface Board broadcasts a DHCP request for an IP address. If a DHCP server is present, the request might be processed, and the IP address might be returned to the Network Interface Board. Upon receipt of the IP address, the Network Interface Board resets, and prints a network configuration page. The network configuration page might list the new IP address (and Subnet mask and default gateway). Once an IP address has been assigned to the Network Interface Board, it might no longer broadcast DHCP requests.

Important

- The IP address of the Network Interface Board assignment by DHCP works only if the Network Interface Board does not have an existing IP address.

The DHCP server leases a temporary IP address which expires after a period of time, or leases a permanent or unlimited lease which does not expire.

Devices that are granted a temporary lease are notified before the lease expires and asked if they want to extend the lease. The Network Interface Board continues extending its lease indefinitely (unless prohibited by your DHCP server configuration) and thus maintains a consistent IP address.

Important

- If the Network Interface Board is not turned on or is not connected to the network during the period when the DHCP server is sending requests to extend the lease, the lease will not be extended. The DHCP server might cancel the lease and might assign the IP address to another device. Therefore, it is highly recommended that you reserve an IP address for the Network Interface Board in your DHCP server configuration.

If you change DHCP setting for IP address assignment, it can be enabled using the NIB Setup Tool. The NIB Setup Tool allows you to use a Wizard or a Property Sheet to configure the Network Interface Board. Use the Property Sheet to enable or disable this feature. After you select the Network Interface Board with the NIB Setup Tool, click **[Configure]** and then click the **[TCP/IP]** tab. If you do not use DHCP, select **[Specify an IP Address]** and set the IP address, the subnet mask and the default gateway address. If you use DHCP, select Obtain an IP Address from DHCP server.

 **Note**

- If the IP address is not assigned to the Network Interface Board, you need to install IPX protocol into your system and set IPX protocol in the NIB Setup Tool.
- You can run the NIB Setup Tool on the **[Tools]** menu in the SmartNetMonitor for Admin. For more information about installing the SmartNetMonitor for Admin, see Printer Reference 1.

6. NetWare Configuration

This chapter describes how to configure the printer to use as a print server in a NetWare environment.

❖ SmartNetMonitor for Admin

To use a printer in a NetWare environment, configure the NetWare printing environment by using SmartNetMonitor for Admin.

Note

If you configure NetWare printing environment by using SmartNetMonitor for Admin under following environment, NetWare Client which is provided by Novell is required.

- NDS mode in Windows 95/98/Me
- NDS or Bindary mode in Windows 2000/Windows NT4.0

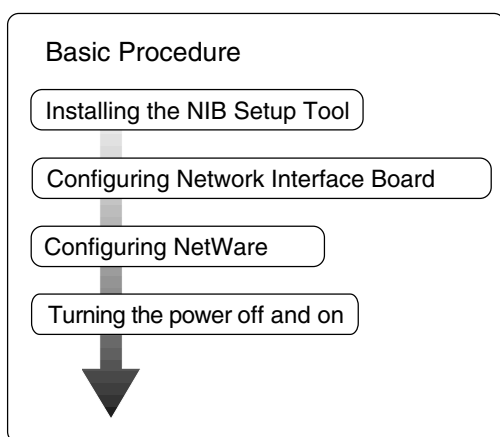
❖ Printers listed by SmartNetMonitor for Admin

SmartNetMonitor for Admin displays a list of printers, which are connected to the network.

If you cannot find out the printer from the displayed list, refer to the configuration page printed from the printer. For more information about printing a configuration page, see “Printing a configuration page” in Printer Reference 1.

NetWare 3.x - Advanced Settings

This section describes how to configure your printer to use as a print server in the NetWare 3.x environment.



NW312-G-011

Note

This section assumes NetWare is functional and that the necessary environment for the NetWare Print Service is available.

Setting Up as a Print Server

Follow these steps to set up the printer as a print server.

Preparation

Install the SmartNetMonitor for Admin first by following the procedures below. See "Installing the Printer Driver and Software" in Printer Reference 1.

1 Log on to the file server as a Supervisor or a Supervisor equivalent.

2 Run SmartNetMonitor for Admin.

3 Click the [Group] menu and click [Open LAN] and select [IPX/SPX].

A list of printers appears

Note

If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see "Printing a configuration page" in Printer Reference 1.

4 Click to select the printer you want to configure, and then click [NIB Setup Tool] on the [Tools] menu.

5 Click to select [Wizard], and then click [OK].

6 Type the device name into the [Device Name] box and comment into the [Comment] box as necessary, and then click [Next].

7 Select the [NetWare] check box, and then click [Next].

8 Click to select [Bindery], type the file server name into the [File Server Name:] box, and then click [Next].

In the [File Server Name:] box, type the name of the file server in which a print server is to be created. You can also select a file server from the list that appears by clicking [Browse].

9 Type the print server name into the [Print Server Name] box, printer name into the [Printer Name] box, and print queue name into the [Print Queue Name] box, and then click [Next].

- In the [Print Server Name] box, type the name of the NetWare print server within 47 characters.
- In the [Printer Name] box, type the name of the NetWare printer.
- In the [Print Queue Name] box, type the name of the print queue to be added to NetWare.

10 After confirming the settings, click [Next].

The settings take effect, and the NIB setup tool exits.

11 Exit SmartNetMonitor for Admin.

12 Turn the printer power off and on.

 **Note**

- To confirm that the printer is configured correctly, type as follows from the command prompt.

F : > USERLIST

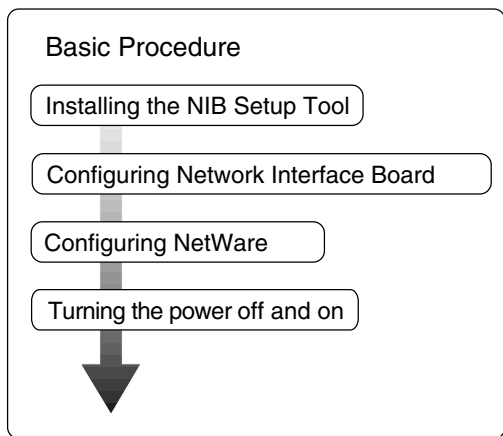
- If the printer works as configured, the name of the print server appears as an attached user.

NetWare 4.x, 5.x - Advanced Settings

This section describes how to configure your printer to use as a print server in the NetWare 4.x, 5.x environment.

❖ To use NetWare 5.x

- If you use Pure IP, use the printer as a print server. You cannot use the printer as a remote printer when you use Pure IP.



6

Setting Up as a Print Server

Follow these steps to set up the printer as a print server.

Preparation

Install the SmartNetMonitor for Admin first in accordance with the steps explained. See "Installing the Printer Driver and Software" in Printer Reference 1.

- 1** Log on to the file server as a Supervisor or a Supervisor equivalent.
- 2** Run SmartNetMonitor for Admin.
- 3** Click the [Group] menu and click [Open LAN] and select [IPX/SPX] or [TCP/IP].

A list of printers appears

Note

- If you use Pure IP, select [TCP/IP].
- If you cannot identify which printer to configure from the list of printers, print Configuration Page from the printer and find the desired printer. For more information about printing Configuration Page, see "Printing a configuration page" in Printer Reference 1.

- 4 Click to select the printer you want to configure, and then click **[NIB Setup Tool]** on the **[Tools]** menu.

 **Note**

- If you use Pure IP, see p.38 "Using Pure IP in the NetWare 5.x environment".

- 5 Click to select **[Wizard]**, and then click **[OK]**.

- 6 Type the device name into the **[Device Name]** box and comment into the **[Comment]** box as necessary, and then click **[Next]**.

- 7 Select the **[NetWare]** check box, and then click **[Next]**.

- 8 Click to select **[NDS]**, type the file server name into the **[File Server Name:]** box, the NDS tree name into the **[Tree:]** box and the context into the **[Context:]** box, and then click **[Next]**.

In the **[File Server Name:]** box, type the name of the file server in which a print server is to be created. You can also select a file server from the list that appears by clicking **[Browse]**.

Clicking **[Browse]**, you can select a NDS context among those listed in the **[Browse]** dialog box.

As a context, object names are typed from a lower object and divided by a period. For example, if you want to create a print server into NET under DS, type "NET.DS".

- 9 Type the print server name into the **[Print Server Name]** box, printer name into the **[Printer Name]** box, print queue name into the **[Print Queue Name]** box, and print queue volume into the **[Print Queue Volume]** box, and then click **[Next]**.

- In the **[Print Server Name]** box, type the name of the NetWare print server within 47 characters.
- In the **[Printer Name]** box, type the name of the NetWare printer.
- In the **[Print Queue Name]** box, type the name of the print queue to be added to NetWare.
- In the **[Print Queue Volume]**, type the volume of print queue. As a volume, object names are typed from a lower object and divided by a period. You can select a volume by clicking **[Browse]**.

- 10 After confirming the settings, click **[Next]**.

The settings take effect, and the NIB setup tool exits.

- 11 Exit SmartNetMonitor for Admin.

12 Turn the printer power off and on.**Note**

- To confirm that the printer is configured correctly, type as follows from the command prompt.

```
F :> NLIST USER /A/B
```

- If the printer works as configured, the name of the print server appears as an attached user.

Using Pure IP in the NetWare 5.x environment**1** Log on to the file server as an Admin or an Admin equivalent.**2** Run SmartNetMonitor for Admin.**3** Click [Property Sheet] and click [OK].

The [NIB Setup Tool] dialog box appears.

4 Click the [NetWare] tab, and make the following settings.**1** In the [Print Server Name:] box, type the name of the print server.**2** In the [File Server Name:] box, type the name of the file server in which a print server is to be created.

Clicking [Browse], you can select a file server among those listed in the [Browse File Server] dialog box.

3 In the [NDS Context:] box, type the context of the print server.

Clicking [Browse], you can select a NDS tree and a NDS context among those listed in the [Browse Context] dialog box.

As a context, object names are typed from a lower object and divided by a period. For example, if you want to create a print server into NET under DS, type "NET.DS".

**4** In the [Print Server Operation Mode] group, click [As Print Server].**5** Click [OK] to close the property sheet.**6** After a confirmation dialog box appears, click [OK].**5** Exit SmartNetMonitor for Admin.

After this step, go to step **9** on p.36 "Setting Up as a Print Server".

Setting Up a Client Computer

This section describes how to set up a client computer when using a NetWare print server.

After installing the printer driver, change the print port to NetWare queue.

Note

- This section assumes that the client has NetWare client applications installed and is correctly configured to communicate with a NetWare print server. If not, install the necessary applications before starting the setup procedure.

Windows 95/98/Me

Follow these steps to set up a Windows 95/98/Me client.

Preparation

Log on to the NetWare file server before starting the following procedure.

1 Install the printer driver you want to use.

Reference

For more information about installing the printer driver, see Printer Reference 1.

Note

- Any port is selected during the installation, however, LPT1 is recommended.

2 Click [Start], point to [Settings], and then click [Printers].

3 In the [Printers] window, click the icon of the printer you want to use.

4 On the [File] menu, click [Properties].

5 Click the [Details] tab, and click [Add Port].

6 Click [Network] and click [Browse].

7 On the network tree, double-click the name of the file server. The queues are displayed.

8 Click the queue you want to print, and click [OK].

9 Click [OK].

In the [Print to the following port] box, a network path to the printer appears.

10 Click [OK] to close the Printer Properties, and again, open it.

11 Click the [Printer Settings] tab.

- 12 Clear the [Form feed] and the [Enable banner] check boxes.

 **Note**

- You should not select these check boxes because they should be specified using the printer driver. If they are selected, the printer might not print correctly.

When Using the PostScript Printer Driver

Follow these steps to set up for the PostScript Printer Driver.

- 1 Click the [PostScript] tab.
- 2 Click [Advanced].
- 3 Click to clear the [Send CTRL+D before job] and the [Send CTRL+D after job] check boxes.

- 13 Click [OK] to close the Printer Properties.

Windows 2000

6

Follow these steps to set up a Windows 2000 client.

 **Preparation**

Log on to the NetWare file server before starting the following procedure.

- 1 Double-click the [My Network Place] icon on the desktop and navigate to the queue you want to use, and then double-click it.
The [Printers] dialog box appears.
- 2 Click [No].
- 3 Close all applications that are currently running.
- 4 Insert the CD-ROM labeled "Printer Drivers and Utilities" into the CD-ROM drive.
If the setup menu starts automatically, you can go to the next step. If not, see Printer reference 1.
- 5 Install the printer driver you want to use.
- 6 Click [Start], point to [Settings], and then click [Printers].
- 7 In the [Printers] window, click the icon of the printer you want to use.
- 8 On the [File] menu, click [Properties].
- 9 Select the queue you selected in step 1 from the [Port] list in the [Ports] tab, and then click [OK].

Windows NT 4.0

Follow these steps to set up a Windows NT 4.0 client.

Preparation

Log on to the NetWare file server before starting the following procedure.

- 1** Double-click the **[Network Neighborhood]** icon on the desktop and navigate to the queue you want to use, and then double-click it.

The **[Printers]** dialog box appears.

- 2** Click **[No]**.

- 3** Close all the applications that are currently running.

- 4** Insert the CD-ROM labeled "Printer Drivers and Utilities" into the CD-ROM drive.

If the setup menu starts automatically, you can go to the next step. If not, see Printer Reference 1.

- 5** Install the printer driver you want to use.

- 6** Click **[Start]**, point to **[Settings]**, and then click **[Printers]**.

- 7** In the **[Printers]** window, click the icon of the printer you want to use.

- 8** On the **[File]** menu, click **[Properties]**.

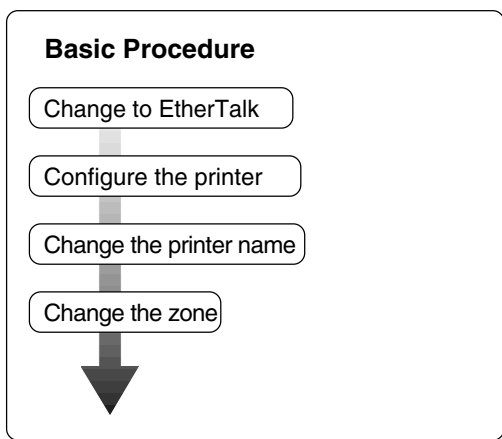
- 9** From the **[Port]** tab, select the queue you selected in step **1**, and then click **[Next >]**.

- 10** Follow the instructions on the screen.

7. Macintosh Configuration

Configuring Macintosh

This section describes how to configure a Macintosh computer to use EtherTalk. The actual procedures to configure a Macintosh may vary depending on the version of the Mac OS. The following procedure describes how to configure Mac OS 9.1. If you are not using Mac OS 9.1, see the manual that comes with your version of Mac OS for more information.



MAC-G-010

! Limitation

- For use with Mac OS 8.6 or later. (Mac OS X Classic environment is supported.)
- For use with Mac OS X 10.1 or later.
- For use with a Macintosh, Power PC is required.

Changing to EtherTalk

The following procedure is for configuring a Macintosh computer to use EtherTalk.

Reference

For more information about installing the software required for EtherTalk, see the Macintosh manuals.

Mac OS

- 1** Open [Control Panel], and then double-click the [AppleTalk] icon.
- 2** From the [Connect via:] pop-up menu, select "Ethernet".
- 3** If you change zones, select a name from the [Current zone:] pop-up menu.
- 4** Close the [AppleTalk] control panels.
- 5** Restart the computer.

Mac OS X

Preparation

You need an administrator name and a password (phrase). For more information, consult your administrator.

- 1** Open [System Preference], and then click the [Network] icon.
- 2** Click the [AppleTalk] tab.
- 3** If you change zone, select a name from the [AppleTalk Zone:] pop-up menu.
- 4** When the setting is complete, click [Apple Now].

Configuring the Printer

Use the control panel to activate the EtherTalk protocol. (The default is active.)

Reference

For more information about configuration, see Printer Reference 1.

Changing the Printer Name

If the network has several similar model printers, the names will be the same. Printers that have the same name will have their names slightly changed in the Chooser. For example, three printers named “printer” will appear in the chooser as “printer0”, “printer1” and “printer2”.

To change the printer name in the Macintosh EtherTalk environment, use the Printer Utility for Mac included on the CD-ROM labeled “Printer Drivers and Utilities”.

Changing the Zone

To change the zone configuration in the Macintosh EtherTalk environment, use the Printer Utility for Mac included on the CD-ROM labeled “Printer Drivers and Utilities”.

Reference

For more information about using Printer Utilities for Mac, see Type 1018 PostScript level2 Compatible Kit Operating Instructions Supplement provided as a PDF file on the CD-ROM labeled “Printer Drivers and Utilities”.

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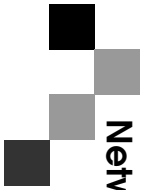
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