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Introduction

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.

Software Version Conventions Used in This Manual

- NetWare 3.x means NetWare 3.12 and 3.2.
- NetWare 4.x means NetWare 4.1, 4.11 and IntranetWare.

Trademarks

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The proper names of the Windows operating systems are as follows:

- The product name of Windows[®] 95 is Microsoft[®] Windows 95.
- The product name of Windows[®] 98 is Microsoft[®] Windows 98.
- The product name of Windows[®] Me is Microsoft[®] Windows Millennium Edition (Windows Me).
- The product names of Windows[®] XP are as follows: Microsoft[®] Windows[®] XP Professional Microsoft[®] Windows[®] XP Home Edition
- The product names of Windows[®] 2000 are as follows: Microsoft[®] Windows[®] 2000 Advanced Server Microsoft[®] Windows[®] 2000 Server Microsoft[®] Windows[®] 2000 Professional
- The product names of Windows NT[®] 4.0 are as follows: Microsoft[®] Windows NT[®] Server 4.0
- Microsoft[®] Windows NT[®] Workstation 4.0



How to Read This Manual

Symbols

In this manual, the following symbols are used:

A WARNING:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

A CAUTION:

This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

* The statements above are notes for your safety.

Important

If this instruction is not followed, paper might be misfed, 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.

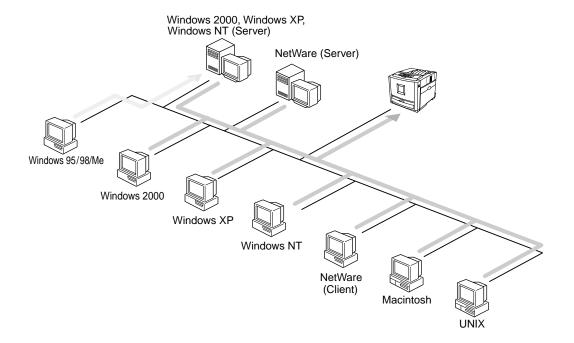
[]

Keys built into the machine's control panel.

Keys on the computer's keyboard.



Confirming a Network Environment



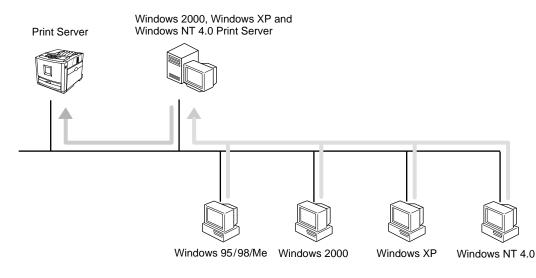
Connecting Printer and Computer

- Network connection (Ethernet cable)
- Parallel connection (parallel cable)



Print Server Configuration

You can use Windows 2000, Windows XP, or Windows NT 4.0 as a print server.

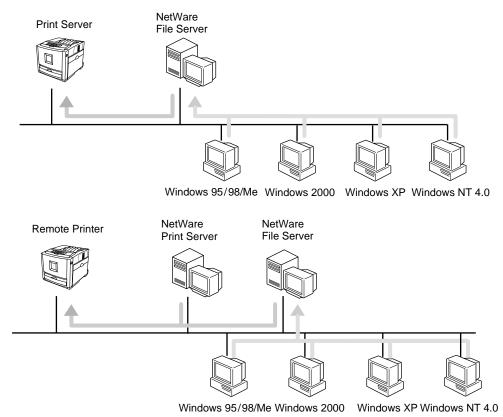


- See p.14 "Windows 2000 Print Server Configuration". See p.34 "Windows XP Print Server Configuration".
- See p.52 "Windows NT 4.0 Print Server Configuration".



Netware Configuration

For setting up the machine as a network printer in a NetWare environment. The Network Interface Board allows you to use the machine as either a print server or a remote printer.



See p.71 "NetWare Convoluted from Www.Somanuals.com. All Manuals Search And Download.



1. Windows 2000 Print Server Configuration

To use a printer connected to the Ethernet interface, select "SmartNetMonitor", "Standard TCP/IP Port" or "LPR Port" when installing the printer driver.

• SmartNetMonitor

See p.14 "Configuring the Protocols" and p.18 "Installing Software" and p.19 "Installing the PCL 5c or RPCS Printer Driver" or p.24 "Installing the PostScript Printer Driver".

• Standard TCP/IP Port, LPR Port See p.14 "Configuring the Protocols" and p.19 "Installing the PCL 5c or RPCS Printer Driver" or p.24 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Print Services for UNIX" must be installed.

Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure the Network Interface Board and Windows 2000 to use the TCP/IP protocol and IPP.

Preparation

To use NetBEUI, use the SmartNetMonitor for Client port.



Configuring the printer

Configure the printer to use the TCP/IP protocol.

- Confirm that the TCP/IP protocol is set to be active. (The factory default is active.)
- Assign an IP address and make other settings required for using the TCP/IP protocol.

🔑 Reference

For more information about how to make the above settings, see "*Windows 2000 Configuration*" in Printer Client Reference that comes with this printer.

If DHCP is used to assign IP addresses, see p.231 "Using DHCP".

🔗 Note

□ After setting the IP address, use the ping command to confirm that it has been set correctly.

① Click [Start], point to [Programs], point to [Accessories] and then click [Command Prompt].

Type the following: (Example IP address is 192.168.15.16)
 C:> ping 192.168.15.16
 If the address has been configured correctly, the following message appears.
 Reply from 192.168.15.16
 If the address has been configured incorrectly, the following message appears.
 Request timed out.

Configuring a Windows 2000 computer

Follow these steps to configure a Windows 2000 computer to use the TCP/IP protocol.

1 Click [Start] on the taskbar, point to [Settings], and then click [Network and Dial-up Connections].

2 Click [Local Area Connection]. On the [File] menu, click [Properties].



Confirm that "Internet Protocol (TCP/IP)" is selected in the [Components checked are used by this connection:] box under the [General] tab.

🔗 Note

- $\hfill\square$ If the check box for TCP/IP protocol is not selected, select the box.
- □ If the TCP/IP protocol is not installed, click **[Install]** under the **[General]** tab and install it. For more information about installing the TCP/IP protocol, see Windows 2000 Help.

4 Configure the TCP/IP protocols with an appropriate IP address, subnet mask and other settings.

Confirm with the network administrator that the settings are correct.

Configuring NetBEUI for Printing

Follow these instructions to configure the Network Interface Board and Windows 2000 to use the Net-BEUI protocol.

Configuring the printer

Configure the printer to use the NetBEUI protocol.

• Confirm that the NetBEUI protocol is set to be active. (The factory default is active.)

🔑 Reference

For more information about how to make the above settings, see "*Windows 2000 Configuration*" in Printer Client Reference that comes with this printer.



Configuring a Windows 2000 computer

Follow these steps to configure a Windows 2000 computer to use the NetBEUI protocol.

1 Click [Start] on the taskbar, point to [Settings], and then click [Network and Dial-up Connections].

2 Click [Local Area Connection]. On the [File] menu, click [Properties].

Confirm that "NetBEUI Protocol" is selected in the [Components checked are used by this connection:] box under the [General] tab.

🔗 Note

- □ If the check box for the NetBEUI protocol is not selected, select the box.
- □ If the NetBEUI protocol is not installed, click **[Install]** under the **[General]** tab and install it. For more information about installing the NetBEUI protocol, see Windows 2000 Help.





Installing Software

Installing SmartNetMonitor for Client

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

🔗 Note

Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

Click [SmartNetMonitor for Client / Admin].

5 Click to select [SmartNetMonitor for Client], and then click [Next >].

6 Follow the instructions on the screen.

🔗 Note

□ If you are required to restart the computer after the installation of SmartNetMonitor for Client, restart the computer and continue with necessary configurations.



Installing the PCL 5c or RPCS Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

□ Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Select [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading through all of the contents, click **[l accept the agreement]** to agree with the license agreement, and then click **[Next >]**.

6 Select the printer drivers you want to use when the "Select Program" dialog box appears, and then click [Next >].

You can select more than one printer driver. Download from Www.Somanuals.com. All Manuals Search And Download.



2 Select the printer model(s) you want to use.

To change the printer name, change it in the [Change settings for 'Printer Name'] box.

8 Double-click the printer name to display the printer settings.

🔗 Note

□ The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, the model of printer selected, and the port being used.

2 Click [Port:], and then select the port you want to use.

- SmartNetMonitor
- Standard TCP/IP Port
- LPR Port

SmartNetMonitor

- Click [Add].
- **2** Select [SmartNetMonitor], and then click [OK].
- **3** Select a printer you want to use.

TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**. Available printers will be listed.
- ② 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.

NetBEUI

- Click [NetBEUI], and then click [Search].
 A list of printers that can be used by the NetBEUI protocol appears.
- ② Click the printer you want to use, and then click **[OK]**.

🔗 Note

- Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the NetBEUI address. Confirm the NetBEUI address on the network is on the configuration page. For more information about printing the configuration page, see p.130 "Printing a Configuration Page". NetBEUI address appears as "\\RNPxxxx\xxx" on the configuration page. Type the printer's network path name in the form of "%%Computer name\Share name". Do not type "\\" as head characters but "%%".
- □ You cannot print to printers beyond routers.

IPP

① Click [IPP].

The IPP setting dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

```
http://192.168.15.16/printer
ipp://192.168.15.16/printer
```

③ As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a different name from those of any existing port name.
If you om Prints, the address in [Printer URE] will be Seen as the IPP port name.



④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

- □ For more information about these settings, see SmartNetMonitor for Client Help.
- (5) Click **[OK]**.

Standard TCP/IP Port

- Click [Add].
- **2** Select [Port:], and then click [Add].
- **3** Select [Standard TCP/IP], and then click [OK].
- **4** Click [Next] in the "Add Standard TCP/IP Printer Port Wizard" window.
- **5** Type the printer name or IP address in the "Printer Name or IP Address" box.
- **6** Click [Finish] in the "Add Standard TCP/IP Printer Port Wizard" window.

LPR Port

- Click [Add].
- **2** Select [Port:], and then click [Add].
- **3** Select [LPR Port], and then click [OK].
- **4** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **5** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].

W Make sure the location for the selected printer is shown after [Port:].

Double-click [Shared] to display the shared settings.



1 To share the printer, check the left side of the [Shared] box.

B Click the box under [Shared name] to install the alternative driver for the necessary system.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.33 "Setting the Printer Shared".

Configure the default printer as necessary.

Default Printer

Check [Default Printer] to set the printer as the default printer.

b Click [Continue] to start printer driver installation.

🔗 Note

During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

When the [Select Program] dialog box appears, click [Finish].

When the [Installation completion] dialog box appears, click [Finish].

18 Set up the options.

🔗 Note

□ You must set up the options when bidirectional transmission is disabled. For more information about the status of bidirectional transmission, see p.31 "Bidirectional transmission".

Reference R

For more information about option settings, see p.30 "Setting Up Options".



Installing the PostScript Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

🔗 Note

□ The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.

5 Click [Next >].



6 Select the port you want to use.

- SmartNetMonitor
- Standard TCP/IP Port
- LPR Port

SmartNetMonitor

- Click [Create a new port:].
- **2** Select [SmartNetMonitor], and then click [Next >].
- **3** Select a printer you want to use.

TCP/IP

- Click [TCP/IP], and then click [Search]. Available printers will be listed.
- ② 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.

NetBEUI

Click [NetBEUI], and then click [Search].

A list of printers that can be used by the NetBEUI protocol appears.



② Click the printer you want to use, and then click [OK].

🔗 Note

- □ Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the NetBEUI address. Confirm the NetBEUI address on the network is on the configuration page. For more information about printing the configuration page, see p.130 "Printing a Configuration Page". NetBEUI address appears as "\\RNPxxxx\xxx" on the configuration page. Type the printer's network path name in the form of "%%Computer name\Share name". Do not type "\\" as head characters but "%%".
- □ You cannot print to printers beyond routers.

IPP

① Click [IPP].

The IPP setting dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

http://192.168.15.16/printer ipp://192.168.15.16/printer

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

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

④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

- □ For more information about these settings, see SmartNetMonitor for Client Help.
- 5 Click **[OK]**.



Standard TCP/IP Port

- Click [Create a new port:].
- **2** Select [Standard TCP/IP] in [Create a new Port], and then click [Next].
- **3** Click [Next] in the "Add Standard TCP/IP Printer Port Wizard" window.
- **4** Type the printer name or IP address in the "Printer Name or IP Address" box, and then click [Next>].
- **6** Click [Finish] in the "Add Standard TCP/IP Printer Port Wizard" window.

LPR Port

- Click [Create a new port:].
- **2** Select [LPR Port] in [Create a new Port], and then click [Next].
- **3** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **4** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- Confirm to select the name of the printer whose driver you want to install, and then click [Next >].
- **8** Change the name of the printer if you want, and then click [Next >].
 - Configure the default printer as necessary. Check **[Yes]** to set the printer as the default printer.

9 Check [Share as:], and then click [Next >].

To change the printer name, change it in the [Share as:] box.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.33 "Setting the Printer Shared".



D Select whether or not you want to print a test page, and then click [Next>].

11 Click [Finish].

Start printer driver installation.



During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

12 Set up the options.

Reference

For more information about option settings, see p.30 "Setting Up Options".



Changing Port Settings

Follow the steps to change SmartNetMonitor for Client settings, such as the proxy server settings or IPP URL.

🔗 Note

- □ There are no settings for the NetBEUI protocol.
- **1** From the [Printers] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].
- **2** Click the [Ports] tab, and then click [Configure Port].

The [Port Settings] dialog box appears.

• For TCP/IP protocol, you can configure Timeout Settings.

🔗 Note

- □ If you cannot set items on the [Recovery/Parallel Printing] tab, follow the procedure below.
 - ① Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
 - ③ Click [Extended Features Settings], and then select the [Set Recovery/Parallel Printing for each port] check box.
 - ④ Click [OK] to close the [Extended Features Settings] dialog box.
- For IPP, you can configure User Settings, Proxy Settings and Timeout Settings.

🔗 Note

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



Setting Up Options

You must set up installed options, paper size and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

To change the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

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

The [Printers] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

🔗 Note

When you open the Printer Properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the Printer Properties dialog box appears.

Click the [Accessories] tab.

🔗 Note

- □ If you use the RPCS printer driver, Click [Change Accessories] tab.
- □ If you use the PostScript 3 printer driver, Click [Device Settings] tab.

4 Select options you have installed from the [Options] group, and then make any settings you require.

5 Click [OK] .



♥ ↓ Bidirectional transmission

When bidirectional transmission is enabled, the information about the paper size and feed direction setting is automatically sent to the printer by a computer. You can also confirm the printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the **[Change Accesso-ries]** tab is shaded.

🔗 Note

- □ The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- □ The PCL 5c printer driver supports bidirectional transmission, you can update the printer status manually.
- □ The PostScript 3 printer driver does not support bidirectional transmission.

To support bidirectional transmission, the following conditions are required:

When connecting with a parallel cable

- The computer must support bidirectional transmission.
- The printer must be set to bidirectional transmission.
- The Interface cable must support bidirectional transmission.
- The machine must be connected to the computer using the standard parallel cable and parallel connector.
- Under Windows 2000, [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



When connecting with the network

- The printer must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed, and the TCP/IP protocol must be used.
- Under Windows 2000, [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



Setting the Printer Shared

Limitation

- To change the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.
- U Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The [Printers] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

Select [Shared as:] under the [Sharing] tab.

4 To share a printer with the users running a different version of Windows, click [Additional Drivers...].

🔗 Note

□ If you have installed an alternative driver by checking [Shared], you do not have to follow this step.

5 Click [OK].



2. Windows XP Print Server Configuration

To use a printer connected to the Ethernet interface, select "SmartNetMonitor", "Standard TCP/IP Port" or "LPR Port" when installing the printer driver.

• SmartNetMonitor

See p.34 "Configuring the Protocols" and p.37 "Installing Software" and p.38 "Installing the PCL 5c or RPCS Printer Driver" or p.43 "Installing the PostScript Printer Driver".

• Standard TCP/IP Port, LPR Port See p.34 "Configuring the Protocols" and p.38 "Installing the PCL 5c or RPCS Printer Driver" or p.43 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Print Services for UNIX" must be installed.

Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure the Network Interface Board and Windows XP to use the TCP/IP protocol and IPP.



Configuring the printer

Configure the printer to use the TCP/IP protocol.

- Confirm that the TCP/IP protocol is set to be active. (The factory default is active.)
- Assign an IP address and make other settings required for using the TCP/IP protocol.

🔑 Reference

For more information about how to make the above settings, see "*Windows XP Configuration*" in Printer Client Reference that comes with this printer.

If DHCP is used to assign IP addresses, see p.231 "Using DHCP".

🔗 Note

- □ After setting the IP address, use the ping command to confirm that it has been set correctly.
 - ① Click [Start], point to [All Programs], point to [Accessories], and then click [Command Prompt].
 - ② Type the following: (Example IP address is 192.168.15.16)

C:> ping 192.168.15.16

If the address has been configured correctly, the following message appears.

Reply from 192.168.15.16

If the address has been configured incorrectly, the following message appears.

Request timed out.



Configuring a Windows XP computer

Follow these steps to configure a Windows XP computer to use the TCP/IP protocol.

- 1 Click [Start] on the taskbar, point to [Control Panel], and then click [Network and Internet Connections].
- **2** Click [Local Area Connection]. On the [File] menu, click [Properties].
- Confirm that "Internet Protocol (TCP/IP)" is selected in the [Components checked are used by this connection:] box under the [General] tab.

🔗 Note

- □ If the check box for TCP/IP protocol is not selected, select the box.
- □ If the TCP/IP protocol is not installed, click **[Install]** under the **[General]** tab and install it. For more information about installing the TCP/IP protocol, see Windows XP Help file.

4 Configure the TCP/IP protocols with an appropriate IP address, subnet mask and other settings.

Confirm with the network administrator that the settings are correct.



Installing Software

Installing SmartNetMonitor for Client

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

🔗 Note

Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

Click [SmartNetMonitor for Client / Admin].

5 Click to select [SmartNetMonitor for Client], and then click [Next >].

6 Follow the instructions on the screen.

🔗 Note

□ If you are required to restart the computer after the installation of SmartNetMonitor for Client, restart the computer and continue with necessary configurations.



Installing the PCL 5c or RPCS Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Select [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading through all of the contents, click **[l accept the agreement]** to agree with the license agreement, and then click **[Next >]**.



6 Select the printer drivers you want to use when the "Select Program" dialog box appears, and then click [Next >].

You can select more than one printer driver.

2 Select the printer model(s) you want to use.

To change the printer name, change it in the [Change settings for 'Printer Name'] box.

8 Double-click the printer name to display the printer settings.

🔗 Note

□ The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, the model of printer selected, and the port being used.

9 Click [Port:], and then select the port you want to use.

- SmartNetMonitor
- Standard TCP/IP Port
- LPR Port

SmartNetMonitor

- Click [Add].
- Olick [OK].
- **3** Select a printer you want to use.

TCP/IP

① Click **[TCP/IP]**, and then click **[Search]**. Available printers will be listed.



O 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

① Click [IPP].

The IPP setting dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

http://192.168.15.16/printer ipp://192.168.15.16/printer

- ③ As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a different name from those of any existing port name.If you omit this, the address typed in [Printer URL] will be set as the IPP port name.
- (4) If a proxy server and IPP user name are used, click [Detailed Settings] and configure the
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

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

(5) Click **[OK]**.



Standard TCP/IP Port

Click [Add].

2 Select [Standard TCP/IP], and then click [OK].

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

4 Type the printer name or IP address in the "Printer Name or IP Address" box.

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

LPR Port

- Click [Add].
- **2** Select [LPR Port], and then click [OK].
- **3** Type the printer's IP address in the "Name or address of server providing lpd" box.

4 Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].

Make sure the location for the selected printer is shown after [Port:].

1 Double-click [Shared] to display the shared settings.

12 To share the printer, check the left side of the [Shared] box.

B Click the box under [Shared name] to install the alternative driver for the necessary system.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.51 "Setting the Printer Shared".



Configure the default printer as necessary.

Default Printer

Check [Default Printer] to set the printer as the default printer.

b Click [Continue] to start printer driver installation.

🔗 Note

- During installation, the [Hardware Installation] dialog box may appear. In this case, click [Continue Anyway] to continue the installation.
- When the [Select Program] dialog box appears, click [Finish].

When the [Installation completion] dialog box appears, click [Finish].

Bet up the options.

🔗 Note

□ You must set up the options when bidirectional transmission is disabled. For more information about the status of bidirectional transmission, see p.49 "Bidirectional transmission".

🔑 Reference

For more information about option settings, see p.48 "Setting Up Options".



Installing the PostScript Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

🔗 Note

□ The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.

5 Click [Next >].

6 Select the port you want to use.

- SmartNetMonitor
- Standard TCP/IP Port
- LPR Port

SmartNetMonitor

Click [Create a new port:].

2 Select [SmartNetMonitor], and then [Next >].

3 Select a printer you want to use.

♦ TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**. Available printers will be listed.
- ② 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

① Click [IPP].

The IPP setting dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

http://192.168.15.16/printer ipp://192.168.15.16/printer

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

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

④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

- $\hfill\square$ For more information about these settings, see SmartNetMonitor for Client Help.
- 5 Click **[OK]**.

Standard TCP/IP Port

- Click [Create a new port:].
- **2** Select [Standard TCP/IP] in [Create a new Port], and then click [Next].
- **3** Click [Next] in the "Add Standard TCP/IP Printer Port Wizard" window.
- **4** Type the printer name or IP address in the "Printer Name or IP Address" box, and then click [Next>].
- **6** Click [Finish] in the "Add Standard TCP/IP Printer Port Wizard" window.



LPR Port

- Click [Create a new port:].
- **2** Select [LPR Port] in [Create a new Port], and then click [Next].
- **3** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **4** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- **2** Confirm to select the name of the printer whose driver you want to install, and then click [Next >].
- **8** Change the name of the printer if you want, and then click [Next >].

Configure the default printer as necessary. Check [Yes] to set the printer as the default printer.

Check [Share as:], and then click [Next >].

To change the printer name, change it in the [Share as:] box.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.51 "Setting the Printer Shared".

W Select whether or not you want to print a test page, and then click [Next>].

11 Click [Finish].

Start printer driver installation.

🔗 Note

During installation, the [Hardware Installation] dialog box may appear. In this case, click [Continue Anyway] to continue the installation.



12 Set up the options.

🔑 Reference

For more information about option settings, see p.48 "Setting Up Options".

Changing Port Settings

Follow the steps to change SmartNetMonitor for Client settings, such as the proxy server settings or IPP URL.

1 From the [Printers and Faxes] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].

2 Click the [Ports] tab, and then click [Configure Port].

The [Port Settings] dialog box appears.

• For TCP/IP protocol, you can configure Timeout Settings.

🔗 Note

□ If you cannot set items on the [Recovery/Parallel Printing] tab, follow the procedure below.

- ① Click [Cancel] to close the [Port Configuration:] dialog box.
- ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
- ③ Click [Extended Features Settings], and then select the [Set Recovery/Parallel Printing for each port] check box.
- ④ Click [OK] to close the [Extended Features Settings] dialog box.
- For IPP, you can configure User Settings, Proxy Settings and Timeout Settings.

🔗 Note

□ For more information about these settings, see SmartNetMonitor for Client Help. Download from Www.Somanuals.com. All Manuals Search And Download.



Setting Up Options

You must set up installed options, paper size and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

To change the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 Access the [Printers and Faxes] window from [Start] on the taskbar.

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

🔗 Note

When you open the Printer Properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the Printer Properties dialog box appears.

Click the [Accessories] tab.

🔗 Note

- □ If you use the RPCS printer driver, Click [Change Accessories] tab.
- □ If you use the PostScript 3 printer driver, Click [Device Settings] tab.

4 Select options you have installed from the [Options] group, and then make any settings you require.

5 Click [OK] .



♥ ↓ Bidirectional transmission

When bidirectional transmission is enabled, the information about the paper size and feed direction setting is automatically sent to the printer by a computer. You can also confirm the printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the **[Change Accesso-ries]** tab is shaded.

🔗 Note

- □ The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- □ The PCL 5c printer driver supports bidirectional transmission, you can update the printer status manually.
- □ The PostScript 3 printer driver does not support bidirectional transmission.

To support bidirectional transmission, the following conditions are required:

When connecting with a parallel cable

- The computer must support bidirectional transmission.
- The printer must be set to bidirectional transmission.
- The Interface cable must support bidirectional transmission.
- The machine must be connected to the computer using the standard parallel cable and parallel connector.
- Under Windows XP [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



When connecting with the network

- The printer must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed, and the TCP/IP protocol must be used.
- Under Windows XP [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



Setting the Printer Shared

Limitation

- To change the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.
- Access the [Printers and Faxes] window from [Start] on the taskbar.

The [Printers and Faxes] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

Select [Shared as:] under the [Sharing] tab.

4 To share a printer with the users running a different version of Windows, click [Additional Drivers...].

🔗 Note

□ If you have installed an alternative driver by checking [Shared], you do not have to follow this step.

5 Click [OK].



3. Windows NT 4.0 Print Server Configuration

To use a printer connected to the Ethernet interface, select "SmartNetMonitor" or "LPR Port" when installing the printer driver.

• SmartNetMonitor

See p.52 "Configuring the Protocols" and p.56 "Installing Software" and p.57 "Installing the PCL 5c or RPCS Printer Driver" or p.62 "Installing the PostScript Printer Driver".

LPR Port

See p.52 "Configuring the Protocols" and p.57 "Installing the PCL 5c or RPCS Printer Driver" or p.62 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Microsoft TCP/ IP Printing" must be installed.

Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure the Network Interface Board and Windows NT to use the TCP/IP protocol and IPP.

Configuring the printer

Configure the printer to use the TCP/IP protocol.

- Confirm that the TCP/IP protocol is set to be active. (The factory default is active.)
- Assign an IP address and make other settings required for using the TCP/IP protocol.



🔑 Reference

For more information about how to make the above settings, see "*Windows NT 4.0 Configuration*" in Printer Client Reference that comes with this printer.

If DHCP is used to assign IP addresses, see p.68 "Bidirectional transmission".

🔗 Note

□ After setting the IP address, use the ping command to confirm that it has been set correctly.

① Click [Start], point to [Programs], and then click [Command Prompt].

Type the following: (Example IP address is 192.168.15.16)
 C:> ping 192.168.15.16
 If the address has been configured correctly, the following message appears.
 Reply from 192.168.15.16
 If the address has been configured incorrectly, the following message appears.
 Request timed out.

Configuring a Windows NT computer

Follow these steps to configure a Windows NT computer to use the TCP/IP protocol.

1 Open [Control Panel] and double-click the [Network] icon. Confirm that "TCP/IP Protocol" is listed in the [Network protocols] box under the [Protocols] tab.

🔗 Note

□ If the TCP/IP protocol is not installed, click **[Add]** under the **[Protocols]** tab and install it. For more information about installing the TCP/IP protocol, see Windows NT Help.

2 Configure the TCP/IP protocols with an appropriate IP address, subnet mask and other settings.

Confirm that the settings are correct with the network administrator.



S Click the [Services] tab, and confirm that "Microsoft TCP/IP Printing" is installed.

If "Microsoft TCP/IP Printing" is not installed, click **[Add]** under the **[Services]** tab, and install it. For more information about installing and configuring network services, see Windows NT Help.

Configuring NetBEUI for Printing

Follow these instructions to configure the Network Interface Board and Windows NT to use the Net-BEUI protocol.

Preparation

To use NetBEUI, use the SmartNetMonitor for Client port.

Configuring the printer

Configure the printer to use the NetBEUI protocol.

• Confirm that the NetBEUI protocol is set to be active. (The factory default is active.)

Reference

For more information about how to make the above settings, see "*Windows NT 4.0 Configuration*" in Printer Client Reference that comes with this printer.



Configuring a Windows NT computer

Install the NetBEUI protocol on the Windows NT computer, and change the LAN adapter number (Lana Number).

1 Open [Control Panel] and double-click the [Network] icon. Confirm that "NetBEUI Protocol" is listed in the [Network Protocols] box under the [Protocols] tab.

🔗 Note

- □ If the NetBEUI protocol is not installed, click [Add...] under the [Protocols] tab, and install it. For more information about installing the NetBEUI protocol, see Windows NT Help.
- 2 Change the Lana Number. Click the [Services] tab, click "NetBIOS Interface" in the [Network Services:] box, and then click [Properties:].
- Click the Lana Number corresponding the Nbf protocol of the [Network Route] headline, and then click [Edit].

4 Type ''0'' as the Lana Number.

🔗 Note

□ If another protocol's Lana Number is configured at "0", change it to another number other than "0".

5 Click [OK].

6 Click [Close], and then close the [Network] dialog box.

After confirming the message to restart, click [Yes].

🔗 Note

□ After you change the Lana Number, you must restart the computer.



Installing Software

Installing SmartNetMonitor for Client

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

🔗 Note

Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

Click [SmartNetMonitor for Client / Admin].

5 Click to select [SmartNetMonitor for Client], and then click [Next >].

6 Follow the instructions on the screen.

🔗 Note

□ If you are required to restart the computer after the installation of SmartNetMonitor for Admin, restart the computer and continue with necessary configurations.



Installing the PCL 5c or RPCS Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

4 Select [PCL/RPCS Printer Drivers].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading through all of the contents, click **[l accept the agreement]** to agree with the license agreement, and then click **[Next >]**.

6 Select the printer drivers you want to use when the "Select Program" dialog box appears.



2 Select the printer model(s) you want to use.

To change the printer name, change it in the [Change settings for 'Printer Name'] box.

8 Double-click the printer name to display the printer settings.

🔗 Note

□ The details shown for [Comment:], [Driver:], and [Port:] vary depending on the operating system being used, the model of printer selected, and the port being used.

2 Click [Port:], and then select the port you want to use.

- SmartNetMonitor
- LPR Port

SmartNetMonitor

- Click [Add].
- **2** Select [SmartNetMonitor], and then click [OK].
- **3** Select a printer you want to use.

✤ TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**. Available printers will be listed.
- ② 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.

NetBEUI

- Click [NetBEUI], and then click [Search].
 A list of printers that can be used by the NetBEUI protocol appears.
- ② Click the printer you want to use, and then click **[OK]**.

🔗 Note

- Printers that respond to an broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the NetBEUI address. Confirm the NetBEUI address on the network is on the configuration page. For more information about the printing of configuration page, see p.130 "Printing a Configuration Page". Net-BEUI address appears "\\RNPxxxx\xxx" on a configuration page. Type the printer's network path name in form of "%%Computer name \Share name". Do not type "\\" as head characters but "%%".
- □ You cannot print to printers beyond routers.

IPP

① Click [IPP].

The IPP settings dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

```
http://192.168.15.16/printer
ipp://192.168.15.16/printer
```



- ③ As necessary, type the names to distinguish the printer in [IPP Port Name]. Type a different name from those of any existing port name.
 If you omit this, the address typed in [Printer URL] will be set as the IPP port name.
- ④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

- □ For more information about these settings, see SmartNetMonitor for Client Help.
- (5) Click **[OK]**.

LPR Port

- Click [Add].
- **2** Select [LPR Port], and then click [OK].
- **3** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **4** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- ${f U}$ Make sure the location for the selected printer is shown after [Port:].
- Double-click [Shared] to display the shared settings.
- 12 To share the printer, check the left side of the [Shared] box.
- **B** Click the box under [Shared name] to install the alternative driver for the necessary system.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.70 "Setting the Printer Shared".



Configure the default printer as necessary.

Default Printer

Check [Default Printer] to set the printer as the default printer.

b Click [Continue] to start printer driver installation.

🔗 Note

During installation, the [Digital Signature Not Found] dialog box may appear. In this case, click [Yes] to continue the installation.

When the [Select Program] dialog box appears, click [Finish].

When the [Installation completion] dialog box appears, click [Finish].

Bet up the options.

🔗 Note

□ You must set up the options when bidirectional transmission is disabled. For more information about the status of bidirectional transmission, see p.68 "Bidirectional transmission".

🔑 Reference

For more information about option settings, see p.67 "Setting Up Options".



Installing the PostScript Printer Driver

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

Important

Never have two versions of the same printer driver installed on your system at the same time. When upgrading to a new version of the printer driver, delete the old version, and then install the new one.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

🔗 Note

□ The printer driver with the selected language will be installed. The printer driver will be installed in English if you select the following languages: Cestina, Magyar, Polski, Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.



5 Click [Next >].

6 Select the port you want to use.

- SmartNetMonitor
- LPR Port

SmartNetMonitor

- Click [Create a new port:].
- **2** Select [SmartNetMonitor], and then [New Port...].
- **3** Select a printer you want to use.

TCP/IP

- ① Click **[TCP/IP]**, and then click **[Search]**. Available printers will be listed.
- O 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.

NetBEUI

① Click [NetBEUI], and then click [Search].

A list of printers that can be used by the NetBEUI protocol appears.



② Click the printer you want to use, and then click [OK].

🔗 Note

- □ Printers that respond to a broadcast from the computer will be displayed. To print to a printer not listed here, click [Specify Address], and then type the NetBEUI address. Confirm the NetBEUI address on the network is on the configuration page. For more information about printing the configuration page, see p.130 "Printing a Configuration Page". NetBEUI address appears as "\\RNPxxxx\xxx" on the configuration page. Type the printer's network path name in the form of "%%Computer name\Share name". Do not type "\\" as head characters but "%%".
- □ You cannot print to printers beyond routers.

IPP

① Click [IPP].

The IPP setting dialog box appears.

② To specify the IP address of the printer, type "http://printer's-ip-address/ printer" or "ipp://printer's-ip-address/printer" in the [Printer URL] field. (Example IP address is 192.168.15.16)

http://192.168.15.16/printer ipp://192.168.15.16/printer

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

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

④ If a proxy server and IPP user name are used, click **[Detailed Settings]** and configure the necessary settings.

🔗 Note

- □ For more information about these settings, see SmartNetMonitor for Client Help.
- 5 Click **[OK]**.



LPR Port

- Select [Add Port:].
- **2** Select [LPR Port] in [Create a new Port], and then click [Next].
- **3** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **4** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].
- **2** Confirm to select the name of the printer whose driver you want to install, and then click [Next >].
- **8** Change the name of the printer if you want, and then click [Next >].

Configure the default printer as necessary. Check [Yes] to set the printer as the default printer.

9 Check [Shared:], and then click [Next >].

To change the printer name, change it in the [Share Name:] box.

🔗 Note

- □ Check [Shared] to start installation of an alternative driver ([Windows NT 4.0/2000], [Windows 95/98]) has already been selected.
- □ You can add an alternative driver after installation. See p.70 "Setting the Printer Shared".

W Select whether or not you want to print a test page, and then click [Next>].

11 Click [Finish].

Start printer driver installation.

12 Set up the options.

🔑 Reference

For more information about option settings, see p.67 "Setting Up Options".



Changing Port Settings

Follow the steps to change SmartNetMonitor for Client settings, such as the proxy server settings or IPP URL.

🔗 Note

- □ There are no settings for the NetBEUI protocol.
- **1** From the [Printers] window, click the icon of the printer you want to use. On the [File] menu, click [Properties].
- **2** Click the [Ports] tab, and then click [Configure Port].

The [Port Settings] dialog box appears.

• For TCP/IP protocol, you can configure Timeout Settings.

🔗 Note

- □ If you cannot set items on the [Recovery/Parallel Printing] tab, follow the procedure below.
 - ① Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartNetMonitor for Client, and then right-click the SmartNetMonitor for Client icon on the taskbar.
 - ③ Click [Extended Features Settings], and then select the [Set Recovery/Parallel Printing for each port] check box.
 - ④ Click [OK] to close the [Extended Features Settings] dialog box.
- For IPP, you can configure User Settings, Proxy Settings and Timeout Settings.

🔗 Note

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



Setting Up Options

You must set up installed options, paper size and feed direction with the printer driver when bidirectional transmission is disabled.

Limitation

To change the printer settings requires Full Control Access permission. Members of the Administrators and Power Users groups have Full Control Access permission by default. When you set up options, log on using an account that has Full Control Access permission.

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

The [Printers] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

🔗 Note

When you open the Printer Properties dialog box for the first time after installing the RPCS printer driver, the confirmation window appears. After that, the initial display of the Printer Properties dialog box appears.

Click the [Accessories] tab.

🔗 Note

- □ If you use the RPCS printer driver, Click the [Change Accessories] tab.
- □ If you use the PostScript 3 printer driver, Click the [Device Settings] tab.

4 Select options you have installed from the [Options] group, and then make any settings you require.

5 Click [OK] .



♥ ↓ Bidirectional transmission

When bidirectional transmission is enabled, the information about the paper size and feed direction setting is automatically sent to the printer by a computer. You can also confirm the printer status from your computer.

- Bidirectional transmission is supported by Windows 95/98/Me, Windows 2000, Windows XP and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, on Windows 95/98/Me, the unavailable functions are shaded.

🔗 Note

- □ The RPCS printer driver supports bidirectional transmission and updates the printer status automatically.
- □ The PCL 5c printer driver supports bidirectional transmission, you can update the printer status manually.
- □ The PostScript 3 printer driver does not support bidirectional transmission.

To support bidirectional transmission, the following conditions are required:

When connecting with a parallel cable

- The computer must support bidirectional transmission.
- The printer must be set to bidirectional transmission.
- The Interface cable must support bidirectional transmission.
- The machine must be connected to the computer using the standard parallel cable and parallel connector.
- Under Windows NT 4.0 [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



When connecting with the network

- The printer must be set to bidirectional transmission.
- SmartNetMonitor for Client included on the CD-ROM must be installed, and the TCP/IP protocol must be used.
- Under Windows NT 4.0 [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



Setting the Printer Shared

Limitation

To change the printer settings requires Full Control Access permission. Members of the Administrators and Power Users groups have Full Control Access permission by default. When you set up options, log on using an account that has Full Control Access permission.

Use the [Printers] window to set up the printer.

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

The [Printers] window appears.

2 Click the icon of the printer you want to use. On the [File] menu, click [Properties].

3 Select [Shared] in the [Sharing] tab.

🔗 Note

□ If you use alternate drivers for Windows 95/98/Me client, service pack 4 or more is required. And install the appropriate printer driver for each client.

4 To share a printer with the users running a different version of Windows, click [Additional Drivers...].

🔗 Note

□ If you have installed an alternative driver by checking [Shared], you do not have to follow this step.

5 Click [OK].

The printers attached to the network are displayed.



4. NetWare Configuration

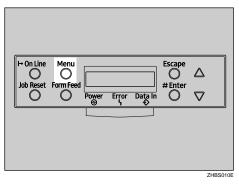
This chapter describes how to configure the printer to use as a print server or a remote printer in a Net-Ware environment.

Configuring the NetWare Protocol using the Control Panel

🔗 Note

The IPX/SPX protocol must be installed on your computer. If it is not, see Windows Help for instructions.

Press the [Menu] key.



"Menu" appears on the panel display.

2 Press the [▲] or [▼] key to display "Host Interface".

Menu: Host Interface



3 Press the [Enter #] key.

The following message appears on the panel display.

Host Interface: I/O Buffer

Press the [▲] or [▼] key to display "Network Setup".

Host Interface: Network Setup

5 Press the [Enter #] key.

The following message appears on the panel display.

Network Setup: IP Address

6 Select the NetWare protocol.

🔗 Note

- □ All protocols are active by the default.
- Do not select protocols that are not used on your network.
- □ If you use Pure IP on NetWare 5.1, configure the printer to active the TCP/IP protocol.



● Press the [▲] or [▼] key to display "Active Protocol", and then press the [Enter #] key.

Active Protocol: TCP/IP

2 Press the [▲] or [▼] key to display "NetWare".
3 Press the [Enter #] key.

The current setting appears on the panel display.

NetWare: *Active

7 Select the frame type for NetWare.

Select one of the following items if necessary.

- Auto (Default)
- Ethernet 802.3
- Ethernet 802.2
- Ethernet ll
- Ethernet SNAP

□ In most situations, use the default setting ("Auto "). When you first select "Auto ", the frame type first detected by the printer is adopted. If the network can use more than two frame types, the printer may fail to select the correct frame type if "Auto " is selected. In this case, select the appropriate frame type.

[🔗] Note



● Press the [▲] or [▼] key to display "Frame Type (NW)".

```
Network Setup:
Frame Type (NW)
```

2 Press the [Enter #] key.

The current setting appears on the panel display.

```
Frame Type (NW):
*Auto
```

③ Press the [▲] or [▼] key to display the frame type you want to use.

4 Press the **[Enter #]** key.

In about two seconds, the display returns to "Network Setup".

6 Press the [On Line] key.

"Ready" appears on the panel display.

Ready

8 Print the configuration page to check settings you have made.

For more information about how to print a configuration page, see p.130 "Printing a Configuration Page".

SmartNetMonitor for Admin

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

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🔗 Note

- □ If you configure the NetWare printing environment by using SmartNetMonitor for Admin under the following environments, NetWare Client provided by Novell is required.
 - NDS mode in Windows 95/98/Me
 - NDS or Bindary mode in Windows 2000/Windows NT 4.0
- □ Use the version of Novell Client provided with your operating system or the latest version.

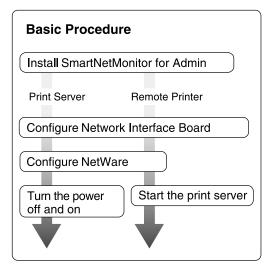
Printers listed by SmartNetMonitor for Admin

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 p.130 "Printing a Configuration Page".



NetWare 3.x - Advanced Settings

The actual procedures for configuring the printer differ depending on whether the Network Interface Board is configured as a print server or as a remote printer. This section describes how to configure it in the NetWare 3.x environment.



🔗 Note

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



Installing SmartNetMonitor for Admin

Install SmartNetMonitor for Admin on your computer. For the installation procedure, see p.94 "Installing SmartNetMonitor for Admin".

After installing SmartNetMonitor for Admin, go to p.77 "Setting Up as a Print Server" to use this computer as a print server, or to p.79 "Setting Up as a Remote Printer" to use it as a remote printer.

Setting Up as a Print Server

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

2 Run SmartNetMonitor for Admin.

Click the [Group] menu, and click [Search Device], and then 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 the Configuration Page, see p.130 "Printing a Configuration Page".
- □ If no printer name appears on the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see p.71 "Configuring the NetWare Protocol using the Control Panel".

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

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



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

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

Click to select [Bindery Mode], 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, and the printer name into the [Printer Name] box, and the 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.

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 the following from the command prompt.

F:> USERLIST

 $\hfill\square$ If the printer works as configured, the name of the print server appears as an attached user.



Setting Up as a Remote Printer

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

2 Run the SmartNetMonitor for Admin.

Click the [Group] menu, and click [Search Device], and then select [IPX/SPX].

A list of printers appears.

🔗 Note

- If you cannot identify which printer to configure from the list of printers, print the Configuration Page from the printer and find the desired printer. For more information about printing the Configuration Page, see p.130 "Printing a Configuration Page".
- □ If no printer name appears on the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see p.71 "Configuring the NetWare Protocol using the Control Panel".

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

- **5** Click to select [Property Sheet] and click [OK].
- **6** Click the [NetWare] tab, and then 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.

By clicking [Browse], you can select a file server among those listed in the [Browse] dialog box.

3 In the [Print Server Operation Mode] group, click [As Remote Printer].



4 In the [Remote Printer No.] box, type the printer number.

Important

- $\hfill\square$ Use the same printer number as that to be created in the printer server.
- **S** Click **[OK]** to close the property sheet.
- **6** After a confirmation dialog box appears, click [OK].
- **2** On the [NIB] menu, click [Exit] to exit the NIB Setup Tool.
- **8** Type "PCONSOLE" from the command prompt.
 - F:> PCONSOLE
- **9** Create a print queue as follows:
 - 🔗 Note
 - If you use a currently defined print queue, go to step 1.
 - From the [Available Options] menu, select [Print Queue Information], and then press [Enter].
 - **2** Press [INSERT], and then type a print queue name.
 - 3 Press [ESC] to return to the [Available Options] menu.
- **1** Create a printer as follows:
 - From the [Available Options] menu, select [Print Server Information], and then press [Enter].
 - **2** To create a new print server, press [INSERT], and then type a print server name.
 - If you use a currently defined print server, select one of the print servers shown in the **[Print Serv-er]** list.

Important

□ Use the same name as that specified in the NIB Setup Tool. (Step **6** - **1**).

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- **③** From the [Print Server Information] menu, select [Print Server Configuration].
- **4** From the [Print Server Configuration] menu, select [Printer Configuration].
- **5** Select the printer which is indicated as "Not Installed".

Important

 Use the same number as that specified as Remote Printer No. using the NIB Setup Tool. (Step 6 - 4).

6 If you change the name of the printer, type a new name.

A name "Printer x" is assigned to the printer. The "x" stands for the number of the selected printer.

As type, select [Remote Parallel, LPT1].

The IRQ, Buffer size, Starting form, and Queue service mode are automatically configured.

③ Press the **[ESC]** key, and then click **[Yes]** in the confirmation dialog box.

O Press the **[ESC]** key to return to [Print Server Configuration Menu].

11 Assign print queues to the created printer as follows:

- From [Print Server Configuration Menu], select [Queues Serviced By Printer].
- **2** Select the printer created in step **1**.
- **3** Press the **[INSERT]** key to select a queue serviced by the printer.

🔗 Note

 $\hfill\square$ You can select more than one queue at a time.

4 Follow the instructions on the screen to make other necessary settings.

When you have finished the above steps, confirm that the queues are assigned.

Press the [ESC] key until "Exit?" appears, and then select [Yes] to exit PCONSOLE.



B Start the print server by typing the following from the console of the NetWare Server.

If it is running, restart it after exiting it.

- To exit CAREE: unload pserver
- To start

CAREE: load pserver print_server_name

- 🔗 Note
- □ If the printer works as configured, "Waiting for job" appears.



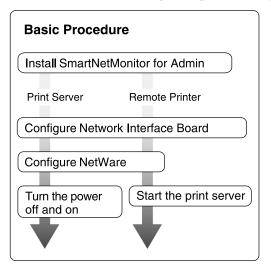


NetWare 4.x, 5 - Advanced Settings

The actual procedures for configuring the printer differ depending on whether the Network Interface Board is configured as a print server or as a remote printer. This section describes how to configure it in the NetWare 4.x, 5 environment.

To use NetWare 5

- 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.
- If you use Pure IP, configure the printer to use the TCP/IP protocol. For more information about how to make the settings, see p.71 "Configuring the NetWare Protocol using the Control Panel".





Installing SmartNetMonitor for Admin

Install SmartNetMonitor for Admin on your computer. For the installation procedure, see p.94 "Installing SmartNetMonitor for Admin".

After installing SmartNetMonitor for Admin, go to p.84 "Setting Up as a Print Server" to use this computer as a print server, or to p.88 "Setting Up as a Remote Printer" to use it as a remote printer.

Setting Up as a Print Server

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

2 Run SmartNetMonitor for Admin.

Click the [Group] menu, and click [Search Device], and then 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 the Configuration Page from the printer and find the desired printer. For more information about printing the Configuration Page, see p.130 "Printing a Configuration Page".
- □ If no printer name appears in the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see p.71 "Configuring the NetWare Protocol using the Control Panel".



Select a printer you want to configure, and then click [NIB Setup Tool] on the [Tools] menu.

- 🔗 Note
- □ If you use Pure IP, see p.86 "Using Pure IP in the NetWare 5 Environment"
- **5** Click to select [Wizard], and then click [OK].
- **1** Type the device name into the [Device Name] box and comment into the [Comment] box as necessary, and then click [Next].
- **2** Select the [NetWare] check box, and then click [Next].
- Click to select [NDS Mode], type the file server name into the [File Server Name:] box, the NDS tree name into the [NDS Tree:] box and the context into the [NDS 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]**.
 - By 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".
- **2** Type the print server name into the [Print Server Name] box, and the printer name into the [Printer Name] box, and the print queue name into the [Print Queue Name] box, and the print queue volume into the [Print Queue Volume], 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 **[Print Queue Volume]**, type the print queue volume. As a volume, object names are typed from a lower object and divided by a period. You can select a volume by clicking **[Browse]**. Download from Www.Somanuals.com. All Manuals Search And Download.



D After confirming the settings, click [Next].

The settings take effect, and the NIB Setup Tool exits.

11 Exit SmartNetMonitor for Admin.

D Turn the printer power off and on.

- 🔗 Note
- □ To confirm that the printer is configured correctly, type the following 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 Environment

- **U** Log on to the file server as Admin or an Admin equivalent.
- **2** Run SmartNetMonitor for Admin.
- Click [Property Sheet], and then 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.

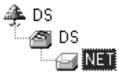
By clicking **[Browse]**, you can select a file server among those listed in the **[Browse File Server]** dialog box.



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

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

As 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].

G 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 8 on p.88 "Setting Up as a Remote Printer".



Setting Up as a Remote Printer

1 Log on to the file server as Admin or an Admin equivalent.

2 Run the SmartNetMonitor for Admin.

Click the [Group] menu, and click [Search Device], and then select [IPX/SPX].

A list of printers appears.

🔗 Note

- If you cannot identify which printer to configure from the list of printers, print the Configuration Page from the printer and find the desired printer. For more information about printing the Configuration Page, see p.130 "Printing a Configuration Page".
- □ If no printer name appears on the list, match the frame types of the IPX/SPX protocol between the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer. For more information about changing the frame type of equipment, see p.71 "Configuring the NetWare Protocol using the Control Panel".

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

- Click to select [Property Sheet], and then click [OK].
- **6** 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.

By clicking [Browse], you can select a file server among those listed in the [Browse] dialog box.



③ In the [NDS Context] box, type the context in which the print server is to be created.

By clicking **[Browse]**, you can select context among those listed in the **[Browse]** dialog box. As context, object names are typed from a lower level 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 Remote Printer].

6 In the [Remote Printer No.] box, type the number of the printer.

Important

Use the same number as that of the printer to be created in the print server.

6 Click [OK] to close the property sheet.

2 On the [NIB] menu, click [Exit] to exit the NIB Setup Tool.

8 From Windows, run NWadmin.

🔑 Reference

For more information about NWadmin, see the documentation that comes with the NetWare.

9 Create a print queue as follows:

• Select the container object the print queue is located in among those in the directory tree, and then click [Create] on the [Object] menu.

2 In the [Class of new object] box, click "Print Queue", and then click [OK].

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- **③** In the [Print Queue name] box, type the name of the print queue.
- **4** In the [Print Queue Volume] box, click the [Browse] button.
- **(5** In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- **6** After confirming the settings, click [Create].

Create a printer as follows:

- Select the container object the printer is located in, and then click [Create] in the [Object] menu.
- In the [Class of new object] box, click "Printer", and then click [OK]. When you are using NetWare 5, click "Printer (Non NDPS)".
- **3** In the [Printer name] box, type the name of the printer.
- **4** Click [Define additional properties] to check a box, and then click [Create].
- **11** Assign print queues to the created printer as follows:
 - Click [Assignments], and then click [Add] in the [Assignments] group.
 - **2** In the [Available objects] box, click the queue created in step **9**, and then click [OK].
 - Click [Configuration], and in the [Printer type] box, select [Parallel] using the drop-down menu, and then click [Communication].
 - **4** Click [Manual load] in the [Communication type] group, and then click [OK].
 - **(5)** After confirming the settings, click [OK].
- Create a print server as follows:
 - Select the context specified using the NIB Setup Tool (Step]]), and on the [Object] menu, click [Create].



In the [Class of new object] box, click "Print Server", and then click [OK]. When you are using NetWare 5, click "Print Sever (Non NDPS)".

3 In the [Print Server name] box, type the name of the print server.

Important

- □ Use the same name as that specified using the NIB Setup Tool. (Step **6 1**).
- **4** Click [Define additional properties] to check a box, and click [Create].

B Assign the printer to the created print server as follows:

- Click [Assignments], and then click [Add] in the [Assignments] group.
- 2 In the [Available objects] box, click the queue created in the step [], and then click [OK].
- 3 In the [Printers] group, click the printer assigned in step 2, and then click [Printer Number].
- **4** Type the printer number, and then click [OK].

Important

 Use the same number as that specified as Remote Printer No. using the NIB Setup Tool. (Step 6 - 5).

(5) After confirming the settings, click [OK].

A Start the print server by typing the following from the console of the NetWare Server.

If it is running, restart it after exiting it.

To exit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name



5. Using SmartNetMonitor for Admin

Using SmartNetMonitor for Admin, you can not only monitor the status of network printers, but also allows you to change the configurations of the Network Interface Board using the TCP/IP protocol or IPX/SPX protocol.

SmartNetMonitor for Admin is equipped with the following functions.

- Device Information function
 - Checks the printer's network settings and detailed information of devices.
 - Checks the number of pages printed for each computer, using the user codes.
 - Checks the results of print jobs executed from the computer.
 - Enables you to change the printer's network settings.
- Device Settings function
 - Limits the settings to be done from the control panel, and disables changes to be made to some of the items.
 - Enables the selection of paper type loaded in the printer.
- Energy Saver function
 - Switches to the Energy Saver mode, and wakes up from the Energy Saver mode.
- System Status function
 - Checks the information on printing, paper exhaustion, and such, on the computer.
- Groups function
 - Monitors multiple printers at the same time. When there are many printers, you can create groups and classify the printers to facilitate management.



OS	Protocol Stack
Microsoft Windows 95/98/Me	TCP/IP provided with Windows 95/98/Me
	IPX/SPX provided with Windows 95/98/Me
	NetWare network client provided with Windows 95/98
	Novell Client for Windows 95/98
Microsoft Windows 2000	TCP/IP provided with Windows 2000
	IPX/SPX provided with Windows 2000
	NetWare Client provided with Windows 2000
	Novell Client for Windows NT/2000
Microsoft Windows XP	TCP/IP provided with Windows XP
	IPX/SPX provided with Windows XP
	NetWare Client provided with Windows XP
	Novell Client for Windows XP
Microsoft Windows NT 4.0	TCP/IP provided with Windows NT
	IPX/SPX provided with Windows NT
	Client Service for NetWare provided with Windows NT
	Novell Client for Windows NT/2000

🔗 Note

□ Select the appropriate protocol stack for your operating system.



Installing SmartNetMonitor for Admin

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

Auto Run will start the installer.

🔗 Note

□ Auto Run might not automatically work with certain OS settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select a language to change the interface language, and then click [OK].

The following languages are available: Cestina (Czech), Dansk (Danish), Deutsch (German), English (English), Espanol (Spanish), Francais (French), Italiano (Italian), Magyar (Hungarian), Nederlands (Dutch), Norsk (Norwegian), Polski (Polish), Portugues (Portuguese), Suomi (Finnish), Svenska (Swedish)

Select [SmartNetMonitor for Client / Admin] installation, and then click [Next].

5 The software license agreement appears in the [License Agreement] dialog box.

After reading through all of the contents, click **[l accept the agreement]** to agree with the license agreement, and then click **[Next >]**.

6 Follow the instructions on the screen.

🔗 Note

□ If you are required to restart the computer after the installation of SmartNetMonitor for Admin, restart the computer and continue with necessary configurations.

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Changing the Network Interface Board Configuration

- **1** Run SmartNetMonitor for Admin.
- **2** Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX]. A list of printers appears.
 - 🔗 Note
 - □ Select the protocol of the printer you want to change its configuration.
- **E** On the list, Select a printer you want to change its configuration.
- 4 From the [Tools] menu, select [NIB Setup Tool].
 - The NIB Setup Tool starts up.
- **5** Select [Wizard] or [Property Sheet], and then click [Next].
 - When configuring the Network Interface Board for the first time, select [Wizard].
 - When changing the configuration of the Network Interface Board or configuring it in detail, select **[Property Sheet]**.

Selecting [Wizard]

1 Fill in the necessary items, and then click [Next].

Selecting [Property Sheet]

1 A configuration list appears on the dialog box.

For more information about each item on the dialog box, see SmartNetMonitor for Admin Help.

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Locking the Menus on the Printer's Control Panel

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX]. A list of printer appears.

🔗 Note

□ Select the protocol of the printer you want to change its configuration.

3 Select a desired printer.

4 From the [Tools] menu, point [Device Settings], select [Lock Operation Panel Menu].

The Web browser starts up, and the screen that prompts you to type the user name and a password appears.

5 Type the user name and the password, and then click [OK].

The general configuration window appears.

6 From the [Lock Operation Panel Menu] pull-down menu, select [Apply].

🔗 Note

The Panel Lock function that can be set here is the same as that on the control panel of this machine.

7 Click [Apply].

8 Exit the Web browser.



Changing the Paper Type

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX]. A list of printer appears.

🔗 Note

□ Select the protocol of the printer you want to change its configuration.

E On the list, Select a printer whose paper type you want to change.

From the [Tools] menu, point [Device Settings], select [Select Paper Type].

The Web browser starts up, and the screen that prompts you to type the user name and a password appears.

5 Type the user name and the password, and then click [OK].

The paper type configuration window appears.

6 Select the sheet type, and then click [Apply].

7 Exit the Web browser.





Managing the Number of Copies to be Printed

Preparation

Optional User Account Enhance Unit Type B must be installed to manage the number of copies to be printed. For more information about installing the User Account Enhance Unit Type B, see "User Account Enhance Unit Type B" in the Option Setup Guide.

U Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX].

A list of printer appears.

- 🔗 Note
- □ Select the protocol of the printer you want to change its configuration.
- **3** On the list, Select a printer whose statistics information you want to manage.

From the [Tools] menu, select [User Management Tool].

The screen that prompts you to type a password appears.

5 Type the password, and then click [OK].

🔗 Note

□ The factory default password is "password".

The User Code Maintenance Tool starts up.

For more information about using the User Management Tool, see SmartNetMonitor for Admin Help.



Configuring the Energy Save Mode

- **1** Run SmartNetMonitor for Admin.
- **2** Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX]. A list of printer appears.
 - 🔗 Note
 - Select the protocol of the printer you want to change its configuration.
- Select the device you want to make a setting for.

You do not need to select anything if you want to make a setting for all the devices in the group.

- Click [Group] and point to [Energy Save Mode].
- **D** To make a setting only for the device you have selected, click [Set Individually].
- **6** To make a setting for all the devices in the group, click [Set By Group].
- **7** Then select any energy saver mode from the menu that appears.





Setting a Password

1 Run SmartNetMonitor for Admin.

- **2** Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX].
 - A list of printer appears.

🔗 Note

□ Select the protocol of the printer you want to change its configuration.

E On the list, Select a printer you want to change its configuration.

From the [Tools] menu, select [NIB Setup Tool].

The NIB Setup Tool starts up.

🔗 Note

□ To prevent the Network Interface Board configuration from being changed accidentally by someone other than the network administrator, you can set a password in [NIB Setup Tool] that is different from the network password. Click [Option] to set a password in [NIB Setup Tool].

5 Select [Property Sheet], and then click [OK].

6 Click the [Password] tab.

2 Click [Change Password], and enter a password, and then click [OK].



6. Using a Web Browser

The Network Interface Board functions as a Web server or as a network printer. You can use a Web browser to view the printer status and configure the Network Interface Board.

Configuring the printer

This requires the TCP/IP protocol to be installed. After the printer has been configured to use the TCP/IP protocol, it will be possible to adjust the settings using a Web browser.

Reference

For more information about configuring the printer to use the TCP/IP protocol, see "CONFIGUR-ING THE PRINTER FOR THE NETWORK" in the Quick Installation Guide.

Operating system browser requirements

OS	Browser
Windows 95/98/Me	
Windows 2000	
Windows XP	
Windows NT 4.0	Microsoft Internet Explorer 4.01 or later Netscape Navigator 4.06 or later
Mac OS 8.1 or later	
Mac OS X v10.1	
Solaris 2.5/2.6/2.7/7/8	

Limitation

- □ Sometimes after clicking [Back], the previous page may not appear. In this case, click [Refresh] or [Reload].
- The text on the screen may disappear or be aligned incorrectly if the font size settings of the browser are too large. It is recommended that you use a font size equal to or smaller than "10 points" with Netscape Navigator, and "Medium" or smaller with Internet Explorer. Download from Www.Somanuals.com. All Manuals Search And Download.



Going to the Top Page

After launching the Web Browser, type the IP address of the printer. See the example below. This example is for the English version.

http://192.168.15.16/

(In this example, the IP address of the Network Interface Board is 192.168.15.16.)

🔗 Note

- If a DNS server is used on the network, you can type the host name as an URL. For example, http://webmonitor.netprinter.com/. In order to do this, you must register the IP address and the host name of the Network Interface Board with the DNS server. Consult the network administrator for information about how to do this.
- □ When you use the proxy server, you must set up the proxy server address for the Web browser you are using. Consult the network administrator for information about how to set the proxy server.



1. Header Buttons

You can register favorite URLs with **[URL]**. To view the Help section, click **[Help]**.

Important

It costs to use the browser to access a Website.



The Help file is stored in the following folder on the CD-ROM in HTML format. The third folder, "(Language)" may be substituted by an appropriate language name.

\HELP\WSMHLP\(Language)\

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2. Menu Buttons

Buttons to configure the Network Interface Board and confirm the status of the printer.

🔗 Note

- When you click [Network Config], a dialog box appears requesting the user name and a password. Type only the password in this dialog box. The factory default password is "password".
- The password is the same as that used for remote maintenance and that used in the NIB Setup Tool. If you change a password with the Web browser, other passwords are also changed.

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3. Status

Displays the name and comments of the Network Interface Board, and the printer status.

Configuring the Network Interface Board Settings

1 Start the Web browser.

2 Point your browser at the URL or IP address of the printer (e.g. http://XXX.XXX.XXX.XXX where the Xs are the number of the IP address).

The status of the printer you chose appears on the Web browser.

3 Click [Configuration].

The dialog box for entering the password and user name is displayed.

4 Enter your user name and password, and then click [OK].

To use the factory default account, enter no user name and type "password" for the password.



5 Click the item you want to configure, and then make all the settings.

The following items can be configured:

[General]

Configure the general settings for the machine here.

♦ [TCP/IP]

Configure the TCP/IP-related settings for the Network Interface Board, the optional 802.11b Interface Unit, and the optional 1394 Interface Unit.

♦ [SNMP]

Configure the appropriate community settings here. Up to 10 types of community names can be registered.

[NetWare]

Configure the settings for printing in a NetWare environment here.

[AppleTalk]

Configure the Network Interface Board or the optional 802.11b Interface Unit settings related to the AppleTalk protocol.

♦ [NetBEUI]

Configure the Network Interface Board or the optional 802.11b Interface Unit settings related to the NetBEUI protocol here.

♦ [IEEE 1394]

Configure the optional 1394 Interface Unit settings related to IP over 1394 and SCSI print (SBP-2).

Limitation

□ This page is displayed when the optional 1394 Interface Unit is installed. Download from Www.Somanuals.com. All Manuals Search And Download.



[IPP Authentication]

If using the IPP protocol, configure the authentication settings for printing here.

[Paper Type]

Select the paper type loaded in the machine from the drop-down menu.

[Password]

Follow the procedure below to change the password. Enter the password to change the network and machine settings or delete spooled print jobs.

[IEEE 802.11b (Wireless LAN)]

Configure the optional 802.11b Interface Unit settings related to communication.

Limitation

□ This page is displayed when the optional 802.11b Interface Unit is installed.

Verifying the Network Interface Board Settings

1 Start the Web browser.

2 Point your browser at the URL or IP address of the printer (e.g. http://XXX.XXX.XXX.XXX where the Xs are the number of the IP address).

The status of the printer you chose appears on the Web browser.

Click [Config. Reference].

The dialog box for entering the password and user name is displayed.



4 Click the item you want to check.

The following items can be checked:

[General]

Shows general settings for the machine.

♦ [TCP/IP]

Shows the TCP/IP-related settings for the Network Interface Board, the optional 802.11b Interface Unit, and the optional 1394 Interface Unit.

[NetWare]

Shows the settings for printing in a NetWare environment.

[AppleTalk]

Shows the Network Interface Board or the optional 802.11b Interface Unit settings related to the AppleTalk protocol.

[NetBEUI]

Shows the Network Interface Board or the optional 802.11b Interface Unit settings related to the NetBEUI protocol.

♦ [IEEE 1394]

Shows the optional 1394 Interface Unit settings related to IP over 1394 and SCSI print (SBP-2).

[IEEE 802.11b (Wireless LAN)]

Shows the optional 802.11b Interface Unit settings related to communication.



🔆 Linking the address (URL) to the [Help] button

You can link the address (URL) of the **[Help]** button to the Help files on the computer or on a Web server.

- ① Copy the Help files on the CD-ROM to a desired location. The Help files are located in folders labeled with abbreviated language names. For example, English Help files are in the [EN] folder. Be sure to copy the entire [EN] folder to the new location.
- ② Using a Web browser, navigate to the Top Page, and then click [Network config].
- ③ Type your password, (it is not necessary to type a user name), and then click **[OK]**.
- ④ Type the path to the Help files in the [Help URL] box. If you copied the Help files to "C:\HELP\EN", type "file://C:/HELP/". For example if you copied the files to a Web server and the index URL is "http://a.b.c.d/HELP/EN/index.html", type "http://a.b.c.d/HELP/".
- 5 Click [Apply].

When a warning message appears, select to continue the configuration.



7. Monitoring and Configuring the Printer

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Changing Names and Comments

You can change printer names and make a comment on printers to easily identify the printers listed on SmartNetMonitor for Client.

The following utilities are used to change printer names and comments.

SmartNetMonitor for Admin

Allows you to change names and comments when the TCP/IP protocol or IPX/SPX protocol is available. You can install SmartNetMonitor for Admin from the CD-ROM that comes with the printer. For more information about installing SmartNetMonitor for Admin, see p.84 "Installing SmartNetMonitor for Admin".

Web Browser

Allows you to change names and comments when the TCP/IP protocol is available.

🔗 Note

- Each of the names, in a TCP/IP protocol form (printer name) and in a NetBEUI protocol form, is changed individually. Comments are, however, common to both of them.
- □ The factory default name consists of "RNP" and the last 3 bytes of the MAC address on the Network Interface Board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". Comments are not configured.



SmartNetMonitor for Admin

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and select [TCP/IP] or [IPX/SPX]. A list of printers appears.

🔗 Note

 $\hfill\square$ Select the protocol of the printer you want to change its configuration.

3 On the list, Select a printer whose Network Interface Board you want to change its configuration.

From the [Tools] menu, select [NIB Setup Tool].

The NIB Setup Tool starts up.

5 Select [Property Sheet], and then click [OK].

TCP/IP

• Click the [General] tab, and then type the device name into the [Device Name] box and comment into the [Comment] box.

- In the **[Device Name]** box, type the name of the printer within 13 characters. The factory default name consists of "RNP" and the last 3 bytes of the MAC address on the Network Interface Board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". No name of 9 characters is permitted if the prefix is "RNP". Also, when DHCP is selected as an IP address setting, the number of characters is limited to 13 characters.
- In the **[Comment]** box, type any comment on printers within 31 characters. Download from Www.Somanuals.com. All Manuals Search And Download.



NetBEUI

• Click the [General] tab, and then type the comment into the [Comment] box.

In the [Comment] box, type any comment on printers within 31 characters.

2 Click the [NetBEUI] tab.

3 Type the computer name into the [Computer Name] box.

• In the **[Computer Name]** box, type the name that helps you to identify printers using the Net-BEUI protocol. The factory default name consists of "RNP" and the last 3 bytes of the MAC address on the Network Interface Board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". A maximum of 13 characters consisting of uppercase English letters, numeric, or symbols (except "*+,/:;<=>?[\]]. and space) can be used. No name is permitted if the prefix is "RNP". You must avoid the duplication of the same name on a network.

6 Click [OK].

The NIB Setup Tool exits, and the setting is transmitted to the printer.

7 Exit SmartNetMonitor for Admin.



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Web Browser

1 Run the Web browser.

2 Type the address "http:// (IP address of the printer you want to change the settings)". The status of the selected printer is displayed on the Web browser.

Click [Configuration].

A dialog box that prompts you to type the user name and a password appears.

4 Type the user name and the password, and then click [OK].

Type only the password in this dialog box. The factory default password is "password".

5 Change names and comments.

TCP/IP

• Click the [General] tab, and then type the name into the [Printer Name] box and comment into the [Comment] box.

- In the **[Printer Name]** box, type the name of the printer within 13 characters. The factory default name consists of "RNP" and the last 3 bytes of the MAC address on the Network Interface Board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". No name of 9 characters is permitted if the prefix is "RNP". Also, when DHCP is selected as an IP address setting, the number of characters is limited to within 13 characters.
- In the [Comment] box, type any comment on printers within 31 characters.



Click the [IEEE 1394], and then type the name into the [Device Name:] box when you change the device name for IEEE 1394 (IP over 1394) interface.

• In the **[Device Name:]** box, type the name of the printer within 13 characters. The factory default name consists of "RNP" and the last 5 bytes of the EUI-64 on the IEEE 1394 (IP over 1394) interface. For example, when the EUI-64 is 00:00:74:00:02:01:0A:66, the factory default name is "RNP0002010A66". No name of 13 characters is permitted if the prefix is "RNP".

NetBEUI

Click [NetBEUI].

2 Type the name into the [Computer Name] box and comment into the [Comment] box.

• In the **[Computer Name]** box, type the name that helps you to identify printers using the Net-BEUI protocol. The factory default name consists of "RNP" and the last 3 bytes of the MAC address on the Network Interface Board. For example, when the MAC address is 00:00:74:62:7D:D5, the factory default name is "RNP627DD5". A maximum of 13 characters consisting of uppercase English letters, numeric, or symbols (except "*+,/:;<=>?[\]]. and space) can be used. No name is permitted if the prefix is "RNP". You must avoid the duplication of the same name on a network.

6 Click [Apply].

The setting is transmitted to the printer.

7 Exit the Web browser.



Displaying the Status of Printer

You can view the status of printers using SmartNetMonitor for Admin, SmartNetMonitor for Client, or Web browser.

SmartNetMonitor for Admin

1 Run SmartNetMonitor for Admin.

2 Click the [Group] menu, point to [Search Device], and then select [TCP/IP] or [IPX/SPX].

The status of printers is indicated with an icon in the list.

🔗 Note

- □ For more information about the status icons, see SmartNetMonitor for Admin Help.
- **3** Getting further information, click the desired printer to select from the list, and then click [Open] on the [Device] menu.

The status of the printer is displayed on the dialog box.

🔗 Note

 $\hfill\square$ For more information about each item on the dialog box, see Help.



SmartNetMonitor for Client

Viewing the status of printers using SmartNetMonitor for Client, you must, in advance, configure SmartNetMonitor for Client so it monitors the printer whose status you want to view.

Monitoring Printers

1 Run SmartNetMonitor for Client.

The SmartNetMonitor for Client icon appears at the right end of the taskbar.

2 Right-click the SmartNetMonitor for Client icon, and check if the desired printer is configured on the pop-up menu that appears.

If it is configured, see p.115 "Displaying the Status of Printers".

3 If the desired printer is not configured, click [Options] on the pop-up menu.

The [SmartNetMonitor for Client - Options] dialog box appears.

4 Click the printer to be monitored, and select the [To Be Monitored] check box from the [Monitoring Information Settings] group.

🔗 Note

Selecting the **[Displayed on Task Bar]** check box will bring up the status of a printer with an icon on the SmartNetMonitor for Client icon on the task tray.

5 Click [OK].

The dialog box closes and the configured printer is monitored.



Displaying the Status of Printers

1 Run SmartNetMonitor for Client.

2 The status of printers is displayed on the SmartNetMonitor for Client icon on the task tray.

- 🔗 Note
- □ For more information about the status icons, see Help.
- **3** Getting further information on the status, right-click the SmartNetMonitor for Client icon, and then click the desired printer.

The status of the printer is displayed on the dialog box.

🔗 Note

□ For more information about each item on the dialog box, see Help.

Web Browser

1 Run the Web browser.

2 Type the address "http:// (IP address of the printer whose status you want to view)".

The status of the selected printer is displayed on the Web browser.

3 Click [Status] and you can check the status of the printer.

🔗 Note

□ For more information about each item, see Help.



8. Making Printer Settings with the Control Panel ¹¹⁶

Menu Chart

This section describes how to change the default settings of the printer and provides information about the parameters included in each menu.

Category	Function Menu				
Sample Print ^{*1}	Select Action / Error File(s)				
Locked Print *1	Select Action / Error File(s)				
Paper Input \Rightarrow p.122	Bypass Size				
	Paper Type				
	Tray Locking				
	Tray Priority				
List/Test Print \Rightarrow p.129	Config. Page				
	Menu List				
	Color Demo Page				
	PS Config. Page				
	PCL Config.Page				
	Hex Dump				
Maintenance \Rightarrow p.136	Color Regist.				
	Image Density				
	Registration				
	PlainPaper Type				



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Category	Function Menu				
Maintenance \Rightarrow p.136	Maint. Reset				
	HDD Format *2				
	ROM Update *3				
	4C.Graphic Mode				
	WL.LAN Signal *4				
	WL.LAN Defaults				
	Print Area				
	Key Repeat				
	Menu Protect *5				
	Series Prnt.Job *5				
System \Rightarrow p.149	MisfeedRecovery				
	Prt. Err Report				
	Auto Continue				
	Memory Overflow				
	Copies				
	Printer Lang.				
	Sub Paper Size				
	Page Size				
	Duplex *6				



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Category	Function Menu
System \Rightarrow p.149	Energy Saver 1
	E. Saver2 Timer
	Unit of Measure
	Resolution
	B&W Page Detect
	Spool Printing *2
	Letterhead Mode *5
	E.Saver2 OnOff *5
Host Interface \Rightarrow p.159	I/O Buffer
	I/O Timeout
	Network Setup *7
	IEEE 1394 Setup *8
	IEEE 802.11b *9
	USB Setting *5



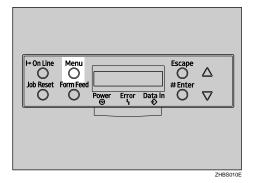
Category	Function Menu
PCL Menu \Rightarrow p.171	Orientation
	Form Lines
	Font Source
	Font Number
	Point Size
	Font Pitch
	Symbol Set
	Ext. A4 Width
	Append CR to LF
Language \Rightarrow p.177	

- ^{*1} The "Sample Print" menu and the "Locked Print" menu appear only when the optional Printer Hard Disk is installed.
- ^{*2} The "HDD Format" and the "Spool Printing" menu appears only when the optional Printer Hard Disk is installed.
- *3 ROM Update is not currently used.
- *4 The "WL.LAN Signal" menu appears only when "IEEE 802.11b" is selected in "LAN Type" in the Host Interface menu.
- *5 While the printer is On Line, press the [Enter #] key, and then press the [Escape] key, finally press the [Menu] key. You can access the "Menu Protect", "Series Prnt.Job" "Letterhead Mode", "E.Saver2 OnOff", "USB Setting" on the panel display.
- ^{*6} The "Duplex" menu appears only when the optional AD440 is installed.
- *7 The "Network Setup" menu appears only when the optional Network Interface Unit or 802.11b Interface Unit is installed.
- ^{*8} The "IEEE 1394 Setup" menu appears only when the optional 1394 Interface Unit is installed.
- *9 The "IEEE 802.11b" menu appears only when the optional 802.11b Interface Unit is installed. Download from Www.Somanuals.com. All Manuals Search And Download.



Accessing the Main Menu

Press the [Menu] key, and "Menu" appears on the panel display.



This menu shows the following 9 items which can be displayed one by one by pressing the [A] or [V] key.

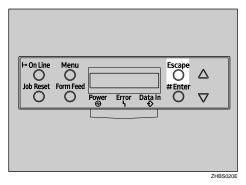
- Sample Print
- Locked Print
- Paper Input
- List/Test Print
- Maintenance
- System
- Host Interface
- PCL Menu
- Language

🔗 Note

□ If the optional Printer Hard Disk is not installed, the "Sample Print" menu and the "Locked Print" menu cannot be displayed on the work of the same of the same



- \Box [\checkmark]: Press to go to the next page.
- \Box [\blacktriangle]: Press to go back to the previous page.
- □ After making the printer settings, be sure to return to the previous menu by pressing the **[Escape]** key.



□ After making the printer settings, press the **[On Line]** key to return to the "Ready" condition.

icape O ∆ Enter O ▽
ZHBS050F

□ The revised settings are not canceled even if the power switch is turned off.



Paper Input Menu

There are 4 menu items in the "Paper Input" menu.

- Bypass Size
- Paper Type
- Tray Locking
- Tray Priority

🔑 Reference

For more information about loading paper in the tray, see the Option Setup Guide.

Paper Input Parameters

Menu	Description
Bypass Size	The paper size for the bypass tray.
	For more information about paper sizes that can be set in the bypass tray, see "Pa- per and Other Media Supported by This Printer" in the Maintenance Guide.
	8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, A4 (210x297), B5JIS (182x257), A5 (148x210), A6 (105x148), 16K (195x267), 4 1/8 x 9 1/2, 3 7/8 x7 1/2, C5 Env(162x229), C6 Env(114x162), DL Env(110x220), Custom Size
	 Note Default: A4 (210x297) (Metric version), 11 x 8 1/2 (Inch version)



Menu	Description
Paper Type	If you use different kinds of paper, set the paper type for Tray 1, Tray 2, Tray 3 or Bypass Tray.
	For more information about paper sizes that can be set in each tray, see the Main- tenance Guide.
	Tray 1, Tray 2, Tray 3 Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Pre- printed, Prepunched, Bond Paper
	Bypass Tray Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Pre- printed, Prepunched, Labels, Bond Paper, Cardstock, Transparency, Thick Paper, Thick:Dup.Back, Glossy Paper
	 Note Default : Plain Paper Only the installed trays appear on the panel display.





Menu	Description			
Tray Locking	If you use different kinds of paper, you can lock a tray to prevent printing on wrong paper such as letterhead or colored paper. When "Auto Select" is selected in the Paper Source selections from the printer driver, the locked tray will not be used. You can select each tray set to on or off.			
	Tray 1, Tray 2, Tray 3			
	Note			
	Default : Off			
	Only the installed trays appear on the panel display.			
	You can lock multiple trays.			
	If you want to use the locked tray, you must select the tray from the printer driver and the control panel each.			
	When a locked tray is selected from the printer driver, the printer does not search for another tray.			
Tray Priority	You can set which tray should be checked first when "Auto tray Select" is select- ed in the Paper Source selections from the printer driver. When printing from DOS, the tray selected here is used when no tray is selected for a print job.			
	Tray 1, Tray 2, Tray 3			
	🤗 Note			
	Default : Tray 1			
	Only the installed trays appear on the panel display.			
	It is recommended that you load paper of the size and direction you most frequently use in the tray selected with "Tray Priority".			



Changing the Paper Input Menu

Tray Locking

1 Press the [Menu] key.

→ On Line	Menu					
0	Form Feed	Power	Error	Data In €	Escape	
						0.040

"Menu" appears on the panel display.

2 Press the **[▲]** or **[▼]** key to display "Paper Input", and then press the **[Enter #]** key.

Menu: Paper Input



B Press the [▲] or [▼] key to display "Tray Locking", and then press the [Enter #] key.

Paper Input: Tray Lockin8

Press the [▲] or [▼] key to display the tray to change the tray locking off, and then press the [Enter #] key.

Tray Lockins: Tray 1

🔗 Note

□ The Bypass Tray would not be locked.

5 Press the **[**▲**]** or **[**▼**]** key to display ''Off'', and then press the **[Enter #]** key.

Tray 1: *Off

Wait for two seconds.

"Paper Input" appears on the panel display.

6 Press the [On Line] key.

"Ready" appears on the panel display.



Tray Priority

Press the [Menu] key.

H→ On Line Menu Job Reset Form Feed O O Power Error Data	Escape ↓ Enter
]

"Menu" appears on the panel display.

2 Press the [▲] or [▼] key to display "Paper Input", and then press the [Enter #] key.

Menu: Paper Input

B Press the [▲] or [▼] key to display "Tray Priority", and then press the [Enter #] key.

Paper Input: Tray Priority

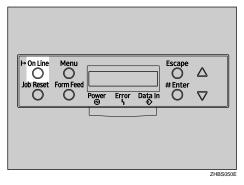
4 Press the **[▲]** or **[▼]** key to select the tray type you want to use.



5 Press the [Enter #] key. Wait for two seconds.

"Menu" appears on the panel display.

6 Press the **[On Line]** key.



"Ready" appears on the panel display.

Ready



List/Test Print Menu

There are 6 menu items in the "List/Test Print" menu.

- Config. Page
- Menu List
- Color Demo Page
- PS Config. Page
- PCL Config.Page
- Hex Dump

List/Test Print Parameters

Menu	Description
Config. Page	You can print the current configuration of the printer. See p.130 "Printing a Con- figuration Page".
Menu List	You can print the Menu List which shows the function menus of this printer.
Color Demo Page	You can print the Color Demo Page.
PS Config. Page	You can print a list of the installed PS Fonts.
PCL Config.Page	You can print the current configuration of the PCL.
Hex Dump	You can print the Hex Dump.



Printing a Configuration Page

🔑 Reference

For more information, see p.133 "Interpreting the Configuration Page".

Press the [Menu] key.

H→ On Line O Job Reset	Menu Form Feed	Power	Error	Data In	Escape	∆ ⊽	
							71/1000040

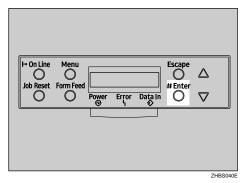
"Menu" appears on the panel display.

2 Press the **[v]** or **[A]** key to display the ''List/Test Print'' menu.

Menu: List/Test Print



3 Press the [Enter #] key.



The following message appears on the panel display.

```
List/Test Print:
Confië. Paëe
```

4 Press the [Enter #] key.

The following message appears on the panel display.

```
Printin8...
```

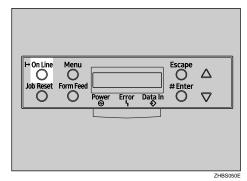
In a short time, the printing of the configuration page will start.

Important

□ If you cannot print the configuration page, check for an error message appears on the panel display. For more information about error messages, see "*Troubleshooting*" in the Maintenance Guide.



5 Press the [On Line] key.



"Ready" appears on the panel display.

Ready



Interpreting the Configuration Page

System Reference

Printer ID

Shows the serial number assigned to the board by its manufacturer.

Firmware Version

- Firmware Shows the version number of the printer controller firmware.
- Engine Shows the version number of the printer engine firmware.
- NCS

Shows the version number of the Network Interface Board.

Pages Printed

Shows the total number of pages printed by the printer to date.

Total Memory

Shows the total amount of memory (SDRAM) installed on the printer.

Controller Option

The item(s) appears when the controller option(s) is installed.

Printer Language

Shows the version number of the printer language.



Options

Shows the options that you installed.

Paper Input

Shows the settings made under the "Paper Input" menu.

🔑 Reference

For more information, see p.122 "Paper Input Menu".

Maintenance

Shows the settings made under the "Maintenance" menu.

🔑 Reference

For more information, see p.136 "Maintenance Menu".

System

Shows the settings made under the "System " menu.

🔑 Reference

For more information, see p.149 "System Menu".



PCL Menu

Shows the settings made under the "PCL Menu".

✓ Reference

For more information, see p.171 "PCL Menu".

Host Interface

Shows the settings made under the "Host Interface" menu.

When DHCP is active on the network, the actual IP Address, Subnet Mask and Gateway Address appear in parentheses on the configuration page.

🔑 Reference

For more information about the "Host Interface" menu, see p.159 "Host Interface Menu".

Interface Information

Shows the interface information.

Error Log

Shows the log of printer errors.



Maintenance Menu

There are 13 menu items in the "Maintenance" menu.

- Color Regist.
- Image Density
- Registration
- PlainPaper Type
- Maint. Reset
- HDD Format
- ROM Update
- 4C.Graphic Mode
- WL.LAN Signal
- WL.LAN Defaults
- Print Area
- Key Repeat
- Menu Protect
- Series Prnt.Job



Maintenance Menu Parameters

Menu	Description
Color Regist.	You can adjust the color alignment for each color (black, cyan, magenta, yellow)
	✓ Reference
	For more information about how to registration, see "Adjusting the Color Registration" in the Maintenance Guide.
Image Density	Prt. Test Sheet
	You can print the registration test sheet.
	Black, Cyan, Magenta, Yellow
	You can specify per color the image density in the range of -10 to $+10$.
	◆ Reset→Defaults This function returns settings to their default values.





Menu	Description
Registration	 Prt. Test Sheet You can print the registration test sheet. Tray 2, Tray 3, Duplex.BackSide
	 Adjustment You can select the start position for printing on page. Horiz.: Tray 2, Horiz.: Tray 3, Horiz.:Dup.Back -15 to +15 (by 1) One step is 1/300 inch (0.8 mm)
	 Note The registration values are not default. Only the installed trays appear on the panel display.
PlainPaper Type	 You can select the type of plain paper you wish to use as a default. Tray 1, Tray 2, Tray 3, Bypass Tray Thin
Maint. Reset	Normal Maintenance Reset allows the user to reset each internal unit counters such as the Transfer Belt and Fusing Unit. These counters can be reset at anytime, but are necessary at the time of unit reinstallation. For more information, see " <i>Replacing Consumables</i> " in the Maintenance Guide.
HDD Format	You can format the Printer Hard Disk. Available when the optional Printer Hard Disk is installed.
	Reference For more information about formatting the Printer Hard Disk, see "Printer Hard Disk Type 3000" in the Option Setup Guide. wnload from Www.Somanuals.com. All Manuals Search And Download



Menu	Description
ROM Update	This menu is not currently used.
4C.Graphic Mode	This setting adjusts how much each color of toner overlaps when printing. If characters or lines are blurred, selecting [Text Priority] may make them clearer. Select [Photo Priority] for normal use.
	Default:Photo Priority
WL.LAN Signal	You can check the signal strength when using the wireless LAN.
	Reference For more information about displaying the signal strength. See p.144 "Displaying the Signal Strength".
WL.LAN Defaults	You can reset the wireless LAN settings to the default.
Print Area	 You can extend the printable area by about 2.5 mm (0.01 inch). Normal Enlarge Area Note
	Default:Normal
Key Repeat	The default setting [On] enables the user to scroll through menu items and settings by holding the key down continuously, the [Off] setting requires the user to press the key for each Cursor/Scroll movement.



Menu	Description
Menu Protect *1	 This procedure lets you protect menu settings against accidental changes. It makes it impossible to change the menu settings you make with the normal procedure unless you perform the required key operation. In a network environment, protecting settings restricts changes to menu settings to network administrators. Level 1 Level 2 Off
	 Note While the printer is On Line, press the [Enter #] key, and then press the [Escape] key, finally press the [Menu] key. You can access the "Menu" key. You can access the
	 "Menu Protect" menu on the panel display. You can protect the "Maintenance", "System ", "Host Interface" and "Language" menu on Level 1.
	 You can protect the "Paper Input", "Maintenance", "System ", "Host Interface" and "Language" menu on Level 2.
Series Prnt.Job *1	You can print series of print jobs without time intervals between them when jobs are sent from the same computer, PDL, and interface.
	 Note Default: On When the Job Reset key is pressed, all jobs sent to the machine will be canceled.

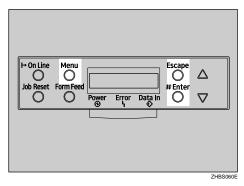
^{*1} While the printer is On Line, press the **[Enter #]** key, and then press the **[Escape]** key. Finally, press the **[Menu]** key. You can access the "Menu Protect", and "Series Prnt.Job" menu on the panel display.



Changing the Maintenance Menu

Protecting the menus

- 1 Check if the On Line indicator is on. If not, press the [On Line] key to enter the "Ready" condition.
- **2** Press the [Enter #] key, then the [Escape] key, and then the [Menu] key.



"Menu" appears on the panel display.



Press the [▲] or [▼] key to display the "Maintenance" menu, and then press the [Enter #] key.

The following message appears on the panel display.

Maintenance: Color Rešist.

4 Press the [▲] or [▼] key to display "Menu Protect".

Maintenance: Menu Protect

5 Press the **[Enter #]** key.

The following message appears on the panel display.

Menu Protect: *Off

Derive The [▲] or [▼] key to select the levels desired, and then press the [Enter #] key. Wait for two seconds.

"Maintenance" appears on the panel display.



7 Press the [On Line] key.

H On Line Menu O O Job Reset Form Feed O O Power Error Data In O ∇	

"Ready" appears on the panel display.

Ready

Removing Protect

1 Check if the On Line indicator is on. If not, press the [On Line] key to enter the "Ready" condition.

2 Press the [Enter #] key, then the [Escape] key, and then the [Menu] key.

"Menu" appears on the panel display.



B Press the [▲] or [▼] key to display "Maintenance" menu, and then press the [Enter #] key.

The following message appears on the panel display.

Maintenance: Color Re&ist.

4 Press the **[▲]** or **[▼]** key to display "Menu Protect", and then press the **[Enter #]** key.

5 Press the [▲] or [▼] key to display "Off", and then press the [Enter #] key. Wait for two seconds.

"Maintenance" appears on the panel display.

6 Press the **[On Line]** key.

"Ready" appears on the panel display.

Displaying the Signal Strength

If you need to check the IEEE 802.11b (Wireless LAN) signal, select "WL.LAN Signal" in the "Maintenance" menu.

1 Press the [Menu] key.

"Menu" appears on the panel display.

2 Press the **[▼]** or **[▲]** key to display the "Maintenance" menu.

Menu: Maintenance



3 Press the [Enter #] key.

The following message appears on the panel display.

```
Maintenance:
Color Rešist.
```

4 Press the **[▼]** or **[▲]** key to display "WL.LAN Signal".

```
Maintenance:
WL.LAN Signal
```

5 Press the [Enter #] key.

One of the following messages appears on the panel display.

WL.LAN Signal Good 100%

WL.LAN Signal Fair 50%

WL.LAN Siếnal Poor 30%

WL.	LAN	Si≋nal	
Una	vail	аьте	18%



🔗 Note

- □ If "WL.LAN Signal" is not displayed, "IEEE 802.11b" has not been selected for "LAN Type" in "Network Setup" of the Host Interface menu. Select "IEEE 802.11b" for "LAN Type", and then check the "WL.LAN Signal" in the Maintenance menu again.
- □ If "802.11 Ad hoc" or "Ad hoc" in "Comm. Mode" of "IEEE 802.11b" in the Host Interface menu is selected, you cannot check the signal. Select "Infrastructure" and then check it again.
- D Every time you press the **[Enter #]** key, the signal is updated.
- □ The signal is indicated as "Good" if the signal strength is 76-100%, "Fair" if the strength is 41-75%, "Poor" if the strength is 21-40%, and "Unavailable" if the strength is 0-20%. If the signal is unstable or unavailable, remove obstacles or move the printer to a place where the signal can be received.
- □ Using wireless devices or microwave sources near the printer might affect the signal.

6 Press the **[Escape]** key.

7 Press the [On Line] key.

"Ready" appears on the panel display.

Ready

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Resetting the IEEE 802.11b (Wireless LAN) Settings

If you need to reset the wireless LAN setting, select "WL.LAN Defaults" in the Maintenance menu.

🔗 Note

□ The five items that can be reset in "IEEE 802.11b" of the Host Interface menu are "Comm. Mode", "Channel", "Trans. Speed", "WEP Setting ", and "SSID".

Press the [Menu] key.

"Menu" appears on the panel display.

2 Press the **[▼]** or **[▲]** key to display the "Maintenance" menu.

Menu: Maintenance

B Press the [Enter #] key.

The following message appears on the panel display.

Maintenance: Color Re%ist.

4 Press the **[▼]** or **[▲]** key to display "WL.LAN Defaults".

Maintenance: WL.LAN Defaults



5 Press the [Enter #] key.

WL.LAN Defaults Reset→Defaults

6 Press the [Enter #] key.

The following message appears on the panel display.

Defaults reset

The wireless LAN setting value is reset. "Ready" appears on the panel display.

Ready





System Menu

There are 14 menu items in the "System " menu.

- MisfeedRecovery
- Prt. Err Report
- Auto Continue
- Memory Overflow
- Copies
- Printer Lang.
- Sub Paper Size
- Page Size
- Duplex
- Energy Saver 1
- E. Saver2 Timer
- Unit of Measure
- Resolution
- B&W Page Detect
- Spool Printing
- Letterhead Mode
- E.Saver2 OnOff



System Parameters

Menu	Description
MisfeedRecovery	You can select whether Misfeed Recovery is enabled. When it is on, printing re- starts after the misfed paper has been cleared.
	• On
	• Off
	✓ Note□ Default: On
Prt. Err Report	 You can select whether or not to have an error report printed when a printer error or memory error occurs. On Off
	 Note Default: Off





Menu	Description
Auto Continue	 You can set whether Auto Continue is enabled. When it is on, printing continues after a system error occurs. Off 0 minutes 1 minute 5 minutes 10 minutes 15 minutes
	 Note Default: Off When it is on, and certain types of error occur, the current job might be canceled, and the machine automatically resumes the next job.
Memory Overflow	 You can select whether the memory overflow error report should be printed. Not Print Error Report ⊘ Note □ Default: Not Print
Printer Lang.	 You can specify how many pages to print. This setting is disabled if the number of pages to print has been specified with the printer driver or a command. 1-999



Menu	Description
Printer Lang.	 You can specify the printer language. Auto Detect PCL PS
	NoteDefault: Auto Detect
Sub Paper Size	 You can enable the Sub Paper Size feature. When you select "Auto ", the printer substitutes the paper of a certain size which is to be an alternative if the paper currently specified is not loaded. When you select "Off", the printer uses the paper in the current specified paper input tray regardless of its size. Auto Off
	 Note Default: Off
Page Size	You can specify the default paper size. 8 1/2 x 14, 8 1/2 x 11, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, A4, B5, A5, A6, 16K, 4 1/8 x 9 1/2, 3 7/8 x7 1/2, C5 Env(162x229), C6 Env(114x162), DL Env(110x220), Custom Size
	 Note Default: Metric: A4 Inch: 8 1/2 x 11



Menu	Description
Duplex	 You can select whether you want to print on both sides of each page. Off Short Edge Bind Long Edge Bind
	 Note Default: Off This menu appears only when the optional AD440 is installed.
Energy Saver 1	 You can set On/Off for the Energy Save Mode level 1. This is Preheat mode. On Off Note Default: On When the printer switches to Energy Saver mode, the Power indicator turns off, while the On Line indicator stays on.
E. Saver2 Timer	 You can set how many minutes the printer waits before switching to Energy Saver er mode. Energy Saver mode reduces electric power consumption. 5 minutes, 15 minutes, 30 minutes, 45 minutes, 60 minutes. Note Default: 60 minutes When the printer switches to Energy Saver mode, the Power indicator turns off, while the On Line indicator stays on and "Energy Save Mode" is displayed on the panel display.



Menu	Description
Unit of Measure	You can select "mm" or "inch" for the custom paper size.
	Note
	Default: mm (Metric version), inch (Inch version)
Resolution	You can set the print resolution in dots per inch.
	PCL 300 x 300 dpi, 600 x 600 dpi
	PS3 600 x 600 dpi, 1200 x 1200 dpi, 1200 x 600 dpi
	🤗 Note
	Default: PCL 600 x 600 dpi, PS3 600 x 600 dpi
B&W Page Detect	 You can specify whether the Black & White Page Detect feature is enabled. On Off
	 Note Default: On



1	55
	00

Menu	Description
Spool Printing	 You can select whether all of the print data is spooled to the Printer Hard Disk before printing. On Off Ø Note Default: Off
	 Default: Off Spooling stores the print job sent by a computer temporarily in the printer, transfers the print job, and then prints it. This menu appears Only when the optional Printer Hard Disk is installed.
Letterhead Mode *1	 You can select the letterhead printing mode. Off Auto Detect
E.Saver2 OnOff *1	 You can set On/Off for the Energy Save Mode level 2. On Off Ø Note Default: On

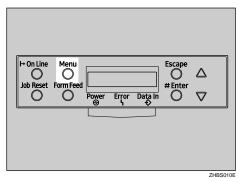
^{*1} While the printer is On Line, press the **[Enter #]** key, and then press the **[Escape]** key. Finally, press the **[Menu]** key. You can access the "Letterhead Mode", "E.Saver2 OnOff" menu on the panel display.



Changing the System Menu

The following example describes how to change the settings for "E. Saver2 Timer".

1 Press [Menu].



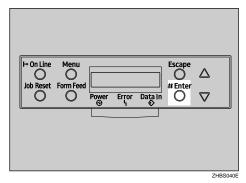
"Menu" appears on the panel display.

2 Press [▲] or [▼] to display "System ".

Menu: System



B Press [Enter #].



The following message appears on the panel display.

```
System :
MisfeedRecovery
```

Press [▲] or [▼] to display "E. Saver2 Timer", and then press [Enter #].

System : E. Saver2 Timer

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E Press [▲] or [▼] to select how many minutes the printer waits before switching to Energy Saver mode.

The following message appears on the panel display.

E. Saver2 Timer *30 minutes

6 Press [Enter #]. Wait for two seconds.

"Menu" appears on the panel display.

7 Press [On Line].

Image: Point Line Menu Escape Job Reset Form Feed #Enter Power Error Data in	
7/65	

"Ready" appears on the panel display.

Ready



Host Interface Menu

There are 6 menu items in the "Host Interface" menu.

- I/O Buffer
- I/O Timeout
- Network Setup
- IEEE 1394 Setup
- IEEE 802.11b
- USB Setting

🔗 Note

□ For more information about the "Network Setup", see "*Configuring the printer for the Network*" in the Quick Installation Guide.



Host Interface Parameters

Menu	Description
I/O Buffer	You can set the size of the I/O Buffer. Normally it is not necessary to change this setting. 128 KB, 256 KB, 512 KB
I/O Timeout	 You can set how many seconds the printer should wait before ending a print job. If data from another port often appears in the middle of the print job, you should increase the timeout value. 10 seconds, 15 seconds, 20 seconds, 25 seconds, 60 seconds Note Default: 15 seconds





1	61
	• •

Menu	Description
Network Setup	 DHCP You can set how the Network Interface Board acquires TCP/IP settings. Note Default: On
	Reference See "Configuring the Printer for the Network" in the Quick In- stallation Guide.
	IP Address You can set the IP address.
	 Limitation When DHCP is On, its setting cannot be changed. If you want to change the setting, Make the setting for DHCP Off. Consult the network administrator for information about how to make the setting for the network.
	NoteDefault: All zero
	Reference See "Configuring the Printer for the Network" in the Quick In- stallation Guide.



Menu	Description
	Subnet Mask You can set the Subnet mask.
	 Limitation When DHCP is On, its setting cannot be changed. If you want to change the setting, Make the setting for DHCP Off. Consult the network administrator for information about how to make the setting for the network.
	NoteDefault: All zero
	Reference See "Configuring the Printer for the Network" in the Quick In- stallation Guide.
	♦ Gateway Address
	You can set the gateway address.
to change the setting, Make the setting for DHCF the network administrator for information about h	 Limitation When DHCP is On, its setting cannot be changed. If you want to change the setting, Make the setting for DHCP Off. Consult the network administrator for information about how to make the setting for the network.
	NoteDefault: All zero
Reference See "Configuring the Printer for the Network" in the Quic stallation Guide. Download from Www.Somanuals.com. All Manuals Search And Download.	



Menu	Description		
	Frame Type (NW)		
	You can set the Frame type for NetWare.		
	🔗 Note		
	Default: Auto		
	♦ Active Protocol		
	You can set the active protocol.		
	TCP/IP, NetWare, NetBEUI, AppleTalk		
	🔗 Note		
	Default: All Active		





Menu	Description		
	Ethernet You can select the speed of the network that the printer is connected to. Auto, 10 Mbps, 100 Mbps		
	NoteDefault: Auto		
	Reference See "Configuring the Printer for the Network" in the Quick In- stallation Guide.		
	LAN Type You can select Ethernet or IEEE 802.11b for the LAN Type.		
	NoteDefault: Ethernet		
	Appears Only when the optional 802.11b Interface Unit is in- stalled.		
	Reference For more information about Network Setup, see "Configuring the Printer for the Network" in the Quick Installation Guide.		



Menu	Description			
IEEE 1394 Setup *1	You can make settings for using IEEE 1394. This menu appears only when the optional IEEE 1394 board is installed.			
	IP Address1394 You can set the IP address for IEEE 1394 (IP over 1394).			
	 Note Default: All zero 			
	Subnet Mask1394 You can set the Subnet Mask for IEEE 1394 (IP over 1394).			
	NoteDefault: All zero			
	IP over 1394 You can activate IP over 1394.			
	NoteDefault: Active			
	SCSI print You can activate SCSI print.			
	NoteDefault: Active			
	 Bidi-SCSI print You can activate bidirectional transmission for SCSI print. 			
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Menu	Description		
IEEE 802.11b *2	You can make settings for using the wireless LAN. This menu appears only when the optional 802.11b Interface Unit is installed.		
	✤ Comm. Mode		
	You can set the transmission mode for IEEE 802.11b.		
	Default: 802.11 Ad hoc		
	Channel The selectable channels are 1-11 (Inch version) and 1-13 (Metric version).		
	 Note Default: 11 		
	Trans. Speed You can set the transmission speed for IEEE 802.11b.		
	Note		
	Default: Auto		



1	6	7

Menu	Description		
	 \$ SSID You can set for SSID in Infrastructure mode and 802.11 Ad hoc mode. Limitation Select "¥" if you want to enter "/" in the SSID. Also, "¥" appears 		
	 when printing the configuration page, read it as "/". Note The characters that can be used are ASCII 0x20-0x7e (32 bytes). 		
	A SSID value is set automatically to the nearest access point if the setting has not been made.		
	If the setting has not been made for 802.11 Ad hoc mode, the same value as for Infrastructure mode or an "ASSID" value is set automatically.		
	WEP Setting You can set the code for IEEE 802.11b.		
	NoteDefault: Not Active		
	With a 64-bit WEP, you can use 10 digit hexadecimal. With a 128-bit WEP, you can use 26 digit hexadecimal.		
USB Setting	You can set the transmission speed for USB.		
	Default: Auto		

*1 Appears only when the optional 1394 Interface Unit is installed.

*2 Appears only when the optional & 2 shall a set and Download.



Changing the Host Interface Menu

The following example describes how to change the setting for "I/O Timeout".

Press the [Menu] key.

H+ On Line	Menu Form Feed	Power	Error	Data In	Escape	△ ▽	
						ZHBS0	405

"Menu" appears on the panel display.

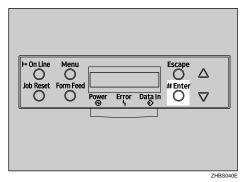
2 Press the **[▲]** or **[▼]** key to display the "Host Interface" menu.

Menu: Host Interface

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3 Press the [Enter #] key.



The following message appears on the panel display.

Host Interface: I/O Buffer

4 Press the [▲] or [▼] key to display "I/O Timeout".

Host Interface: I/O Timeout

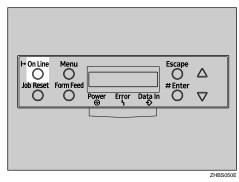
5 Press the [Enter #] key.

The following message appears on the panel display.

I∕O Timeout: *15 seconds



- Press the [▲] or [▼] key to select how many minutes the printer waits before ending a print job.
- **2** Press the [Enter #] key. Wait for two seconds.
 - "Host Interface" appears on the panel display.
- 8 Press the [On Line] key.



"Ready" appears on the panel display.

Ready



PCL Menu

There are 9 menu items in the "PCL Menu".

- Orientation
- Form Lines
- Font Source
- Font Number
- Point Size
- Font Pitch
- Symbol Set
- Ext. A4 Width
- Append CR to LF

PCL Parameters

Menu	Description	
Orientation	You can set the page orientation.	
	• Portrait	
	• Landscape	
	NoteDefault: Portrait	



Menu	Description
Form Lines	You can set the number of lines per page. 5-128
	 Note Default: 64 (Metric version), 60 (Inch version)
Font Source	You can set the location of the default font. Resident RAM HDD
	 Note Default: Resident When you select "RAM", you can select only fonts downloaded to the printer RAM.
Font Number	 You can set the ID of the default font you want to use. 0 to 50 (for Resident) 0 to 44 (for RAM) 1 to 32767 (for HDD)
	 Note Default: 0
Point Size	You can set the point size you want to use for the default font. 4 to 999.75 by 0.25
D	 Note Default: 12.00 points This setting is effective only for a variable-space font. ownload from Www.Somanuals.com. All Manuals Search And Download.



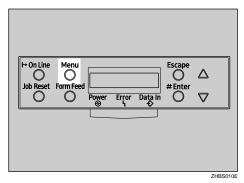
Menu	Description	
Font Pitch	You can set the number of characters per inch you want to use for the default font. 0.44 to 99.99 by 0.01	
	Note	
	Default: 10.00 pitch	
	This setting is effective only for a fixed-space font.	
Symbol Set	You can specify the set of print characters for the default font. The available op- tions are as follows:	
	Roman-8, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, PC8-TK, Win L1, Win L2, Win L5, Desktop, PS Text, VN Intl, VN US, MS Publ, Math-8, PS Math, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0	
	✓ Note	
	Default: Roman-8	
Ext. A4 Width	You can extend the width of the printable area for an A4 sheet leaving a narrow margin on the sides.	
	• On	
	• Off	
	Solution Note	
	□ Default: Off	
Append CR to LF	By adding a CR code to each LF code, you can print text data clearly.	
	• On	
	• Off	
Do	Default: Off wnload from Www.Somanuals.com. All Manuals Search And Download.	



Changing the PCL Menu

The following example describes how to change the setting for "Orientation".

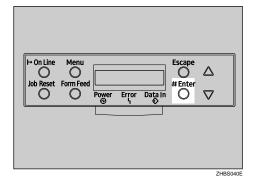
Press the [Menu] key.



"Menu" appears on the panel display.



2 Press the [▲] or [▼] key to display "PCL Menu", and then press the [Enter #] key.



The following message appears on the panel display.

```
PCL Menu:
Orientation
```

3 Press the [Enter #] key.

```
Orientation:
*Portrait
```

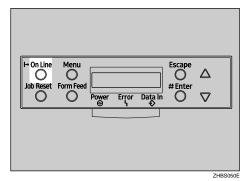
4 Press the [▲] or [▼] key to select the orientation desired, and then press the [Enter #] key. Wait for two seconds.

"PCL Menu" appears on the panel display.



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5 Press the [On Line] key.



"Ready" appears on the panel display.

Ready

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Language Menu

You can select the languages you use. Available language are as follows:

English, German, French, Italian, Spanish, Dutch, Swedish, Norwegian, Danish, Finnish, Portuguese, Czech, Polish and Hungarian.

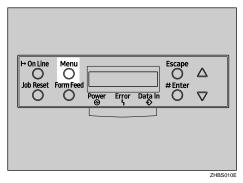
🔗 Note

Default: English

Changing the Language Menu

You can change the language by the following procedures.

Press the [Menu] key.



"Menu" appears on the panel display.



2 Press the [▲] or [▼] key to display ''Language''.

Menu: Lanŝuaŝe

3 Press the [Enter #] key.

I+ On Line Menu Job Reset Form Feed Power Erro Power Erro	Fscape → Datain → Datain
	74850405

The following message appears on the panel display.

Lanŝuaŝe: *Enŝlish

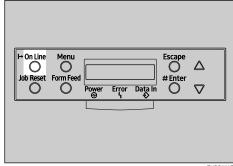
4 Press the **[▲]** or **[▼]** key until the language you want to select appears on the panel display.

5 Press the **[Enter #]** key. Wait for two seconds.

"Menu" appears on the panel display.



6 Press the [On Line] key.



ZHBS050E

"Ready" appears on the panel display.

Ready

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9. Appendix

SNMP

The Network Interface Board functions as a SNMP (Simple Network Management Protocol) agent using the UDP and IPX protocols. Using the SNMP manager, you can get information about the printer. The factory default community names are "public" and "admin". You can get MIB information using these community names.

🔑 Reference

You can configure SNMP from the command line using telnet. See p.191 "SNMP".

You can configure SNMP from SmartNetMonitor for Admin using the NIB Setup Tool. See Help for SmartNetMonitor for Admin.

You can configure SNMP from your Web browser. See Help on the CD-ROM.

Limitation

- □ The optional 1394 Interface Unit supports TCP/IP only.
- □ The kinds of supported MIBs differ depending on the printer.

Supported MIBs

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB



Spool Printing

With Spool Printing, the whole data of a print job is saved in the Printer Hard Disk before printing. To use this function, set it from the menu. See p.149 "System Menu".

Important

Do not turn off the printer or the computer when a print job is being spooled and the Data In indicator is blinking. If you do, the print job will remain in the Printer Hard Disk and be printed when the printer is turned on.

Limitation

- □ Spool Printing does not appear unless the optional Printer Hard Disk is installed.
- □ Data that has been received in the protocol other than LPD or IPP cannot be spooled.
- □ Up to 50 jobs (approximately 1000 MB) can be spooled at a time.
- □ When Spool Printing is on, the size of a single print job cannot exceed 500 MB.
- When sending spooled print jobs from more than one computer at the same time, up to five LPR jobs and one IPP job can be spooled. Jobs exceeding the maximum number cannot be spooled. Wait until the number of spooled print jobs falls below the maximum.

🔗 Note

□ When "On" is selected, the first print will take time.

🔗 Note

□ Spool jobs stored in the machine can be viewed or deleted using a Web browser.



Viewing/Deleting spool jobs in a Web browser

Launch the Web browser and enter the machine's IP address in the address bar. This displays the top page.

Example: http://192.168.0.10

(In this example, the IP address of the machine is 192.168.0.10)

Click "Admin Info", and then "Spool Printing Job List (Printer)" to display the spool jobs. To delete, check the box next to the name of the file you want to delete. Enter the password *1 , and then click **[Delete]**. For more information, see p.103 "Configuring the Network Interface Board Settings".

^{*1} The default password is "password".

• VSetting Spool Printing

Spool Printing can be set using telnet or a Web browser.

- Using a Web browser Click "Configuration", and then "General". Set "Spool Printing" to "Enable".
- Using telnet

Enter "spoolsw spool on" to set Spool Printing.

Reference

For more information about how to set up the spool printing, see the Help file.



Remote Maintenance by telnet

You can view the printer status and configure the Network Interface Board using telnet.

🔗 Note

□ You should specify a password so that only the network administrator, or a person having network administrator privileges, can use remote maintenance.

Using telnet

The following is a sample procedure in using telnet.

- Limitation
- Only one person at a time can be logged on to do remote maintenance.

1 Use the IP address or the host name of the printer to start telnet.

- % telnet *IP_address*
- 🔗 Note
- □ In order to use the host name instead of the IP address, you must write it to the "/etc/hosts" file.

2 Type the password.

🔗 Note

□ The factory default is "password".

3 Type a command.

✓ Reference

For more information about telnet commands, see p.184 "Commands List".



4 Exit telnet.

msh> logout

When the configuration is changed, a confirmation message requests whether or not the changes should be saved.

5 Type "yes" to save the changes, and then press [Enter].

If you do not want to save the changes, type "no", and then press **[Enter]**. If you want to make additional changes, type "return" at the command line, and then press **[Enter]**.

🔗 Note

- □ If the "Can not write NVRAM information" message appears, the changes are not saved. Repeat the steps above.
- □ The Network Interface Board is reset automatically when the settings are changed.
- □ When the Network Interface Board is reset, the active print job which has already been sent to the printer will finish printing. However, jobs that have not been sent yet will be canceled.

Commands List

This is a list of commands that can be used via remote maintenance.

🔗 Note

□ Type "help" to see a list of commands that can be used.

msh> help

□ Type "help command_name" to display information about the syntax of that command. msh> help command name



TCP/IP address

Use the ifconfig command to configure TCP/IP (IP address, subnet mask, broadcast address, default gateway address) for the machine.

Reference

msh> ifconfig

Configuration

msh> ifconfig interface_name parameter address

Interface name	Interface to be configured
ether	Ethernet Interface *1
nafO	
ip1394 *2 fwip0 *2	IEEE 1394 Interface
fwip0 *2	
wlan *3	IEEE 802.11b Interface
wi0 *3	

^{*1} If you did not enter the interface name, it will be automatically set to the Ethernet interface.

^{*2} Available when the optional 1394 Interface Unit is installed.

*3 You can specify an interface when installing the optional 802.11b Interface Unit.

Parameter	Meaning
(no parameter)	IP address
netmask	subnet mask
broadcast	broadcast address



Changing the Interface

You can specify either the LAN interface or IEEE 802.11b interface when using the optional 802.11b Interface Unit.

msh> ifconfig interface up

🔗 Note

□ You cannot specify the IEEE 1394 interface.

The following is an example for configuring an IP address of 192.168.15.16 on Ethernet interface.

msh> ifconfig ether 192.168.15.16

The following is an example for configuring a subnet mask of 255.255.255.0 on Ethernet interface.

msh> ifconfig ether netmask 255.255.255.0

🔗 Note

- □ This affects the configuration of the Network Interface Board of the IP address that is used.
- □ The TCP/IP setting is the same as that for the LAN interface and IEEE 802.11b interface.
- □ To type an address using hexadecimal, prefix it by "0x".



Address

Subnet Mask

A number used to mathematically "mask" or hide the IP address on the network by eliminating those parts of the address that are alike for all the machines on the network.

🔗 Note

- To get the above addresses, contact your network administrator.
- □ The subnet mask is the same as that for the LAN interface and IEEE 802.11b interface.
- When installing the optional 1394 Interface Unit, set the subnet so that it does not overlap with the LAN interface or the IEEE 1394 interface.

Access Control

Use the access command to view and configure access control. You can also specify two or more access ranges.

Reference

msh> access

Configuration

msh> access $\stackrel{_{\scriptstyle \wedge}}{\scriptstyle \sim}$ range start-address end-address

• ☆ represents a target number between 1 and 5. (Up to five access ranges can be registered and selected.)

Example: To specify accessible IP addresses between 192.168.0.10 and 192.168.0.20:

msh> access 1 range 192.168.0.10 192.168.0.20



🔗 Note

- □ The access range restricts the workstations from which printing is possible by means of an address. If you do not need to restrict printing, make the setting "0.0.0.0".
- □ The entry is invalid if the start address is greater than the end address.
- □ Up to five access ranges can be specified. The entry is invalid if the target number is omitted.
- When using a Web browser, telnet or SmartNetMonitor for Client/Admin, you can use an IP address that has not been restricted by access control.

Access Control Initialization

msh> access flush

🔗 Note

□ This restores the factory-default settings so that all access ranges become "0.0.0.0".

DHCP

Use the set command to configure the boot method.

msh> set parameter {on|off}

"on" means active and "off" means inactive.

Parameter	Meaning	
dhcp	DHCP (Dynamic Host Configuration Pro-	
	tocol)	

🔗 Note

- The default is "on".
- □ When you use DHCP, the server also needs to be configured.
- DHCP takes precedence over all other settings.

Protocol

Use the set command to allow/prevent remote access for each protocol.

```
msh> set protocol {up | down}
```

Protocol	
appletalk	"up" means active and "down" means inac-
tcpip	tive.
netware	
netbeui	
scsiprint *1	
ip1394 *1	
lpr	
ftp	
rsh	
diprint	
web	
snmp	
ipp	

^{*1} Available when the optional 1394 Interface Unit is installed.

🔗 Note

- □ If you prohibit remote access using TCP/IP and then log out, you cannot use remote access. If this was a mistake, you can use the control panel to allow access by TCP/IP.
- □ When you prevent access via TCP/IP, you are also prevented from using ip1394, lpr, ftp, rsh, diprint, web, snmp and ipp.

Printer status

The following commands can be used to get information about the current status of the printer.

msh> command

Command	Information that is displayed
status	Status of printer.
	Information about the print jobs.
info	Information about the paper tray, output tray, and printer language.
prnlog [ID]	Lists the last 16 print jobs.

🔗 Note

More information about any print job is displayed when the ID number is added after the prnlog command.

🔑 Reference

For more information about the meaning of the data returned with these commands, see p.212 "Understanding the Displayed Information".

Network Interface Board configuration settings information

Use the show command to display the Network Interface Board configuration settings.

```
msh> show [-p]
```

🔗 Note

 \square Add "-p" to the show command to have information displayed on screen at one time.



🔑 Reference

For more information about the meaning of the data returned with this command, see p.214 "Configuring the Network Interface Board".

System log information

Use the syslog command to display information stored in the printer's system log.

msh> syslog

🔑 Reference

For more information about the displayed information, see p.219 "System Log Information".

SNMP

Use the snmp command to display and edit SNMP configuration settings such as the community name.

🔗 Note

- □ You can configure from ten SNMP access settings numbered 1–10.
- □ Default access settings 1 and 2 are as follows:

Number	1	2
Community name	public	admin
IP address	0.0.0.0	0.0.0.0
Access type	read-only trap off	read-write trap off



Display

Shows the SNMP information and available protocols.

```
msh> snmp ?
msh> snmp [-p] [registered_number]
```

🔗 Note

□ If the -p option is added, you can view the settings one by one.

Omitting the number displays all access settings.

Community name configuration

You can set the community name of the Network Interface Board.

msh> snmp number name community_name

🔗 Note

□ The community name must be within 15 characters.

Access type configuration

You can select the access type from those listed below.

```
msh> snmp number type access_type
```

Access type	Type of access which is permitted
read	Read only
write	Read and write
trap	User is notified of trap messages.
no	All access is denied.





Protocol configuration

You should use the following command to set the protocols to active or inactive. If you set a protocol to inactive, all access settings set to use that protocol are disabled.

```
msh> snmp {ip | ipx} {on | off}
```

```
• "on" means active and "off" means inactive
```

To change the protocol of access settings, use the following command. However, if you disabled a protocol with the above command, making it active here will have no effect.

```
msh> snmp number active {ip | ipx} {on | off}
```

Access configuration

You can configure an address of a host depending on the protocols used.

The Network Interface Board accepts requests only from hosts having addresses with access types of "read-only" or "read-write". Type "0" to have Network Interface Board accept requests from any host without requiring a specific type of access.

Command syntax:

```
msh> snmp number {ip | ipx} address
```

🔗 Note

□ To specify the TCP/IP protocol, type ip followed by a space, and then the IP address.

□ To specify the IPX/SPX protocol, type ipx followed by a space and then the IPX address followed by a decimal and then the MAC address of the Network Interface Board.

The following is an example of how to configure registration number 3 with the IP address 192.168.15.16.

msh> snmp 3 ip 192.168.15.16

The following is an example of how to configure registration number 3 with the IPX address 7390A448, and the MAC address 00:00:74:62:5C:65.

msh> snmp 3 ipx 7390A448:000074625C65 Download from Www.Somanuals.com. All Manuals Search And Download.



IPP

Use the ipp command to configure the IPP settings.

Viewing setting

The following command displays the current IPP settings.

msh> ipp Example output:

timeout=900(sec)

auth basic

- The "timeout" setting specifies how many seconds the computer keeps trying to access the network printer to send print jobs when no connection could be made.
- The "auth" setting indicates the user authorization mode.

IPP timeout configuration

Specifies how many seconds to wait before canceling a print job if it has been interrupted for some reason. The range of time can be changed between 30 to 65535 seconds.

```
msh> ipp timeout {30 -65535}
```

IPP user authorization configuration

Use the IPP user authorization to restrict users to print with IPP. The factory default is "off" .

msh> ipp auth {basic|digest|off}

- The setting of user authorization are "basic" and "digest".
- Use "off" to remove a user's authorization.

🔗 Note

□ If you select "basic" or "digest", see next section "Configuring IPP user authorization" for more information about how to configure the user name. Download from Www.Somanuals.com. All Manuals Search And Download.



Configuring IPP user authorization

Use the following command:

msh> ipp user The following message appears.

msh> Input user number (1 to 10): Type the number, user name and password.

msh> IPP user name:user1 msh> IPP password:***** After configuring the settings, the following message appears.

User configuration changed.

SPRINT

To make setting for IEEE 1394 (SCSI print), use the sprint command.

View settings

The IEEE 1394 (SCSI print) settings are displayed.

msh> sprint

Bidirectional configuration for the IEEE 1394 (SCSI print)

Use this setting to configure whether the IEEE 1394 (SCSI print) is bidirectional. The factory default is "on".

```
msh> sprint bidi [on/off]
```



Direct Printing Port

The direct printing port allows printing directly from a computer, connected to the network, to the printer. Use the diprint command to change the direct printing port settings.

View settings

The following command displays the current direct printing port settings.

msh> diprint Example output:

```
port 9100
timeout=300(sec)
bidirect off
```

- The "Port" specifies the port number of the direct printing port.
- The "bidirect" setting indicates whether the direct printing port is bidirectional.

Setting timeout

You can specify the timeout interval to use when receiving data from the network.

msh> diprint [0~65535]

🔗 Note

- □ The factory default is 300 seconds.
- \Box If 0 is set, timeout is disabled.

Bidirectional configuration for the direct printing port

Use this setting to configure whether the direct printing port is bidirectional. The factory default is "off".

msh> diprint bidirect {on|off}

SMB

Use the smb command to configure or delete the computer name or workgroup name for NetBEUI.

msh >smb parameter

Parameter	Settings
smb comp	Your computer name consisting of up to 13 characters
smb group	Workgroup name consisting of up to 15 characters
smb comment	Comment consisting of up to 31 characters
smb clear comp	Clears complete name
smb clear group	Clears Workgroup name
smb clear comment	Clears comment

ROUTE

Use the route command to control the routing table.

This command allows you to configure and display routing information. You can change the network configuration from a remote computer using this command.

🔗 Note

□ The maximum number of routing tables are 16.

Parameter	Topics of setting
route add {host net} destination gateway	Adds a host/network route to "destination", and a gateway address to "gateway" in the table. Host becomes the default setting.



1	98

Parameter	Topics of setting
route delete {host net} destina- tion	Deletes a host/network route from the table. Host becomes the default setting.
route get {destination}	Displays only route information corresponding to a specified destination. When the destination is unspecified, all routing information is displayed.
route active {host net} destina- tion *1 on/off	You can turn the specified destination on or off. Host becomes the default set- ting.
route add default gateway *1	You can set the default gateway address.
route flush	Deletes all routing information.

^{*1} IP address

SLP

Use this command to configure SLP settings.

You can search the NetWare server using SLP in the PureIP environment of NetWare 5. Using the slp command, you can configure the value of TTL which can be used by SLP multi-cast-packet.

🔗 Note

- □ The default value of TTL is "1". A search is executed only within a local segment. If the router does not support multi-cast, the settings are not available even if the TTL value is increased.
- \square The acceptable TTL value is 1 255.

```
msh> slp ttl {1 -255}
```



Setting IEEE 802.11b

To make setting for IEEE 802.11b, use the wiconfig command.

Limitation

□ You can make settings when installing the optional 802.11b Interface Unit.

View settings

The following command displays the current IEEE 802.11b settings.

msh> wiconfig

The IEEE 802.11b card information is displayed.

msh> wiconfig cardinfo

🔗 Note

□ If the IEEE 802.11b interface is not working correctly, the IEEE 802.11b card information is not displayed.

Configuration

msh> wiconfig parameter

Parameter	Value to be configured
mode [ap adhoc 802.11adhoc]	You can set infrastructure mode (ap), 802.11 ad hoc mode(802.11adhoc) or ad hoc mode (adhoc). The default is ad hoc mode.



Operating Instructions Administrator Reference

Parameter	Value to be configured
ssid ID value	You can set for SSID in infrastructure mode.
	The characters that can be used are ASCII $0x20-0x7e$ (32 bytes).
	A SSID value is set automatically to the nearest access point if the setting has not been made.
	If the setting has not been made for ad hoc mode, the same value as for infrastructure mode or an "ASSID" value is set automatically if the setting has not been made.
channel frequency channel no.	You can set the channel.
	You can specify from following channel.
	• Metric Version :1-13
	• Inch Version :1-11
	Set the same channel for all the machines you are using.
enc [on off]	You can enable or disable the WEP function. To enable the WEP function, specify [on]; to disable it, specify [off].
	To start the WEP function, enter the correct WEP key.
key [key value]	With a 64-bit WEP, you can use 10 digit hexadecimal. With a 128-bit WEP, you can use 26 digit hexadecimal.
	To use this function, set the same WEP key for all the ports that transmit to each other.



Operating Instructions Administrator Reference

Parameter	Value to be configured
auth [open shared]	You can set the authorized mode when using WEP. The specified value and the authorized mode are as follows:
	open: Open system authorized (default)
	shared: Shared key authorized
rate [auto 11m 5.5m 2m 1m]	You can set the IEEE 802.11b transmitting speed.
	The transmitting speed you specify here is the speed at which data is sent. You can receive data at any speed.
	auto: automatically set (default)
	11m: 11 Mbps fixed
	5.5m: 5.5 Mbps fixed
	2m: 2 Mbps fixed
	1m: 1 Mbps fixed

WINS

Use the wins command to configure the WINS server settings

For more information about WINS server settings, see p.233 "Configuring a WINS Server".

Configuration

Use the set command to make WINS active or inactive.

msh> set wins {on|off}

• "on" means active and "off" means inactive.



Viewing setting

The following command displays the WINS server IP address.

```
msh> wins
```

Example out put:

```
wins: primary server 0.0.0.0 secondary server 0.0.0.0
```

🔗 Note

- □ If DHCP is used to start from the network, the current WINS server address is displayed. This address, however, is not displayed if DHCP is not used.
- □ If the IP address obtained from DHCP differs from the WINS IP address, the DHCP address is the valid address.

Address configuration

Use this command to configure a WINS server IP address.

```
msh> wins {primary|secondary} IP_address
```

🔗 Note

□ Use the "primary" to configure a primary WINS server IP address.

□ Use the "secondary" to configure a secondary WINS server IP address.

AutoNet

Use the set command to configure Autonet.

🔗 Note

□ For more information about Autonet, see p.232 "Using AutoNet".

msh>set autonet {on|off}

Select "on" to activate Autonet, and "off" to deactivate it.



Changing the Host Name

Use the hostname command to change the printer name.

msh> hostname [interface_name] printer_name

interface name	Interface to be configured
ether	Ethernet interface *1
wlan *2	IEEE 802.11b interface
ip1394 *3	IEEE 1394 interface

- ^{*1} If you did not enter the interface name, it will be automatically set to the Ethernet interface.
- ^{*2} If you install the optional 802.11b Interface Unit, you can set the command.
- *3 If you install the optional 1394 Interface Unit, you can set the command.

🔗 Note

- □ Enter the printer name using up to 13 characters.
- □ You cannot use a printer name starting with RNP or rnp.
- □ The Ethernet interface and IEEE 802.11b interface will have the same printer name.

SNTP

The printer clock can be synchronized with a NTP server clock using the Simple Network Time Protocol (SNTP). To change the SNTP settings, use the sntp command.

Limitation

□ SNTP supports the NTP servers running xnptd V3 and V4.



Reference msh> sntp

NTP Server Address Configuration

You can specify the IP address of the NTP server. msh> sntp server IP_address

Interval Configuration

You can specify the interval at which the printer synchronizes with the operator-specified NTP server.

msh> sntp interval polling_time

🔗 Note

- □ The factory default setting is 3600 seconds.
- □ You can set the interval from 16 to 16384 seconds.
- □ If you set 0, the printer synchronizes with the NTP server only when you turn the printer on. After that, the printer does not synchronize with the NTP server.

Time-zone Configuration

You can specify the time difference between the printer clock and the NTP server clock.

msh> sntp timezone +/-hour_time Example: To set the time-zone difference to +8 hours:

msh> sntp timezone +08:00

🔗 Note

□ The time is in 24-hour notation.



Changing the Password

Use the passwd command to change the remote maintenance password.

Important

□ Be sure not to forget or lose the password.

🔗 Note

□ The default factory password is "password".

1 Type "passwd".

msh> passwd

2 Type the current password.

Old password:

3 Type the new password.

New password:

🔗 Note

- □ The password must consist of 3 to 8 alphanumeric characters and symbols. Upper and lower case characters are considered unique. For example, R is different from r.
- The password is the same as that used in the configuration of the Network Interface Board using a Web browse and that used in the NIB Setup Tool. If you change a password from telnet, other passwords are also changed.

4 Type the new password once again.

```
Retype new password:
```



Getting Printer Information over the Network

Printer current status

You can check the printer's status using the telnet command.

✤ telnet

Use the status command.

Messages	Description
Add Toner: Cyan	The toner cartridge is empty.
Add Toner: Magenta	The toner cartridge is empty.
Add Toner: Yellow	The toner cartridge is empty.
Calibrating	The printer is calibrating or the photoconductor unit is being supplied.
Color Regist Error	The color registration error has occurred.
Energy Save Mode	The printer is in Energy Saver Mode.
Hardware Problem Black PCU	The photoconductor unit is not set correctly.
Hardware Problem Bypass Tray	An error has occurred in the Bypass Tray.
Hardware Problem Color PCU	The photoconductor unit is not set correctly.
Hardware Problem DIMM	An error has occurred in the DIMM.
Hardware Problem Ethernet	An error has occurred in the Ethernet interface.
Hardware Problem HDD	An error has occurred in the optional Printer Hard Disk.
Hardware Problem IEEE1394	An error has occurred in the IEEE 1394 interface.
Hardware Problem NV-RAM	An error has occurred in the optional Account Enhance Unit.



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Messages	Description
Hardware Problem Option RAM	An error has occurred in the optional Memory Unit.
Hardware Problem Parallel I/F	An error has occurred in the parallel interface.
Hardware Problem USB	An error has occurred in the USB interface.
Hardware Problem Wireless Board	An error has occurred in the IEEE 802.11b (Wireless LAN) interface.
Hardware Problem Wireless Card	An error has occurred in the IEEE 802.11b (Wireless LAN) card.
Hex Dump Mode	The printer is in Hex Dump Mode.
Offline	The printer is offline and cannot print data.
Please Wait	The printer is initializing the development unit.
	The printer is initializing HDD.
Processing	Print data is being processed.
Ready	Printing is available.
Replace Black PCU	It is time to replace the photoconductor unit.
Replace Color PCU	It is time to replace the photoconductor unit.
Replace Fusing Unit	It is time to replace the fusing unit.
Resetting Job	Job is being reset.
Toner is Almost Empty: Black	The toner cartridge is almost empty.
Toner is Almost Empty: Cyan	The toner cartridge is almost empty.
Toner is Almost Empty: Magenta	The toner cartridge is almost empty.
Toner is Almost Empty: Yellow	The toner cartridge is almost empty.
Waiting	The printer is waiting for the next data to print.



Messages	Description
Warming Up	The printer is warming up.
Waste Toner is Almost Full	The waste toner is full.

Printer configuration

You can check the printer configuration using telnet.

♦ telnet

Use the info command.

🔗 Note

□ "*" (asterisk) is displayed with the current setting.

 \Box Regarding *1 - *5, see the following table.

Item	Description
Input Tray	
No.	ID number of the paper tray
Name	Name of the paper tray ^{*1}
PaperSize	Paper size loaded in the paper tray ^{*2}
Status	Current status of the paper tray ^{*3}
Output Tray	
No.	ID number of the output tray
Name	Name of the output tray ^{*4}
Status	Current status of the output tray ^{*5}

Item	Description
Printer Language	
No.	ID number of the printer language used by the printer
Name	Name of the printer language used in the printer
Version	Version of the printer language

◆ *1 Input Tray: Name

Name	Description
Tray X	Name of installed paper tray. (X is the number of tray.)
Bypass Tray	Bypass Tray

♦ *2 Input Tray: PaperSize

Paper Size	Description
A4 (210 × 297 mm)	A4 (210 × 297) 🔽
B5JIS (182 × 257 mm)	B5 (182 × 257)
A5 (148 × 210 mm)	A5 (148 × 210) 🔽
A6 (105 × 148 mm)	A6 (105 × 148) 🔽
8 1/2 × 14	LG (8 $^{1}/_{2} \times 14)$
8 1/2 × 11	LT (8 $^{1}/_{2} \times 11)$
5 1/2 × 8 1/2	$5^{1}/_{2} \times 8^{1}/_{2}$
Custom(XXXxYYY mm)	Custom Size
7 1/4 × 10 1/2	$7^{1}/_{4} \times 10^{1}/_{2}$



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Paper Size	Description
8 1/4 × 13	8 ¹ / ₄ × 13 □
8 1/2 × 13	8 ¹ / ₂ × 13 □
4 1/8 × 9 1/2	$4^{1}/_{8} \times 9^{1}/_{2}$
3 7/8 × 7 1/2	3 ⁷ / ₈ × 7 ¹ / ₂
DL (110 × 220 mm)	DL (110×220)
C5 Env (162 × 229 mm)	C5 Env (162 \times 229) \square
8×13	8×13 🔽
C6 Env (114 × 162 mm)	C6 Env (114 \times 162) \square
8K (267 × 390 mm)	8K (267 × 390)
16K (195 × 267 mm)	16K (195 × 267) ↓
NCS	There is no tray.
**	The paper size is not selected.

♦ *3 Input Tray: Status

Status	Description
Normal	—
NoTray	There is no paper tray
PaperEnd	There is no paper in the paper tray



♦ *4 Output Tray: Name

Name	Description
Standard Tray	Output Tray

✤ *5 Output Tray: Status

Status	Description
Normal	
PaperExist	There is paper in the output tray
OverFlow	Output tray is full of paper
Error	Other errors





Understanding the Displayed Information

This section describes how to read the status information returned by the Network Interface Board.

Print Job Information

The status of the print job can be viewed using the following commands.

- Meaning Item name Rank Print job status. Active Printing or preparing for printing. Waiting Waiting to be transferred to the printer. Owner Print request user name. Print request number. Job The name of the document. Files Total Size The size of the data (spooled). The default is "0 bytes".
- telnet : Use the status command. See p.190 "Printer status".



Print Log Information

This is a record of the most recent 16 jobs that have been printed.

This log can be displayed with the following commands.

• telnet : Use the prnlog command. See p.190 "Printer status".

Name	Meaning
ID	Print request ID.
User	Print request user name.
Page	The number of pages that is printed.
Result	The result of the print request.
Time	The time when the print request was received
User ID ^{*1}	User ID that is to be configured in the printer driver.
JobName *1	The name of the document for printing.

^{*1} Appears the UserID and JobName information when entering the info command with the ID.



Configuring the Network Interface Board

The Network Interface Board settings can be displayed by using the commands below.

• telnet : Use the show command. See p.190 "Network Interface Board configuration settings information".

Item name	Meaning
Common	
Mode	
Protocol Up/Down	Up means active, Down means inactive.
AppleTalk	
TCP/IP	
NetWare	
NetBEUI	
IP over 1394 *1 *4	
SCSI print *4	
Ethernet interface	
Syslog priority	Internal version number.
NVRAM version	
Device name	
Comment	
Location	
Contact	
Soft switch	



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Item name	Meaning
AppleTalk	
Mode	AppleTalk protocol in selection.
Net	Network number.
Object	Macintosh printer name.
Туре	The type of printer.
Zone	Name of the zone that the printer belongs to.
TCP/IP	
Mode	Up means active, Down means inactive.
ftp	
lpr	
rsh	
diprint	
web	
telnet	
snmp	
ipp	
EncapType	Frame type.
dhcp	Dynamic Host Configuration Protocol (on/off)
Address	IP address.
Netmask	Subnet mask.
Broadcast	Broadcast address.
Gateway	Default gateway address.
Access Range[☆] ^{*2}	Access Control Range.



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Item name	Meaning
Primary WINS	Primary WINS server address.
Secondary WINS	Secondary WINS server address.
Time server	NTP server address
Time Zone	NTP server time difference
Time server polling time	Synchronizes interval
Home page URL	URL of homepage.
Home page link name	URL name of homepage.
Help page URL	URL of help page.
SNMP protocol	Protocol used with SNMP.
NetWare	
EncapType	Frame type.
RPRINTER number	Remote printer number.
Print server name	Print server name.
File server name	Name of the connect file server.
Context name	Context of print server.
Switch	
Mode	Active mode.
NDS/Bindery	(this value is fixed)
Packet negotiation	
Print job timeout	Time of the job timeout.



Item name	Meaning
NetBEUI	
Switch	
Mode	(this value is fixed)
Direct print	(this value is fixed)
Notification	Notification of print job completion.
Workgroup name	Name of the workgroup.
Computer name	Name of the computer.
Comment	Comment.
Share name[1]	Share name (name of the printer type).
IEEE 802.11b *3	
SSID	SSID being used.
Channel range	Channels available for use.
Channel	Channel being used.
Communication mode	IEEE 802.11b interface transmitting mode.
Rate	IEEE 802.11b interface speed.
WEP encryption	Whether WEP is enabled or disabled.
Auth	Validity or invalidity of the authorized mode setting when using WEP.
Encryption key	WEP key.





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Item name	Meaning
IP over 1394 *1 *4	
Device name	
Address	IP address.
Netmask	Subnet mask.
Broadcast	Broadcast address.
SCSI print ^{*4}	
Bidi.	Bidirectional setting (on/off).
Shell mode	Mode of the remote maintenance tool.

^{*1} The optional 1394 Interface Unit supports TCP/IP only.

*2 \approx represents a target number between 1 and 5.

*³ You can display the item names when installing the optional the optional 802.11b Interface Unit.

^{*4} You can display the item names when installing the optional 1394 Interface Unit.



Message List

This is a list of messages written in the printer's system log. The system log can be viewed using the syslog command.

System Log Information

You can use the following methods to view the system log.

• telnet : Use the syslog command. See p.184 "Commands List" .

Message	Description and Solutions
Access to NetWare server <file name="" server=""> denied. Ei- ther there is no account for this print server on the Net- Ware server or the password was incorrect.</file>	(In print server mode) Cannot log in to the file server. Make sure that the print server is registered on the file server. If a password is specified for the print server, de- lete it.
add_sess: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
add_sess: session <community name="">already defined.</community>	A requested community name is not defined.
add_sess: bad trap addr: <ipaddress>, community: <community name=""></community></ipaddress>	The IP address (0.0.0.0.) is unavailable when the commu- nity access type is TRAP. Specify the host IP address for the TRAP destination.
add_sess_ipx: bad trap addr: <ipx address="">, community: <community name=""></community></ipx>	The IPX address (00:00:00:00:00:00) is unavailable when the community access type is TRAP. Specify the host IPX address for the TRAP destination.
add_sess_ipx: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.



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Message	Description and Solutions		
add_sess_ipx: session_ipx <community name=""> not defined.</community>	A requested community name is not defined.		
ANONYMOUS FTP LOGIN FROM <ip address="">, <password></password></ip>	An anonymous login has been made with a password <password> from the host <ip address="">.</ip></password>		
anpd start. (AppleTalk)	An anpd (AppleTalk Network Package Daemon) has started.		
Attach FileServer = <file name="" server=""></file>	Attached to the file server as a nearest server.		
Attach to print queue <print name="" queue=""></print>	(In print server mode) Attached to the print queue name.		
Cannot create service connection	(In remote printer mode) Cannot establish a connection with the file server. The number of file server users may exceed the maximum number that the file server can han- dle.		
Cannot find rprinter (<print name="" server="">/<printer number="">)</printer></print>	The printer having the number displayed on the print server does not exist. Make sure that the number of the printer is registered in the print server.		
Change IP address from DHCP Server.	The IP address changes when DHCP LEASE is renewed. To always assign the same IP address, set a static IP ad- dress to the DHCP server.		
child process exec error! (process name)	Failed to start the network service. Turn the printer off and then on. If this does not work, contact your service or sales representatives.		
Connected DHCP Server(<dhcp address="" server="">).</dhcp>	The IP address was successfully received from the DHCP server.		
connection from <ip address=""></ip>	Logged on from the host <ip address="">.</ip>		



Message	Description and Solutions		
Could not attach to FileServer <error number=""></error>	(In remote printer mode) Cannot attach to the file server. For some reason, the file server refuses the connection. Check the file server configuration.		
Could not attach to PServer <print server=""></print>	(In remote printer mode) Cannot attach to the print server. For some reason, the print server refuses the connection. Check the print server configuration.		
Current Interface Speed:xxxMbps	The speed of the network (10 Mbps or 100 Mbps).		
Current IP address <current address="" ip=""></current>	The IP address <current address="" ip=""> was received from the DHCP server.</current>		
Current IPX address <ipx address=""></ipx>	The current IPX address.		
DHCP lease time expired.	DHCP lease time has expired. The printer tries to discov- er the DHCP server again. The IP address used up to now becomes invalid.		
DHCP server not found.	The DHCP server cannot be found. Make sure the DHCP server is running on the network.		
dhcpcd start.	A dhcpcd (DHCP client service) has started.		
Duplicate IP= <ip address="">(from <mac address="">).</mac></ip>	The same IP address is used. An IP address must be unique. Check the address of the device indicated in <mac address="">.</mac>		
Established SPX Connection with PServer, (RPSocket= <socket number="">, connID= <connection id="">)</connection></socket>	(In remote printer mode) A connection with the print server has been established.		
exiting	lpd service has ended and the system is exiting the proc- ess.		



Message	Description and Solutions	
Exit pserver	(In print server mode) Exits the print server because the necessary print server settings have not been made.	
Frametype = <frame name="" type=""/>	The <frame name="" type=""/> is configured to be used on Net Ware.	
httpd start.	An httpd has started.	
IEEE 802.11b Card Firmware REV.IEEE 802.11b Card Firmware REV.	This is the wireless LAN card's firmware version.	
IEEE 802.11b current channel <channel></channel>	The current channel is displayed.	
	The value chosen by the user is displayed in ad hoc mode.	
	The channel used in the access point is displayed in infra- structure mode.	
	(Example: Current channel is 11.)	
	IEEE 802.11b current channel 11	
IEEE 802.11b MAC Address = <mac address=""></mac>	The IEEE 802.11b I/F MAC address is displayed.	
	(Example: Current MAC address is 00:00:74:XX:XX:XX.)	
	IEEE 802.11b MAC Address =	
	00:00:74:XX:XX:XX	
IEEE 802.11b SSID <ssid> (AP MAC Address < MAC Address>)</ssid>	The SSID of the access point used in infrastructure mode and the MAC address of the access point are displayed.	
	(Example: Current MAC address is xx:xx:xx:xx:xx: and SSID value is "test-ssid".)	
	IEEE 802.11b SSID test-ssid (AP MAC Address	
	xx:xx:xx:xx:xx)	



Message	Description and Solutions		
IEEE 802.11b <transmission mode=""> mode</transmission>	This is the IEEE 802.11b transmission mode.		
	• IEEE 802.11b [infrastructure] mode : in infrastructure mode		
	• IEEE 802.11b [802.11 ad hoc] mode : in 802.11 adhoc mode		
	• IEEE 802.11b [ad hoc] mode : in adhoc mode		
IEEE 802.11b Tx Rate <transfer speed=""></transfer>	The IEEE 802.11b transmitting speed (set speed) is displayed.		
	(Example: Current Tx Rate is 11Mbps.)		
	IEEE 802.11b Tx Rate 11Mbps		
inetd start.	An inetd has started.		
<interface> started with IP: <ip address=""></ip></interface>	<ip address=""> has been set for <interface> and <inter- face> started.</inter- </interface></ip>		
<interface>: Subnet overlap.</interface>	Subnet from Netmask and the IP address you tried to set for <interface> overlap the subnet for another interface.</interface>		
	Set Subnet so that it does not overlap with another inter- face.		
IPP cancel-job: permission denied.	The printer could not authenticate the name of the user at- tempting to cancel a job.		
ipp disable.	Printing with ipp is disabled.		
ipp enable.	Printing with ipp is enabled.		
IPP job canceled. jobid=%d.	The spooled job has been canceled due to an error or by user request.		



Message	Description and Solutions		
job canceled. jobid=%d.	The spooled job has been canceled due to an error or by user request.		
LeaseTime= <lease time="">(sec), RenewTime=<renew time=""> (sec).</renew></lease>	The resource lease time that was received from the DHCP server is <lease time=""> in seconds. The renewal time is also <renew time=""> in seconds.</renew></lease>		
Login to fileserver <file name="" server=""> (<ipx ip>,<nds bindery>)</nds bindery></ipx ip></file>	(In print server mode) Logged in to the file server with NDS or BINDERY mode.		
multid start.	Data transmission service for multiprotocols has started.		
nbstart start. (NetBEUI)	The service for NetBEUI protocol stack setting has started.		
NBT Registration Broadcast(<netbios name="">)</netbios>	Use a local broadcast to map <netbios name=""> with the IP address.</netbios>		
nbtd start.	A nbtd (NetBIOS over TCP/IP Daemon) has started. (Available only in DHCP mode)		
NetBEUI Computer Name = <computer name=""></computer>	The NetBEUI Computer Name is defined as <computer name="">.</computer>		
nmsd start. (NetBEUI)	A nmsd (Name Server Daemon) has started.		
npriter start. (NetWare)	(In remote printer mode) NetWare service has started.		
nwstart start. (NetWare)	The service for NetWare protocol stack setting has started.		
Open log file <file name=""></file>	(In print server mode) The specified log file has been opened.		
papd start. (AppleTalk)	AppleTalk print service has started.		



Message	Description and Solutions		
permission denied.	Job cancellation was determined to be unauthorized after checking the user name and host address (except for ROOT authorization).		
phy release file open failed.	Replacing the Network Interface Board is required. Con- tact your sales or service representatives.		
Print queue <print name="" queue=""> cannot be serviced by printer 0, <print name="" server=""></print></print>	(In print server mode) The print queue name cannot be serviced. Make sure that print queue volume exists on the specified file server.		
Print server <print name="" server=""> has no printer.</print>	(In print server mode) The printer object is not assigned to the print server <print name="" server="">. Using NWadmin, assign the printer object, and then restart the printer de- vice.</print>		
Print session full	Cannot accept the print session.		
Printer <printer name=""> has no queue</printer>	(In print server mode) The print queue is not assigned to the printer. Using NWadmin, assign the print queue to the printer, and then restart it.		
pserver start. (NetWare)	(In print server mode) NetWare service has started.		
Required computer name (<computer name="">) is duplicated name</computer>	The same computer name is detected on the network. The start job determines the computer name by adding the computer name to the suffix $(0,1)$. Configure a new computer name that is unique.		
Required file server (<file name="" server="">) not found</file>	Cannot find the required file server.		
restarted.	LPD has started.		



Message	Description and Solutions		
sap enable, saptype= <sap type="">, sapname=<sap name=""></sap></sap>	The SAP function has started. The SAP (SAP type and SAP name) packet is issued to advertise the service on the SAP table on the NetWare server.		
Set context to <nds context="" name=""></nds>	A <nds context="" name=""> has been set.</nds>		
shutdown signal received. network service rebooting	Rebooting the network service.		
smbd start. (NetBEUI)	An smbd (SMB (Server Message Block) service) has started.		
Snmp over ip is ready.	Communication over TCP/IP with SNMP is available.		
Snmp over IP over 1394 is ready.	Communication over IP over 1394 with SNMP is available.		
Snmp over ipx is ready.	Communication over IPX with SNMP is available.		
snmpd start.	SNMP service has started.		
started.	Direct print service has started.		
The print server received error <error number=""> during at- tempt to log in to the network.Access to the network was denied.Verify that the print server name and password are correct.</error>	Cannot log in to the file server. The print server is not reg- istered or the password is specified. Register the print server without specifying a password.		
win2kspd protocol-DOWN (APPEXIT).	NVRAM setting ioctl (SPIO CAPPEXIT) of device SBP2TSP was set by protocol-DOWN. SCSI print is not receiving data.		
win2kspd protocol-UP (APPENTRY).	NVRAM setting ioctl (SPIO CAPPENTRY) of device SBP2TSP was set by protocol-UP. SCSI print is not receiving data.		
win2kspd started.	SCSI print (SBP-2) service has started.		



Message	Description and SolutionsThere has been no response to the update request from the server. Confirm that the WINS server address is correct and the WINS server is working properly.		
WINS name refresh :Server No Response			
WINS name registration/refresh error code(errornumber)	Set Net BIOS names those do not overlap with each other.		
	Confirm that the WINS server address is correct and the WINS server is working properly.		
WINS name registration:Server No Response	There has been no response to the registration request from the server. Confirm that the WINS server address is correct and the WINS server is working properly.		
WINS server address0.0.0.0	The WINS server address has not been specified. Specify the WINS server address to match the printer name with WINS.		
WINS Server= <wins address="" server=""> NetBIOS Name=<netbios name=""></netbios></wins>	The printer name has been successfully registered in <wins address="" server="">.</wins>		
WINS wrong scopeID	The scope ID is wrong.		
	Specify the correct scope ID.		
write error occurred. (diskfull)	The hard disk became full while the spool file was being written.		
	Wait until enough HDD space becomes available as printing proceeds.		
write error occurred. (fatal)	A fatal error occurred while the spool file was being writ- ten.		
	Turn the printer off and then on. If this does not work, contact your service or sales representative.		



Precautions

Please pay attention to the following when using the Network Interface Board. When configuration is necessary, follow the appropriate procedures below.

Connecting a Dial Up Router to a Network

When the NetWare file server and the printer are on the opposite side of a router, packets are continuously sent back and forth, possibly causing communication charges to increase. Because the packet transmission is a specification of NetWare, you need to change the configuration of the router. If the network you are using does not allow you to configure the router, configure the printer.

Configuring the router

Filter the packets so that they do not pass over the dial-up router.

🔗 Note

- The MAC address of the printer doing the filtering is printed on the printer configuration page. For more information about printing a configuration page, see the Option Setup Guide that comes with the printer.
- □ For more information about configuring the printer if the router cannot be configured, see the instructions below.



Configuring the printer with NetWare

1 Follow the setup method in this manual, configure the file server.

2 Set the Frame type for a NetWare environment.

^PReference

For more information about selecting a Frame type, see p.71 "Configuring the NetWare Protocol using the Control Panel".

Configuring the printer without NetWare

1 While not printing, the Network Interface Board sends packets on the network. Set the Net-Ware to inactive.

🔑 Reference

For more information about selecting a protocol, see p.71 "Configuring the NetWare Protocol using the Control Panel".





PostScript Printing from Windows

When printing PostScript from Windows, see the PostScript 3 Supplement.

NetWare Printing

Form Feed

You should not configure the form feed on NetWare. The form feed is controlled by the printer driver on Windows. If the NetWare form feed is configured, the printer might not print properly. If you want to change the form feed setting, always configure it on Windows.

- With Windows 95/98/Me, clear the **[Form feed]** check box under the **[Printer Settings]** tab in the Printer Properties dialog box.
- With Windows 2000, clear the **[Form feed]** check box under the **[NetWare Settings]** tab in the Printer Properties dialog box.
- With Windows NT 4.0, clear the **[Form feed]** check box under the **[NetWare Settings]** tab in the Printer Properties dialog box.

Banner Page

You should not configure a banner page on NetWare. If you want to change the banner page setting, always configure it on Windows.

• With Windows 95/98/Me, clear the **[Enable banner]** check box under the **[Printer Settings]** tab in the Printer Properties dialog box.



- With Windows 2000, clear the **[Enable banner]** check box under the **[NetWare Settings]** tab in the Printer Properties dialog box.
- With Windows NT 4.0, clear the **[Enable banner]** check box under the **[NetWare Settings]** tab in the Printer Properties dialog box.

Printing after resetting the printer

After resetting the remote printer, it will be cut off from the print server for about 30-40 seconds before connecting again. Due to the NetWare specification, print jobs may be accepted, but they will not be printed during this interval.

When using the printer as a remote printer, wait about 2 minutes after resetting the printer before attempting to print.

Using DHCP

You can use the printer under a DHCP environment. You can also register the printer NetBIOS name on a WINS server when it is running.

Limitation

- DHCP cannot be used with IEEE 1394 (IP over 1394). Set a fixed IP address with the control panel, telnet or a Web browser.
 - See the Setup Guide.
 - See p.185 "TCP/IP address".
 - See p.103 "Configuring the Network Interface Board Settings".



🔗 Note

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server. See p.201 "WINS".
- Supported DHCP server is Windows NT 4.0 Server Service Pack 4 or later, Windows 2000 Server and NetWare 5.
- □ If you do not use the WINS server, reserve the printer's IP address in the DHCP server so that the same IP address is assigned every time.
- DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via an ISDN line, it will result in expensive line charges. This is because your computer connects to the ISDN line whenever a packet is transferred from the printer.

Using AutoNet

If the printer IP address is not assigned by a DHCP server automatically, a temporary IP address starting with 169.254 which is not used on the network can be selected automatically by the printer.

Limitation

□ You must change the setting to "on" to use AutoNet. See p.202 "AutoNet".

🔗 Note

- □ The IP address assigned by the DHCP server is given priority to that selected by AutoNet.
- □ You can confirm the current IP address on the configuration page. For more information about the configuration page, see p.130 "Printing a Configuration Page".
- □ When AutoNet is running, the NetBIOS name is not registered on the WINS server.



Configuring a WINS Server

The printer can be configured to register its NetBIOS name with a WINS server when power is turned on. This enables the NetBIOS name of the printer to be specified from SmartNetMonitor for Admin even under a DHCP environment.

This section describes how to configure the WINS server.

🔗 Note

- □ The WINS Server is supported with Windows NT 4.0 Server Service Pack 4 or later, and Windows 2000 Servers WINS Manager.
- □ For more information about the WINS Server settings, see Windows Help.
- □ If there is no reply from the WINS Server, the NetBIOS name will be registered by broadcast.
- □ The NetBIOS name consists of up to 13 alphanumeric characters.

Using a Web browser

1 Start the Web browser.

2 Point your browser at the URL or IP address of the printer (e.g. http://XXX.XXX.XXX substituting the Xs with the IP address).

The status of the printer you chose appears on the Web browser.

3 Click Network Config.

The dialog box for entering the password and user name is displayed.

4 Enter your user name and password, and then click [OK].

To use the factory default account, enter no user name and type "password" for the password.



5 Click TCP/IP.

6 Set WINS to active and enter the IP address of the WINS server in Primary WINS Server and Secondary WINS Server.

2 Click Refresh.

8 Exit the Web browser.

Using telnet

1 Connect to the remote printer using telnet.

2 Use the set command to make WINS active.

msh> set wins on

3 Specify the IP addresses (primary and secondary) using the following commands.

msh> wins primary Ipaddress
msh> wins secondary Ipaddress

🔗 Note

 $\hfill\square$ To confirm the current configuration, use the show command.

4 Log out from telnet.



Memory Capacity and Paper Size

Print Quality Paper Size	Donor Sizo	Non-Duplex Printing		Duplex	Printing
	I aper Size	Can be printed	Guaranteed	Can be printed	Guaranteed
	A4				
600×600 dpi *1	В5	64 MD (S	Standard)	64 MB (S	Standard
000×000 dpi	LT	64 MB (Standard)		04 MB (,	standard)
	Legal				
1200×600 dpi *2	A4				
	В5	64 MB (9	Standard)	64 MB	128 MB (Stand-
	LT	64 MB (Standard)		(Standard)	ard + 64 MB)
	Legal				
1200×1200 dpi *3	A4				
	В5	64 MB	128 MB (Standard	128 MB (Standard	192 MB (Standard
	LT	(Standard)	+ 64 MB)	+ 64 MB)	+ 128 MB)
	Legal				

^{*1} To set resolution from each printer driver is as follows:

- RPCS: [600 x 600 dpi] on [Resolution]
- PCL 5c: [600 dpi] on [Resolution]
- PostScript 3: [600dpi] on [Resolution] and [Fast] on [Gradation]

🔑 Reference

For more information about how to set the printer driver, see printer driver's Help.



^{*2} To set resolution from each printer driver is as follows:

- RPCS: [1200 x 600 dpi] on [Resolution]
- PostScript 3: [600dpi] on [Resolution] and [Standard] on [Gradation]

🔑 Reference

For more information about how to set the printer driver, see printer driver's Help.

- ^{*3} To set resolution from each printer driver is as follows:
 - RPCS: [1200 x 1200dpi] on [Resolution]
 - PostScript 3: [1200dpi] on [Resolution] and [Standard] on [Gradation]

Reference

For more information about how to set the printer driver, see printer driver's Help.





Specifications

Mainframe

Configuration:

Desktop

Print Process:

Laser beam scanning & Electrophotographic printing Mono component toner development 4 drums tandem method

Printing Speed:

Monochrome: Maximum 20 pages per minute (A4 \Box), Maximum 21 pages per minute (11×8¹/₂ \Box) Color: Maximum 16 pages per minute (A4 \Box), Maximum 17 pages per minute (11×8¹/₂ \Box) First print Speed: Pre Heat On (Default): 15.5 sec, Pre Heat Off: 25 sec or less

♦ Interface:

- Network Standard Model Standard:
 - Parallel (Bidirectional IEEE1284)
 - Ethernet (10/100Base-TX)
 - USB (USB1.1, USB2.0^{*1})
 - ^{*1} It requires a USB computer port and cable that support USB 2.0.



Optional:

- IEEE 1394 (SCSI print, IP over 1394)
- IEEE 802.11b (Wireless LAN)
- BluetoothTM
- Basic

Standard:

- Parallel (Bidirectional IEEE1284)
- USB (USB1.1, USB2.0^{*1})

^{*1} It requires a USB computer port and cable that support Optional:

- Ethernet (10/100Base-TX)
- IEEE 1394 (SCSI print, IP over 1394)
- IEEE 802.11b (Wireless LAN)
- BluetoothTM

Resolution:

 1200×1200 dpi (RPCS, PostScript 3) 1200×600 dpi (RPCS, PostScript 3) 600×600 dpi (PCL 5c, RPCS, PostScript 3) 300×300 dpi (PCL 5c ^{*1}, RPCS) ^{*1} monochrome only

Printer Language:

PCL 5c, RPCS, Adobe PostScript Level 3



Fonts:

PCL 5c

Agfa Font 35 Manager Intellifonts, 10 TrueType fonts, and 1 Bitmap font Agfa Font Manager available, 31 fonts **PostScript 3** 136 fonts

Paper size:

See "Paper and Other Media" in the Maintenance Guide.

Paper Weight:

See "Paper and Other Media" in the Maintenance Guide.

Media Type:

See "Paper and Other Media" in the Maintenance Guide.

Power Source:

220 - 240 V, 50/60Hz

Power Consumption:

Printing	1300 W or less
Energy Saver	9 W or less

Noise Emission ^{*1}:

Sound Power Level

		Mainframe only
During Printing		63 dB (A)
Stand-by		40 dB (A)
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Sound Pressure level *2

	Mainframe only
Stand by	34 dB (A)
During Printing	45 dB (A)

^{*1} The preceding measurements made in accordance with ISO7779 are actual values.

*² Measured at the position of a bystander.

Dimensions:

	Width	Depth	Height
Printer only (tray not extended)	419 mm (16.5 inches)	536 mm (21.1 inches)	395 mm (15.5 inches)

✤ Weight:

Approximately 30 kg (66.1 lb) (toner cartridge and power cord included)

♦ Warm-up Time:

Less than 30 seconds (23°C, 73F) *1

^{*1} When no error.

Paper Input Capacity:

Standard Paper Tray	530 sheet tray *1
Bypass Tray	100 sheet *2
Optional Paper Feed Units	530 sheet paper tray $\times 2^{*1}$

^{*1} Paper weight: 80 g/m² (20 lb. bond)

^{*2} You can load up to 10 envelopes at the same time.



Paper Output Capacity:

Standard 250 sheets (80 g/m² (20 lb.bond))

♦ Memory:

Standard 64 MB, up to 384 MB (with the optional Memory Unit)

Network:

Protocol: TCP/IP, NetBEUI*1, IPX/SPX, AppleTalk *1 To use NetBEUI, use the SmartNetMonitor for Client port.

Options

PAPER FEED UNIT Type 3000

The Second Sec

 $410 \times 536 \times 146 \text{ mm} (16.1 \times 21.1 \times 5.8 \text{ inches})$

Paper size:

A4, B5(JIS), $8^{1/2} \times 14, 8^{1/2} \times 11$

Paper weight:

60 - 105 g/m², (16 - 28 lb. bond)

♦ Weight:

Less than 7.42 kg (16.3 lb)



AD440

The Dimensions (W \times D \times H):

 $355 \times 237 \times 69 \text{ mm} (12.8 \times 9.3 \times 2.7 \text{ inches})$

🔗 Note

□ This option is built into the machine.

Paper size:

A4, B5(JIS), 8 $^{1}/_{2} \times 14$, 8 $^{1}/_{2} \times 11$

Paper weight:

60 - 105 g/m² (16 - 28 lb. bond)

✤ Weight:

Less than 0.74 kg (1.6 lb. bond)

Printer Hard Disk Type 3000

Storage Capacity (Formatted): 10 GB

Specifications:

- Spool print data to collate
- Spool Sample/Locked Print data
- Store PostScript fonts
- Store log data



🔗 Note

You can install PostScript fonts with this optional Printer Hard Disk Type 3000. With Macintosh, types of fonts supported are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.

Memory Unit Type C 64/128/256MB

Module Type:

SO-DIMM (Small Outline Dual-in-line Memory Module)

Memory Type:

SDRAM (Synchronous Dynamic RAM)

Number of Pins:

144 pins

User Account Enhance Unit Type B

✤ Capacity:

64 KB

Specifications:

Store User Code (Up to 400 users)



Network Interface Board Type 3000

Topology:

Ethernet (10Base-T/100Base-TX)

Protocols:

TCP/IP, NetBEUI, IPX/SPX, AppleTalk

Interface Connector:

RJ45

Required Cable:

STP (Shielded Twisted-Pair) cable Category / Type 5 or better

1394 Interface Unit Type 4510

♦ Interface:

IEEE Std. 1394-1955 compliant, IEEE Std. 1394-2000 compliant.

Interface Connector:

IEEE 1394 (6 pins × 2)

Required cable:

IEEE 1394 interface cable (6 pins x 4 pins, 6 pins x 6 pins)

Important

You cannot plug devices together to create loops.

Do not use a cable more than 4.5 meters long All Manuals Search And Download.



- Connectable number of devices in a bus: Maximum 63
- Allowed cable hops in a bus: Maximum 16
- Data Transmission: 400 Mbps (Maximum)

Power supply:

Non power supply Cable Power repeated (IEEE 1394a-2000 compliant)

802.11b Interface Unit TypeA (R-WL11)

Transmission Spec.:

Based on IEEE 802.11b (Wireless LAN)

Protocol:

TCP/IP, NetBEUI, IPX/SPX, AppleTalk

🔗 Note

□ SmartNetMonitor and WebStatusMonitor are supported.

✤ Data Transfer Speed:

Auto select from below speed 1Mbps, 2Mbps, 5.5Mbps, 11Mbps



Frequency Range:

- Inch version: 2412-2462 Mhz (1-11 channels)
- Metric version: 2412-2472 Mhz (1-13 channels)

Transmittable Distance:

- 1Mbps 400m ^{*1} 2Mbps 270m ^{*1} 5.5Mbps 200m ^{*1}
- 11Mbps 140m *1
- ^{*1} These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10-100 m, depending on the environment.

Transmission Mode:

ad hoc mode and infrastructure mode





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