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Introduction

This manual describes detailed instructions on the operation and notes about the use of this machine. To get maximum versatility from this machine all operators are requested to read this manual carefully and follow the instructions. Please keep this manual in a handy place near the machine.

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[®] 2000 are as follows: Microsoft[®] Windows[®] 2000 Advanced Server Microsoft[®] Windows[®] 2000 Server Microsoft[®] Windows[®] 2000 Professional
- The product names of Windows[®] XP are as follows: Microsoft[®] Windows[®] XP Professional Microsoft[®] Windows[®] XP Home Edition
- The product names of Windows ServerTM 2003 are as follows: Microsoft[®] Windows ServerTM 2003 Standard Edition Microsoft[®] Windows ServerTM 2003 Enterprise Edition Microsoft[®] Windows ServerTM 2003 Web Edition
- 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.

[]

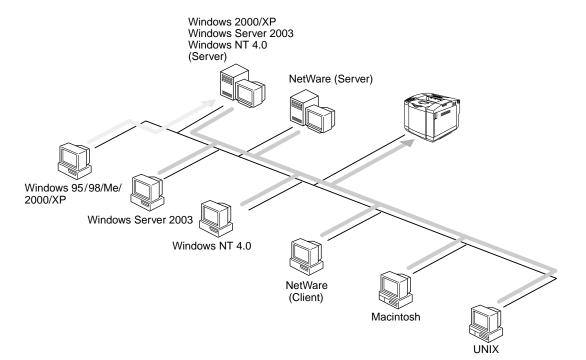
Keys built into the machine's control panel.

Keys on the computer's keyboard.



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Confirming a Network Environment



Connecting Printer and Computer

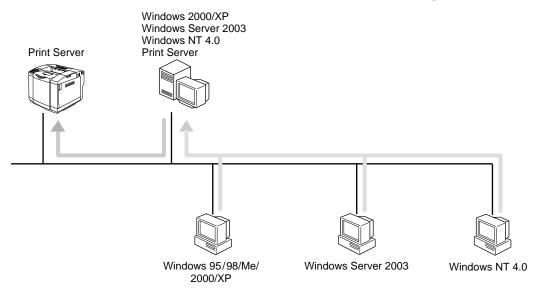
- Network connection (Ethernet cable)
- Network connection (IEEE 802.11b (Wireless LAN))
- Parallel connection (parallel cable)
- BluetoothTM



Print Server Configuration

Using a Windows 2000/XP, Windows Server 2003, or Windows NT 4.0 Print Server

You can use Windows 2000/XP, Windows Server 2003, or Windows NT 4.0 as a print server.



See p.16 "Preparation before Use" to set up the network environment, and then prepare the print server referring to the following topics in accordance with the operating system used.

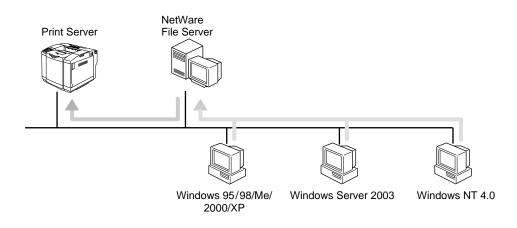
- See p.23 "Windows 2000 Print Server Configuration".
- See p.47 "Windows XP, Windows Server 2003 Print Server Configuration".
- See p.67 "Windows NT 4.0 Print Server Configuration".



Using a NetWare Server

You can print out from a client using Windows 95/98/Me/2000/XP, Windows Server 2003 or Windows NT 4.0 by using NetWare 3.x, NetWare 4.x, NetWare 5/5.1, or NetWare 6/6.5 as the print server. The network interface board allows you to use the machine as either a print server or a remote printer.

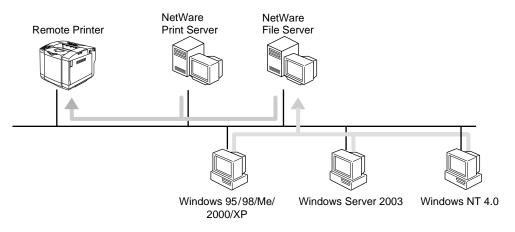
Using as a Print Server





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Using as a Remote Printer



See p.16 "Preparation before Use" to set up the network environment, , and then see p.89 "NetWare Configuration" to prepare the NetWare server.



1. Preparation before Use

Configuring the Printer for the Network

When connecting this printer to a network using an Ethernet cable or an optional 802.11b interface unit, relevant settings are required.

Configuring the Printer for the Network

Make the network settings below depending on the network interface you use.

You can also use SmartDeviceMonitor for Admin or Web Image Monitor to make IP addressrelated settings in a TCP/IP-capable environment. For details about using SmartDeviceMonitor for Admin, see SmartDeviceMonitor for Admin Help. For details about using Web Image Monitor, see Web Image Monitor Help.

🔑 Reference

For details about optional 802.11b interface unit settings, see *Option Setup Guide*

Configure the printer for the network using the printer's control panel.

The following table shows the control panel settings and their default values. These items are included in the "Host Interface" menu.

Setting Name	Value	
DHCP	On	
IP Address *1	011.022.033.044	

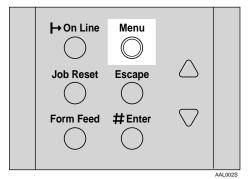
Setting Name	Value	
Subnet Mask *1	000.000.000.000	
Gateway Address *1	000.000.000.000	
Frame Type (NW)	Auto	
Active Protocol	TCP/IP	Active
	NetWare	Active
	SMB	Active
	AppleTalk	Active
Ethernet Speed *2	Auto	
LAN Type	Ethernet	

*1 If DHCP is in use, the IP address, subnet mask, and gateway address are all set automatically.

*2 Make this setting only when it is necessary. See p.198 "Host Interface Parameters"



Operating Instructions Administrator Reference



"Menu" appears on the panel display.

2 Press [▲] or [▼] key to display "Host Interface" menu, and then press [# Enter] key.

🔗 Note

□ Press the [▲] or [▼] key once, and not longer than necessary.

Menu: Host Interface

The following message appears on the panel display.

Press [▲] or [▼] key to display "Network Setup", and then press [# Enter] key.

Host Interface: Network Setup

The following message appears on the panel display.

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

Host Interface: Active Protocol

The following message appears on the panel display.

5 Press [▲] or [▼] key to select [Active Protocol], and then press [# Enter] key.

Active Protocol: TCP/IP

The following example explains activating TCP/IP.

The "Active/Not Active" selection screen appears.



Press [▲] or [▼] key to select "Active" or "Not Active", and then press [# Enter] key.

TCP/IP: *Active

After the settings are made, about two seconds later, the screen returns to that of step5.

2 Set other protocols you need to set in the same way.

3 Press **[Escape]** key.

The screen of step **5** appears.

🔗 Note

- □ The default is "Active".
- □ Leave unused protocols "Not Active".
- Enable TCP/IP to use the Pure IP environment of NetWare 5/5.1, NetWare 6/6.5.

6 When you use this machine in DHCP environment, proceed to step[]. When you use this machine with a fixed IP address, you must make the setting for the required item after setting DHCP to Off. Proceed to step[].

Important

- When DHCP is On, you cannot make settings for the following items:
 - IP Address
 - Subnet Mask
 - Gateway Address

🔗 Note

Consult your network administrator for information about making network settings.

7 Set DHCP to Off.

Press [▲] or [▼] key to display "DH-CP", and then press [# Enter] key.

Network Setup: DHCP



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

DHCP: *Off

🔗 Note

- □ * shows the current setting.
- After about two seconds, the display returns to the "Network Setup" setting screen.

1 If you use TCP/IP, assign the IP address to the printer.

🔗 Note

- To get the IP address for the printer, contact your network administrator.
- □ 011.022.033.044 cannot be used.
- Press [▲] or [▼] key until the following message appears, and then press [# Enter] key.

Network Setup: IP Address

The current IP address appears on the panel display. Press [▲] or [▼] key to enter the left most entry field of the IP address, and then press [# Enter] key.

> IP Address: 192.000.000.000

The screen changes, and the next field can then be entered.

🔗 Note

- It takes a while for the display to change after pressing [▲] or [▼] key. To set a new IP address, press [▲] or [▼] key releasing immediately - and then make sure that the display changes. The value moves by 10 if [▲] or [▼] key is kept pressed.
- □ When **[# Enter]** key is pressed, the cursor moves to the next field.
- □ To display the previous field, press the **[Escape]** key.
- Press the [Escape] key when no value is entered and the screen will return to that of step 3-1, without the IP address changing.



3 Make the other settings in the same way, and then press [# Enter] key.

IP Address: 192.168.000.010

After the settings are made, about two seconds later, the screen returns to that of step 8-1.

9 If you use TCP/IP, assign "Subnet Mask" and "Gateway Address" following the same procedure for entering the IP address.

If you use NetWare, select the frame type for NetWare.

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Select one of the items below if necessary.

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

🔗 Note

- Usually, use the default setting ("Auto"). When you first select "Auto", the frame type detected by the printer is adopted. If your 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.
- Press [▲] or [▼] key to display "Frame Type (NW)", and then press [# Enter] key.

Network Setup: Frame Type (NW)

The current setting appears on the panel display.



2 Press [▲] or [▼] key to display the frame type you want to use, and then press [# Enter] key.

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

After the settings are made, about two seconds later, the screen returns to that of step 10-1.

11 Select the interface.

"IEEE 802.11b" appear only when the 802.11b interface unit are installed.

Select one of the items below.

- Ethernet
- IEEE 802.11b
- Press [▲] or [▼] key to display "LAN Type", and then press [# Enter] key.

Network Setup: LAN Type

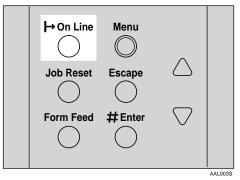
The current setting appears on the panel display.

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

LAN Type: *Ethernet

After the settings are made, about two seconds later, the screen returns to that of step [1-1] after about 2 seconds.

Press [On Line] key.



"Ready" appears on the panel display.

Ready



B Print a configuration page to confirm the settings made.

🔑 Reference

See p.166 "Printing a Configuration Page".

Prepare the print server or client computer.

🔑 Reference

- When you prepare the print server, see the following in correspondence with the OS used.
- When you prepare the client computer, see the *Client Reference*.



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2. Windows 2000 Print Server Configuration

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

- SmartDeviceMonitor See p.24 "Configuring the Protocols" and p.27 "Installing SmartDeviceMonitor for Client" and p.28 "Installing the PCL 5c or RPCS Printer Driver" or p.36 "Installing the PostScript Printer Driver".
- Standard TCP/IP Port, LPR Port See p.24 "Configuring the Protocols" and p.28 "Installing the PCL 5c or RPCS Printer Driver" or p.36 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Print Services for UNIX" must be installed. For more information about installing the "Print Services for UNIX", see Windows 2000 Help.



Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure Windows 2000 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 p.16 "Configuring the Printer for the Network" that comes with this printer.

If DHCP is used to assign IP addresses, see p.307 "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].

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.

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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

- □ 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.

5 To use LPR Port, Print Services for UNIX must be installed. When "Print Services for UNIX" is not installed, install it from [Optional Network Components] on the [Details] menu under [Network Dial-up Connection].

🔑 Reference

For more information about installing the "Print Services for UNIX", see Windows 2000 Help.



Configuring NetBEUI for Printing

Follow these instructions to configure the network interface board and Windows 2000 to use the Net-BEUI protocol.

Preparation

To use NetBEUI, use the SmartDeviceMonitor for Client port.

Configuring the printer

Enable SMB to print using NetBEUI (The default is active).



For more information about how to make the above settings, see p.16 "Configuring the Printer for the Network" that comes with this printer.

Configuring a Windows 2000 computer

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

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 SmartDeviceMonitor 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 [SmartDeviceMonitor for Client / Admin].
- **5** Click to select [SmartDeviceMonitor 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 SmartDeviceMonitor 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.

- SmartDeviceMonitor
- Standard TCP/IP Port
- LPR Port



SmartDeviceMonitor

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

♦ TCP/IP

- ① Click [TCP/IP].
- ② Click [Search]. Available printers will be listed.
- ③ 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.
- ④ Click **[OK]**.



NetBEUI

- ① Click [NetBEUI].
- 2 Click [Search].

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

③ 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.166 "Printing a Configuration Page". NetBEUI address appears as "\RNPxxxxxx" 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.
- ④ Click **[OK]**.



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" in the [Printer URL] field.

🔗 Note

If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor for Client Help.

5 Click **[OK]**.



Standard TCP/IP Port

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

🔗 Note

- □ If [Standard TCP/IP Port] is not displayed, set Windows 2000 help to enable the standard TCP/IP.
- **2** Click [Next] in the "Add Standard TCP/IP Printer Port Wizard" window.
- **3** Type the printer name or IP address in the "Printer Name or IP Address" box.

🔗 Note

- □ A port name is automatically entered in the [Port] box. Change this if necessary.
- **4** Click [Finish] in the "Add Standard TCP/IP Printer Port Wizard" window.

The printer driver installation screen returns.



LPR Port

1 Select [LPR Port], and then click [OK].

🔗 Note

- □ If [LPR Port] is not displayed, Print Services for UNIX is not properly installed. Install it from [Optional Network Components] on the [Details] menu under [Network Dialup Connection]. For more information about installing Print Services for UNIX, see Windows 2000 Help.
- **2** Type the printer's IP address in the "Name or address of server providing lpd" box.
- **③** Type "lp" in the "Name of printer or print queue on that server" box, and then click [OK].

Click [OK].

The port is added.

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

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

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

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.46 "Setting the Printer Shared".



b Configure the default printer as necessary.

User Code

The procedure to specify the "User Code" may differ depending on the printer language.

• RPCS

You can specify the "User Code" when installing the printer driver. You cannot register or edit the "User Code" from the Printer Driver dialog box. To change the "User Code", you must uninstall the printer driver, and then register the new "User Code" during the re-install process.

• PCL 5c

You can specify the "User Code" with the Printer Driver Properties after installing the printer driver. See printer driver's Help.

Default Printer

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

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].

 ${f t}$ When the [Installation completion.] dialog box appears, click [Finish].

19 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.44 "Bidirectional transmission".

🔑 Reference

For more information about option settings, see p.43 "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: Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.

5 Click [Next >].



6 Select the port you want to use.

- SmartDeviceMonitor
- Standard TCP/IP Port
- LPR Port

SmartDeviceMonitor

- Click [Create a new port:].
- **2** Select [SmartDeviceMonitor], and then click [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.



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.166 "Printing a Configuration Page". NetBEUI address appears as "\RNPxxxxxxx" 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.



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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" in the [Printer URL] field.

🔗 Note

□ If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor 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.46 "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.43 "Setting Up Options".



Changing Port Settings

Follow the steps to change SmartDeviceMonitor 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.
 - $\textcircled{\ }$ O click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor 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 SmartDeviceMonitor 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.

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].

🔗 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.

3 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/2000/XP, Windows Server 2003 and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the [Change Accessories] 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.
- SmartDeviceMonitor 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.



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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].



3. Windows XP, Windows Server 2003 Print Server Configuration 47

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

• SmartDeviceMonitor

See p.48 "Configuring the Protocols" and p.50 "Installing Software" and p.51 "Installing the PCL 5c or RPCS Printer Driver" or p.57 "Installing the PostScript Printer Driver".

• Standard TCP/IP Port, LPR Port See p.48 "Configuring the Protocols" and p.51 "Installing the PCL 5c or RPCS Printer Driver" or p.57 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Print Services for UNIX" must be installed. For more information about installing the "Print Services for UNIX", see Windows XP or Windows Server 2003 Help.



Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure the network interface board and Windows XP or Windows Server 2003 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, Windows Server 2003 Configuration", *Client Reference* that comes with this printer.

If DHCP is used to assign IP addresses, see p.307 "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 or Windows Server 2003 computer

Follow these steps to configure a Windows XP or Windows Server 2003 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 [This connection uses the following items:] 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 or Windows Server 2003 Help file.

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 SmartDeviceMonitor 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 [SmartDeviceMonitor for Client / Admin].
- **5** Click to select [SmartDeviceMonitor 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 SmartDeviceMonitor for Client, restart the computer and continue with necessary configurations.



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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.

- SmartDeviceMonitor
- Standard TCP/IP Port
- LPR Port



SmartDeviceMonitor

- Click [Add].
- **2** 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.

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" in the [Printer URL] field.

🔗 Note

□ If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor 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.

2 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.66 "Setting the Printer Shared".

A Configure the default printer as necessary.

Default Printer

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

E 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].

12 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.64 "Bidirectional transmission".

🔑 Reference

For more information about option settings, see p.63 "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: Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.

5 Click [Next >].



6 Select the port you want to use.

- SmartDeviceMonitor
- Standard TCP/IP Port
- LPR Port

SmartDeviceMonitor

- Click [Create a new port:].
- **2** Select [SmartDeviceMonitor], 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" in the [Printer URL] field.

🔗 Note

If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor 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.66 "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.

🔗 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.63 "Setting Up Options".



Changing Port Settings

Follow the steps to change SmartDeviceMonitor 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 SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor 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 SmartDeviceMonitor 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.

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.

3 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/2000/XP, Windows Server 2003 and Windows NT 4.0.
- If you use the RPCS printer driver and bidirectional transmission is enabled, the [Change Accessories] 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 or Windows Server 2003 [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.
- SmartDeviceMonitor for Client included on the CD-ROM must be installed, and the TCP/IP protocol must be used.
- Under Windows XP or Windows Server 2003 [Enable bidirectional support] must be selected and [Enable printer pooling] must not be selected on the [port] tab with RPCS printer driver.



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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 [share this printer] on the [Sharing] tab.

Enter a shared name in [Share Name].

5 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.

Click [OK].



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4. Windows NT 4.0 Print Server Configuration

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

- SmartDeviceMonitor
 See p.68 "Configuring the Protocols" and p.72 "Installing Software" and p.73 "Installing the PCL 5c or RPCS Printer Driver" or p.79 "Installing the PostScript Printer Driver".
- LPR Port

See p.68 "Configuring the Protocols" and p.73 "Installing the PCL 5c or RPCS Printer Driver" or p.79 "Installing the PostScript Printer Driver".

🔗 Note

□ If you want to use "LPR Port", "Microsoft TCP/IP Printing" must be installed. For more information about installing the "Microsoft TCP/IP Printing", see Windows NT 4.0 Help.



Configuring the Protocols

Configuring TCP/IP and IPP for Printing

Follow these instructions to configure the network interface board and Windows NT 4.0 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", *Client Reference* that comes with this printer.

If DHCP is used to assign IP addresses, see p.307 "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], 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 NT 4.0 computer

Follow these steps to configure a Windows NT 4.0 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 4.0 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.
- **E** 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 4.0 Help.



Configuring NetBEUI for Printing

Follow these instructions to configure the network interface board and Windows NT 4.0 to use the Net-BEUI protocol.

Preparation

To use NetBEUI, use the SmartDeviceMonitor for Client port.

Configuring the printer

Configure the printer to use the NetBEUI protocol.

• Enable SMB to print using NetBEUI (The default is active).

ዖ Reference

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





Configuring a Windows NT 4.0 computer

Install the NetBEUI protocol on the Windows NT 4.0 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 4.0 Help.
- 2 Change the Lana Number. Click the [Services] tab, click "NetBIOS Interface" in the [Network Services:] box, and then click [Properties:].
- **3** 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.

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

🔗 Note

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



Installing Software

Installing SmartDeviceMonitor 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 [SmartDeviceMonitor for Client / Admin].
- **5** Click to select [SmartDeviceMonitor 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 SmartDeviceMonitor 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)

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.

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

- SmartDeviceMonitor
- LPR Port

SmartDeviceMonitor

- Click [Add].
- **2** Select [SmartDeviceMonitor], 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.



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 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.166 "Printing a Configuration Page". Net-BEUI address appears "\RNPxxxxxx" 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.



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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" in the [Printer URL] field.

🔗 Note

If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor for Client Help.

5 Click **[OK]**.



LPR Port

Click [Add].

2 Select [LPR Port], and then click [OK].

- 🔗 Note
- □ If [LPR Port] is not displayed, "Microsoft TCP/IP Printing" is not installed. Click [Add] on the [Service] tab to install "Microsoft TCP/IP Printing". For more information about installing the "Microsoft TCP/IP Printing", see Windows NT 4.0 Help.

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].

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

1 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.88 "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.

16 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.86 "Bidirectional transmission".

🔑 Reference

For more information about option settings, see p.85 "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: Portugues, Suomi

Click [PostScript 3 Printer Driver].

"Add Printer Wizard" starts.



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5 Click [Next >].

6 Select the port you want to use.

- SmartDeviceMonitor
- LPR Port

SmartDeviceMonitor

- Click [Create a new port:].
- **2** Select [SmartDeviceMonitor], 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.166 "Printing a Configuration Page". NetBEUI address appears as "\RNPxxxxxxx" 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" in the [Printer URL] field.

🔗 Note

If this machine has the optional network data protection unit installed and server authentication is issued, enter "https://printer's-ip-address/printer" (Internet Explorer 5.01 or a later version must be installed).

(Example IP address: 192.168.15.16)

http://192.168.15.16/printer https://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 SmartDeviceMonitor 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].
- 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.88 "Setting the Printer Shared".

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

Click [Finish].

Start printer driver installation.

12 Set up the options.

🔑 Reference

For more information about option settings, see p.85 "Setting Up Options".



Changing Port Settings

Follow the steps to change SmartDeviceMonitor 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.
 - $\textcircled{\ }$ Click [Cancel] to close the [Port Configuration:] dialog box.
 - ② Start SmartDeviceMonitor for Client, and then right-click the SmartDeviceMonitor 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 SmartDeviceMonitor 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.

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].

🔗 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.

3 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/2000/XP, Windows Server 2003 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.
- SmartDeviceMonitor 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.

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].

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.



5. NetWare Configuration

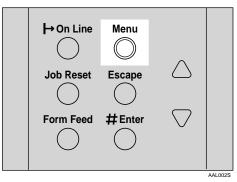
This chapter describes how to configure the printer to use as a print server or a remote printer in a Net-Ware environment.

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 89



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 "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.
- $\hfill\square$ 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 ll
- Ethernet 802.2
- Ethernet 802.3
- Ethernet SNAP

🔗 Note

□ 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.

● 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.166 "Printing a Configuration Page".

SmartDeviceMonitor for Admin

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

🔗 Note

- □ If you configure the NetWare printing environment by using SmartDeviceMonitor 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/XP, Windows Server 2003, Windows NT 4.0
- □ Use the version of Novell Client provided with your operating system or the latest version.

Printers listed by SmartDeviceMonitor for Admin

SmartDeviceMonitor for Admin displays a list of printers, which are connected to the network. If you cannot find out the printer from the displayed list, see the configuration page printed from the printer. For more information about printing a configuration page, see p.166 "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.

Basic Procedure
Install SmartNetMonitor for Admin
Print Server Remote Printer
Configure Network Interface Board
Configure NetWare
Turn the power off and on

🔗 Note

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



Installing SmartDeviceMonitor for Admin

Install SmartDeviceMonitor for Admin on your computer. For the installation procedure, see p.114 "Installing SmartDeviceMonitor for Admin".

After installing SmartDeviceMonitor for Admin, go to p.95 "Setting Up as a Print Server" to use this computer as a print server, or to p.97 "Setting Up as a Remote Printer" to use it as a remote printer.

Setting Up as a Print Server

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

2 Run SmartDeviceMonitor 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.166 "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.89 "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.

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



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

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

8 Click to select [Bindery 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.

D After confirming the settings, click [Next].

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

11 Exit SmartDeviceMonitor 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

 \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 SmartDeviceMonitor 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.166 "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.89 "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.

- **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.

5 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.

1 From the [Available Options] menu, select [Print Queue Information], and then press Enter key.

2 Press Insert key, and then type a print queue name.

3 Press ESC key to return to the [Available Options] menu.

Create a printer as follows:

1 From the [Available Options] menu, select [Print Server Information], and then press Enter key.

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 Server]** list.

Important

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



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

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.

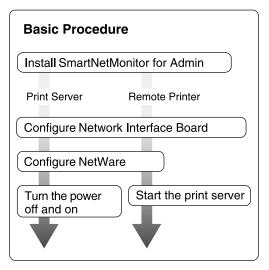


NetWare 4.x, 5/5.1, 6/6.5- Advanced Settings

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, 5/5.1, 6/6.5 environment.

To use NetWare 5/5.1, 6/6.5

- 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.89 "Configuring the NetWare Protocol using the Control Panel".





Installing SmartDeviceMonitor for Admin

Install SmartDeviceMonitor for Admin on your computer. For the installation procedure, see p.114 "Installing SmartDeviceMonitor for Admin".

After installing SmartDeviceMonitor for Admin, go to p.102 "Setting Up as a Print Server" to use this computer as a print server, or to p.107 "Setting Up as a Remote Printer" to use it as a remote printer.

Setting Up as a Print Server

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

2 Run SmartDeviceMonitor 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.166 "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.89 "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.

🔑 Reference

If you use Pure IP, see p.105 "Using Pure IP in the NetWare 5/5.1, 6/6.5 Environment"

- **5** Click to select [Wizard], and then click [OK].
- **6** Type the device name into the [Device Name] box and comment into the [Comment] box as necessary, and then click [Next].
- Z Select the [NetWare] check box, and then click [Next].
- **8** 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".



- 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 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]**.

D After confirming the settings, click [Next].

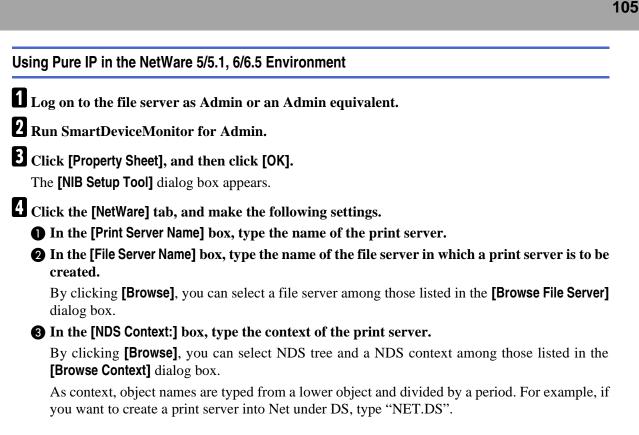
The settings take effect, and the NIB Setup Tool exits.

1 Exit SmartDeviceMonitor for Admin.

1 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
- \square If the printer works as configured, the name of the print server appears as an attached user.









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

After this step, go to step **8** on p.107 "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 SmartDeviceMonitor 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.166 "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.89 "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.

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



6 Click the [NetWare] tab, and make the following settings.

1 In the [Logon Mode] area, select [File Server Mode] or [NDS Mode].

- 🔗 Note
- □ If [File Server Mode] is selected, a connecting destination will be chosen based on the string entered in step ③.
- □ If **[NDS Mode]** is selected, a connecting destination will be chosen based on the string entered in step ④.
- **2** In the [Print Server Name(P):] box, enter the name of the print server.

Important

□ Use the same name as that of the print server name to be set from NWadmin ([2-3).

Limitation

- □ Enter up to 47 alphanumeric characters.
- **3** In the [File Server Name(F):] box, enter the name of the file server in which a print server is to be created.

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

Limitation

□ Enter up to 47 alphanumeric characters.

4 In the [NDS Tree(T):] box, enter the NDS tree name in which to make the file server.

By clicking **[Browse(B)...]**, you can select the NDS tree name and NDS context name from their lists.

Limitation

 $\hfill\square$ Enter up to 32 alphanumeric characters ("-" and "_" can be used).



(5) In the [NDS Context(C):] box, enter the context in which the print server is to be created.

Limitation

- Enter up to 127 alphanumeric characters.
- **3** In the [Print Server Option Mode] area, click [As Remote Printer(R)].
- **7** In the [Remote Printer No.(N)] box, enter the number of the printer.

Important

- □ Use the same number as that of the printer to be created in the print server (}-4).
- 3 Click [OK] to close the NIB Setup Tool Network board list] dialog box.
- **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].
- 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].



O Create a printer as follows:

- Select the container object the printer is located in, and then click [Create] in the [Object] menu.
- 2 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].

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].
- **12** Create a print server as follows:
 - Select the context specified using the NIB Setup Tool (Step 2 1), and on the [Object] menu, click [Create].
 - 2 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 2).
- **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 - 7).

6 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



6. Using SmartDeviceMonitor for Admin

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Using SmartDeviceMonitor 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.

SmartDeviceMonitor 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.



Operating Instructions Administrator Reference

Operating system	Protocol stack	
Microsoft Windows 95/98/Me	TCP/IP provided with Windows 95/98/Me	
	IPX *1/SPX provided with Windows 95/98/Me	
	NetWare network client provided with Windows 95/98/Me	
	Novell Client for Windows 95/98/Me	
Microsoft Windows 2000	TCP/IP provided with Windows 2000	
	IPX *1/SPX provided with Windows 2000	
	NetWare Client provided with Windows 2000	
	Novell Client for Windows NT/2000/XP	
Microsoft Windows XP	TCP/IP provided with Windows XP	
	IPX *1/SPX provided with Windows XP	
	Novell Client for Windows NT/2000/XP	
Microsoft Windows Server 2003	TCP/IP provided with Windows Server 2003	
	IPX *1/SPX provided with Windows Server 2003	
	NetWare Client provided with Windows Server 2003	
Microsoft Windows NT 4.0	TCP/IP provided with Windows NT 4.0	
	IPX ^{*1} /SPX provided with Windows NT 4.0	
	Client Service for NetWare provided with Windows NT	
	Novell Client for Windows NT/2000/XP	

^{*1} IPX is used for monitoring the machines.

🔗 Note

□ Select the appropriate protocol stack for your operating system.



Installing SmartDeviceMonitor 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)

4 Select [SmartDeviceMonitor 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 SmartDeviceMonitor for Admin, restart the computer and continue with necessary configurations.



Changing the Network Interface Board Configuration

- **1** Run SmartDeviceMonitor 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.
- **B** 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], [Property Sheet], or [Web browser], 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]**.
 - If you select **[Web browser]**, the Web browser starts up and Web Image Monitor Administrator Mode user ID and password dialog box appears. Settings can be made using Web Image Monitor. See p.125 "Using a Web Browser" for details.



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 SmartDeviceMonitor for Admin Help.



Locking the Menus on the Printer's Control Panel



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

🔗 Note

 $\hfill\square$ 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 Printer Operation Panel].

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 Printer Operation Panel] menu, select [Enable].

🔗 Note

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

2 Click [Apply].

8 Exit the Web browser.



Changing the Paper Type

- **1** Run SmartDeviceMonitor 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 paper type you want to change.

4 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** From the [Paper Type] pull-down menu, select paper type.
- **7** Click [Apply].
- 8 Exit the Web browser.



Managing User Information

Print jobs under each user code can be managed, and functions can be restricted to certain users only.

✓ Reference

For details about User Management Tool, see SmartDeviceMonitor for Admin Help.

Starting up the User Management Tool

- **1** Run SmartDeviceMonitor for Admin.
- **2** On the [Group] menu, point to [Search Device], and then click [TCP/IP] or [IPX/SPX].
 - A list of printers appears.
 - 🔗 Note
 - □ Select the protocol of the printer whose configuration you want to change.
- **E** In the list, select the printer whose figures you want to manage.
- **4** From the [Tools] menu, select [User Management Tool].
 - A password screen appears.
- **5** Enter the password, and then click [OK].

🔗 Note

- □ The default password is "password".
- User Code Maintenance Tool starts up.



Displaying the Number of Sheets Printed

1 Click the [User Page Count] tab of User Management Tool.

Information about the number of sheets printed appears.

Saving Information about the Number of Sheets Printed

Numbers of printed sheets per user code can be saved as a csv file.

Click the [User Page Count] tab of User Management Tool.

2 Click the [File] menu, and then click [Export User Statics List].

3 Specify the folder and file name to save it to, and then click [Save].



Resetting Information about the Number of Sheets Printed Numbers of printed sheets per user code can be reset (to 0). Click the [User Page Count] tab of User Management Tool. Click the user whose information is to be reset. Click the [Edit] menu, and then click [Reset User Counters]. Select the check box of the item to be reset, and then click [OK]. The following message appears. Click [Yes]. The number is reset. Click the [Edit] menu and click [Apply Settings]. Changes to information are applied.

Setting Restrictions on Functions Use

Individual functions can be restricted.

Click the [Edit] menu of User Management Tool, and then click [Restrict Access To Device].

2 Select the check boxes of the functions to restrict.

Click [OK].

The following message appears.

4 Click [Yes].

Changes to settings are applied.



Setting the Functions Available Individual Users

The following explains adding a user and setting the functions available to that user.

- **1** Click the [Access Control List] tab from User Management Tool.
- **2** Click the [Edit] menu, and then click [Add New User].
- **3** Input the user code and user name.

4 Select the check box of the functions available to the new user.

- 🔗 Note
- □ If a function's check box is gray, no restrictions are set. For details about setting these functions for use, see p.121 "Setting Restrictions on Functions Use", or SmartDeviceMonitor for Admin Help.
- **5** Click [OK].

6 Click the [Edit] menu, and then click [Apply Settings].

Changes to settings are applied.

🔑 Reference

See SmartDeviceMonitor for Admin Help for details about for setting restrictions for use.



Configuring the Energy Save Mode

- Run SmartDeviceMonitor 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 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].
- **5** 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 SmartDeviceMonitor 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 you want to change its configuration.

4 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 then enter a password.

8 Click [OK].



7. Using a Web Browser

You can check machine status and change settings using the web browser. This function is called Web Image Monitor.

What can it do?

You can remotely check the status of a machine or specify its settings over the network using a computer's Web browser.

The following functions are available with Web Image Monitor:

- Displaying machine status/settings
- Checking print job status/history
- Interrupting a job that is currently printing
- Resetting
- Managing the Address Book
- Making machine settings
- Setting mail notification
- Setting the network protocol
- Setting security

Configuring the machine

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

🔑 Reference

For more information about configuring the machine to use TCP/IP, see p.16 "Configuring the Printer for the Network".



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Web Browser

OS	Browser
Windows 95/98/Me/2000/XP	Minner fi Internet Frankrau f. 5. en leter
Windows Server 2003	Microsoft Internet Explorer 5.5 or later Netscape Navigator 7.0 or later
Windows NT 4.0	
Mac OS 8.1 or later	Netscape Navigator 7.0 or later
Mac OS X 10.1 or later	Netscape Navigator 7.0 or later
	Safari 1.0 or later

Limitation

- □ If the Web browser in use is older than the recommended version or [Java Script] and [Cookie] are not available, display and operation problems may occur.
- □ If you are using a proxy server, change the Web browser settings. Consult your network administrator about the settings.
- □ Sometimes after clicking [Back], the previous page may not appear. In this case, click [Refresh] or [Reload].
- □ This machine information cannot refresh automatically. Click [Reload] or [Refresh] on the Web browser, or click [Refresh] on the work area when you want to refresh.



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Going to the Top Page

1 Access the machine by entering "http: //(IP address of this machine)/" in the web browser's address bar.

The Web Image Monitor Top Page appears.

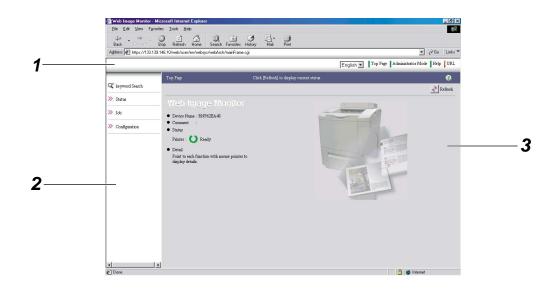
🔗 Note

- If the machine's host name is registered on the DNS or WINS server, you can enter it. For details, see p.307 "Using DHCP".
- □ When this machine has the optional network data protection unit and server authentication is issued, a message appears indicating that encrypted communication is in effect. Click **[OK]** on the displayed message.

Using the frame function, Web Image Monitor is divided over the following areas:



Operating Instructions Administrator Reference



1. Header area

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

2. Menu area

These buttons are for configuring the network interface board and checking machine status.

3. Status

Displays machine status, network interface board name, and comments.



Types of Menu Configuration and Mode

Items that appear on the menu area differ between user mode and administrator mode.

The work area which appears under the selected menu displays machine status under user mode and machine setting under administrator mode.

🔗 Note

- □ "O" indicates machine status can be displayed.
- □ "●" indicates machine settings can be changed.
- □ "—" indicates the menu is not displayed.

Menu Reset Printer Job			User Mode	Administrator Mode
			—	
Reset Device			—	•
Status	Input Tray	Input Tray		О
	Output Tray	Output Tray		О
	Toner	Toner		О
	Function	Function		О
System Printer Language			О	О
		lage	О	О
Job	Printer	Spool Printing *1	О	•
		Job History	О	
		Error Log	О	
		Locked & Sample Print *2		

Operating Instructions Administrator Reference

Menu			User Mode	Administrator Mode	
Address Book				—	•
Configuration	Paper			—	•
	System			—	•
	Printer			О	•
	User Code Management			_	•
	Notification *3			_	•
	E-mail *3			0	•
	Interface			О	•
	Network Protocol	Protocol	0	•	
			TCP/IP	О	•
			NetWare	0	•
			AppleTalk	О	•
			SMB	О	•
			SNMP	—	•
			Rendezvous	0	•
	System Log			0	0
	Webpage		О	•	

Menu		User Mode	Administrator Mode	
Configuration	Security	Password	—	
		Access Control	—	
		IPP Authentication		
		SSL/TLS *4		•
		Certificates *4	—	

- ^{*1} The [Spool Printing] menu appears only when the optional hard disk drive is installed, and [Spool Printing] is set to [On] using the control panel's [System] Menu.
- ^{*2} When the optional hard disk drive is attached.
- *3 When **[On]** is set for **[Notify by Email]** in the **[System]** menu of the control panel.
- ^{*4} The **[SSL/TLS]** menu and **[Certificates]** menu appears only when the optional network data protection unit is installed.



Menu Summary

Displays a summary of each Web Image Monitor menu.

🔑 Reference

For details about displaying status and changing settings, see p.135 "Using Help on the Web Image Monitor".

Reset Printer Job

Click **[Reset Printer Job]** on the Top Page to reset current jobs and jobs on standby.

Reset Device

Click **[Reset Device]** on the Top Page to reboot when the current job is completed.

Status

Displays machine status, including remaining quantity of sheets in the paper tray and amount of remaining toner.

Job

• Printer

Allows display and deletion of lists, including those for spool printing jobs and error history, and Sample Print/Locked Print.

🔗 Note

In user mode, Sample Print/Locked Print is possible, but spool printing jobs and error history cannot be deleted.

Address Book

User information can be registered, displayed, changed, and deleted.



Configuration

- Paper Set the paper size and type for the paper tray.
- System

Make machine system settings, including machine name, spool printing ON/OFF, and SNTP server address.

• Printer

Settings can be made for certain items set using the control panel, including system setup and interface setup.

- User Code Management Set whether to restrict usage by function.
- Notification

Specify what is to be notified by e-mail. Settings can be made for this machine's mail address, notice destination group, notification per alert item, notice timing, etc.

• E-mail

Make required settings for the notice by e-mail function.

To send alert information using the notice by e-mail function, set the destination e-mail address, SMTP, etc. • Interface

Make interface-related settings, including Ethernet and wireless LAN.

• Network

Make settings for each protocol, including TCP/IP and NetWare enabling/disabling, and displaying the system log.

• Webpage

Make settings Web Image Monitor Help, link destinations, and the display language.

• Security

Make security settings, including password changes for Web Image Monitor administrator mode access, access control, and issuance server authentication.

Server authentication can be realized by obtaining a certificate issued from a certification authority or issuing your own certificates. When a certificate is issued, encrypted communication becomes possible. The optional network data protection unit is necessary to use the server authentication function.



Access in Administrator Mode

1 On the Web Image Monitor Top Page, click [Administrator Mode].

The password and user name dialog box appears.

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

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



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Using Help on the Web Image Monitor

When using Help for the first time, clicking either **[Help]** in the header area or the icon marked "?" in the work area makes the following screen appear. From there you can check Help in two different ways, as shown below:

Checking a Help Using the Internet

You can check the latest Help updates.

Downloading and Checking Help

You can download Help to your computer's hard drive and view it. As the Help URL, you can specify the path to the local file to view the Help without connecting to the Internet.

🔗 Note

- □ By clicking **[Help]** in the header area, Help contents normally appear.
- By clicking "?", the Help icon in the work area, Help for the items shown in the work area normally appears.

Downloading Help

- **1** In the [OS] list, select the operating system.
- **2** In the [Language] list, select the language.
- Click [Download].
- **4** Download Help by following the messages on screen.
- **5** Save the downloaded compressed file, and then decompress it.

🔗 Note

□ To check the downloaded Help, specify the path where the file is decompressed.



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 Web server.

1 Access Web Image Monitor in Administrator Mode.

Reference

p.134 "Access in Administrator Mode".

2 In a left area, click [Configuration].

3 Click [Webpage]



In the [Help URL] box, enter the path to the Help files.

If you copied the Help files to "C:\HELP\EN", enter "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", enter "http://a.b.c.d/HELP/".

5 Click [Apply].



8. 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 SmartDeviceMonitor for Client.

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

SmartDeviceMonitor for Admin

Allows you to change names and comments when the TCP/IP protocol or IPX/SPX protocol is available. You can install SmartDeviceMonitor for Admin from the CD-ROM that comes with the printer. For more information about installing SmartDeviceMonitor for Admin, see p.102 "Installing SmartDeviceMonitor 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.



SmartDeviceMonitor for Admin

1 Run SmartDeviceMonitor for Admin.

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

🔗 Note

□ 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 15 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.



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 15 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.

Click [OK].

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

Z Exit SmartDeviceMonitor for Admin.



Web Browser

1 Run the Web browser.

2 Enter "http: //(IP address of printer whose you want to change its settings)/" in the address bar to access the printer whose settings you want to change.

The Web Image Monitor Top Page appears.

3 Click [Administrator Mode].

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 In the left area, click [Configuration], and then click [Network].

6 Change names and comments.

TCP/IP

Click [TCP/IP].

2 If a name is used by Ethernet or wireless LAN, enter it in [Host Name] the [Ethernet] column.

In the **[Host Name]** box, type the name of the printer within 15 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.



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SMB

Click [SMB].

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 SMB 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 15 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.

7 Click [Apply].

The setting is transmitted to the printer.

8 Exit the Web browser.



Displaying the Status of Printer

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

SmartDeviceMonitor for Admin

1 Run SmartDeviceMonitor for Admin.

2

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 SmartDeviceMonitor 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 appears on the dialog box.

🔗 Note

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



SmartDeviceMonitor for Client

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

Monitoring Printers

1 Run SmartDeviceMonitor for Client.

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

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

If it is configured, see p.144 "Displaying the Status of Printers".

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

The [SmartDeviceMonitor 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 SmartDeviceMonitor for Client icon on the task tray.
- □ For more information about the status icons, see Help.

5 Click [OK].

The dialog box closes and the configured printer is monitored.



Displaying the Status of Printers



2 Getting further information on the status, right-click the SmartDeviceMonitor for Client icon, and then click the desired printer.

The status of the printer appears 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 Enter "http: //(IP address of the printer whose you want to display its status)/" in the address bar to access the printer whose status you want to display.

The Web Image Monitor Top Page appears.

3 In the left area, click [Status].

4 Click the menu item you want to check.

The printer's status is displayed.



For more information about each item, see Web Image Monitor Help.



Machine Status Notification by E-mail

When alerts, such as paper tray empty or paper jam, occur, machine status notification can be generated using the notify by e-mail function.

A status notification e-mail is sent to a previously set e-mail address.

Notification timing and content, etc. can also be set.

Set [Notify by Email] on the [System] menu to [On] using control panel (it is set to [On] when shipped from the factory).

🔑 Reference

For more information, see p.186 "System Menu"

2 Start web browser, and then access this machine by inputting "http: //(IP address of this machine)/" in the address bar of the web browser.

The top page of the Web Image Monitor appears.

At the top page of Web Image Monitor, click [Administrator Mode].

The dialog box for entering the password and user name appears.

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

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

5 In a left frame, click [Configuration].

6 Click [E-mail].

7 Make settings for the following:

The dialog box for making e-mail notification settings appears.

- Key Operator's E-mail Address
- Items in the SMTP column
- Items in the POP before SMTP column

8 Click [Apply].

9 In a left frame, click [Notification].

The dialog box for making notification settings appears.

1 Make settings for the following:

- Device E-mail Address
- Notification Message
- Items in the Groups to Notify column
- Items in the Select Groups/Items to Notify column

To make detailed settings for items, click **[Edit]** next to **[Detailed Settings of Each Item]**, make settings in the dialog box that appears, and then click **[OK]**.

Click [Apply].

12 Exit web browser.



9. Making Printer Settings with the Control Panel ¹⁴⁷

Menu Chart

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

🔗 Note

□ It takes a while for the display to change after pressing the key. Press and release the key immediately, make sure that the display changes, and then proceed to the next step.

Category	Function Menu
Sample Print	Select Action / Error File(s) *1
Locked Print	Select Action / Error File(s) *1
Paper Input	Tray 1 Ppr.Size
\Rightarrow p.155	Paper Type
	Tray Locking
	Tray Priority
List/Test Print	Config.P/Er.Log
\Rightarrow p.162	Config. Page
	Error Log
	Menu List
	Color Demo Page
	PCL Config.Page
	PS Config. Page



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Category	Function Menu
List/Test Print	PDF Config.Page
\Rightarrow p.162	Hex Dump
	Operations Test
Maintenance	Color Calibrate
\Rightarrow p.171	Registration
	PlainPaper Type
	ThickPaper Type
	A5/HLT Size
	Maint. Reset
	HD Format ^{*1}
	4C.Graphic Mode
	WL.LAN Signal *2
	WL.LAN Defaults *2
	Key Repeat
	Menu Protect *3



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Category	Function Menu
System	Prt. Err Report
\Rightarrow p.186	Auto Continue
	Memory Overflow
	Copies
	Printer Lang.
	Sub Paper Size
	Page Size
	Def.Print Lang.
	Duplex *4
	Energy Saver 1
	Energy Saver 2
	Unit of Measure
	Spool Printing *1
	Letterhead Mode
	RAM Disk
	Notify by Email
Host Interface	I/O Buffer
\Rightarrow p.197	I/O Timeout
	Network Setup
	IEEE 802.11b *5
	USB Setting *3



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Category	Function Menu
PCL Menu	Orientation
\Rightarrow p.208	Form Lines
	Font Source
	Font Number
	Point Size
	Font Pitch
	Symbol Set
	Courier Font
	Ext. A4 Width
	Append CR to LF
	Resolution
PS Menu	Data Format
\Rightarrow p.214	Resolution
	Color Setting
	Color Profile
PDF Menu	PDF: Change PW
\Rightarrow p.218	PDF Group PW
	Resolution
	Color Setting
	Color Profile
Language⇒ p.225	

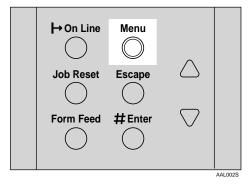


- ^{*1} The "Sample Print" menu, the "Locked Print" menu, the "HD Format" menu, and the "Spool Printing" menu appear only when the optional hard disk drive is installed.
- ^{*2} The "WL.LAN Signal" and the "WL.LAN Defaults" menu appears only when "IEEE 802.11b" is selected in "LAN Type" in the Host Interface menu.
- *3 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", "USB Setting" on the panel display.
- ^{*4} The "Duplex" menu appears only when the optional duplex unit is installed.
- ^{*5} The "IEEE 802.11b" menu appears only when the optional 802.11b interface unit is installed.



Accessing the Main Menu

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



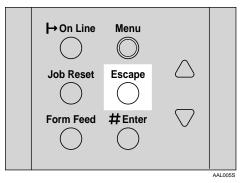
This menu shows the following 11 items which can be displayed one by one by pressing the [] or $[\lor]$ key.

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



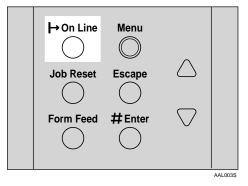
🔗 Note

- □ If the optional hard disk drive is not installed, the "Sample Print" menu and the "Locked Print" menu cannot be displayed on the control panel.
- □ **(**▼**)** key: Press to go to the next page.
- □ [▲] key: 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.



□ 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.

- Tray 1 Ppr.Size
- Paper Type
- Tray Locking
- Tray Priority

✓ Reference

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



Paper Input Parameters

Menu	Description
Tray 1 Ppr.Size	The paper size for the tray 1.
	For more information about paper sizes that can be set in the bypass tray, see "Paper and Other Media Supported by This Printer", <i>Maintenance Guide</i> .
	• Auto
	Custom Size
	🔗 Note
	Default: Auto
Paper Type	If you use different kinds of paper, set the paper type for Tray 1, Tray 2.
	For more information about paper sizes that can be set in each tray, see <i>Maintenance Guide</i> .
	♦ Tray 1
	Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Pre- printed, Thick Paper, Labels, Cardstock, Transparency, Glossy
	♦ Tray 2
	Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Pre- printed, Labels
	🔗 Note
	Default : Plain Paper
	Only the installed trays appear on the panel display.



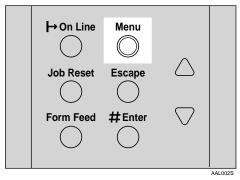
Menu	Description
Tray Locking	If you use different kinds of paper, you can lock a tray to prevent printing on wrong paper such as letterhead or colored paper. When "Auto Select" is selected in the Paper Source selections from the printer driver, the locked tray will not be used. You can select each tray set to on or off. Tray 1, Tray 2
	✓ Note
	Default : Off
	When using paper of an irregular size, if [Tray Locking] is specified as [On], the size specified by the operation panel is given priority, while if it is specified as [Off], the size specified by the printer driver is given priority.
	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 se- lected 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
	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





"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 Lockins



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

Tray Lockin8: Tray 1

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.

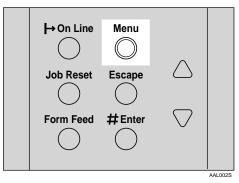
"Ready" appears on the panel display.

Ready



Tray Priority

1 Press the [Menu] key.



"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



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 10 menu items in the "List/Test Print" menu.

- Config.P/Er.Log
- Config. Page
- Error Log
- Menu List
- Color Demo Page
- PCL Config.Page
- PS Config. Page
- PDF Config.Page
- Hex Dump
- Operations Test



List/Test Print Parameters

Menu	Description
Config.P/Er.Log	You can print the configuration page and error log.
Config. Page	You can print the current configuration of the printer. See p.166 "Printing a Con- figuration Page".
Error Log	You can print an error report.
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.
PCL Config.Page	You can print the current configuration of the PCL.
PS Config. Page	You can print a list of the installed PS Fonts.
PDF Config.Page	You can print the Adobe [®] PDF Reference, Memory/HDD status, Printing Con- figuration, and Resident Fonts.
Hex Dump	You can print the data sent by the computer using the Hex Dump mode.
Operations Test	You can confirm paper feeding, discharge and printing operation, including op- tions. Options—related settings are only displayed for those options actually in- stalled. When a specified function cannot be performed, a message appears and printing is interrupted. When the function operates properly, a border with black lines is printed out.



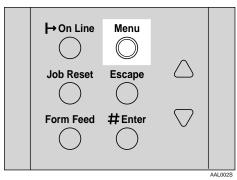
Printing the Configuration Page and Error Log

The configuration page and error log can be printed out together.

Important

□ The configuration page and error log print out on A4 or Letter (8 ¹/₂ x 11) size paper, so place same A4 or Letter (8 ¹/₂ x 11) size paper in the paper tray.

Press [Menu] key.



"Menu" appears on the panel display.

2 Press **[▼]** or **[▲]** key to display the "List/Test Print" menu, and then press **[# Enter]** key.

Menu: List/Test Print

The following message appears on the panel display.



B Press [▼] or [▲] key to display the "Config.P/Er.Log" menu, and then press [# Enter] key.

List/Test Print: Confi§.P/Er.Lo§

The configuration page and error log print out. The test print menu screen returns on completion of printing.

Important

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

4 Press [On Line] key.

"Ready" appears on the panel display.

Ready



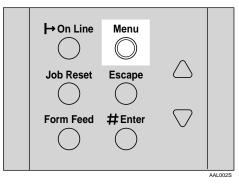
Printing a Configuration Page

The following example explains the procedure for printing out the configuration page. The procedure for printing out other lists is basically the same.

Important

The configuration page prints out on A4 or Letter (8 ¹/₂ x 11) size paper, so place same A4 or Letter (8 ¹/₂ x 11) size paper in the paper tray.

Press the [Menu] key.



"Menu" appears on the panel display.

Press the [▼] or [▲] key to display the "List/Test Print" menu. and then press [# Enter] key.

```
Menu:
List/Test Print
```

The following message appears on the panel display.



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

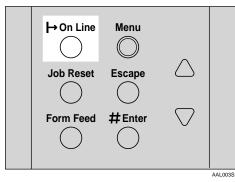
```
List/Test Print:
Confiš. Paše
```

The configuration page prints out. The test print menu screen returns on completion of printing.

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", *Maintenance Guide*.

4 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.155 "Paper Input Menu".

Maintenance

Shows the settings made under the "Maintenance" menu.



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

System

Shows the settings made under the "System" menu.



For more information, see p.186 "System 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, see p.197 "Host Interface Menu".



PCL Menu

Shows the settings made under the "PCL Menu".

Reference

For more information, see p.208 "PCL Menu".

PS Menu

Shows the settings made under the "PS Menu".



For more information, see p.214 "PS Menu".

PDF Menu

Shows the settings made under the "PDF Menu".



For more information, see p.218 "PDF Menu".

Interface Information

Shows the interface information.



Maintenance Menu

There are 12 menu items in the "Maintenance" menu.

- Color Calibrate
- Registration
- PlainPaper Type
- ThickPaper Type
- A5/HLT Size
- Maint. Reset
- HD Format
- 4C.Graphic Mode
- WL.LAN Signal
- WL.LAN Defaults
- Key Repeat
- Menu Protect

Maintenance Menu Parameters

Menu	Description
Color Calibrate	Corrects the gradation of bright area (highlight parts) and medium areas (middle parts) when printing.
	 Start Calibr. 1 You can print the gradation correction sheet 1.
	 Start Calibr. 2 You can print the gradation correction sheet 2.
	Reset You can reset the gradation correction value to the initial value
	Reference For more information, see "Correcting the Color Gradation", Main- tenance Guide.
Registration	Prt. Test Sheet You can print the registration test sheet.
	 Adjustment You can select the start position for printing on page. Horiz.: Tray 2 Horiz.:Dup.Back -3.5 to +3.5 (by 0.5 mm)
	 Note The registration values are not default. Only the installed trays appear on the panel display.



Menu	Description
PlainPaper Type	You can select the type of plain paper you wish to use as a default.
	✤ Tray 1, Tray 2
	• 60-74g/16-20lb
	• 74-90g/20-24lb
	• 90-105g/24-28lb
	🔗 Note
	□ Default: 74-90g/20-24lb
ThickPaper Type	You can select the type of thick paper you wish to use as a default.
	Limitation
	Tray 1 can be used for thick paper printing. Thick paper cannot be used if it is placed in the optional paper feed unit tray (tray 2).
	• 105-163g28-43lb
	• 163-210g43-55lb
	• Postcard(Japan)
	Thin Envelopes
	Thick Envelopes
	🔗 Note
	□ Default: 105-163g28-43lb



Menu	Description
A5/HLT Size	[A5/HLT Size] can be selected when A5 vertical or HLT $(5^{1}/_{2} \times 8^{1}/_{2})$ vertical paper is placed in tray 1.
	Limitation
	□ A5 vertical or HLT $(5^{1}/_{2} \times 8^{1}/_{2})$ vertical paper cannot be used if it is placed in the optional paper feed unit tray (tray 2).
	• Tray 1 HLT
	• Tray 1 A5
	🤗 Note
	Default:
	Metric: Tray 1 A5
	Inch: <i>Tray 1 HLT</i>
Maint. Reset	Maintenance Reset allows the user to reset each internal unit counters such as the PCU and fusing unit. These counters can be reset at anytime, but are necessary at the time of unit reinstallation.
	For more information, see "Replacing Consumables and Maintenance Kit", <i>Maintenance Guide</i> .
HD Format	You can format the hard disk drive.
	Available when the optional hard disk drive is installed.
	✓ Reference
	For more information about formatting the hard disk drive, see "At- taching the Hard Disk Drive Type 2600", <i>Option Setup Guide</i> .



Menu	Description
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.181 "Displaying the Signal Strength".
WL.LAN Defaults	You can reset the wireless LAN settings to the default.
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 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.

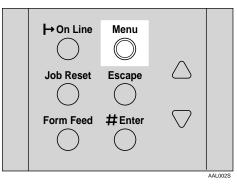
*1 While the printer is On Line, press the [# Enter] key, and then press the [Escape] key. Finally, press the [Menu] key. You can access the "Menu Protect" menu on the panel display.



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.

B 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 Calibrate



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.

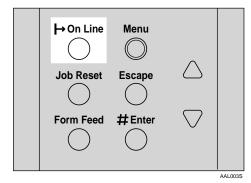
Menu Protect: *Off

6 Press 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.



"Ready" appears on the panel display.

Ready



Removing Protect

- 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 Calibrate

- 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.

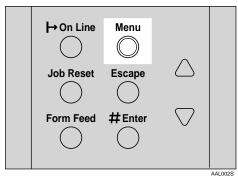
Ready



Displaying the Signal Strength

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

Press the [Menu] key.



"Menu" appears on the panel display.

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

Menu: Maintenance

The following message appears on the panel display.



B Press the [▼] or [▲] key to display "WL.LAN Signal", and then press [# Enter] key

Maintenance: WL.LAN Signal

One of the following messages appears on the panel display.

WL.LAN Signal Good 100%

WL.LAN	Si≋nal
Fair	80%

WL.LAN Signal Poor 60%

WL.LAN Siếnal Unavailable 30%



🔗 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.
- □ Signal status can be measured in the [Infrastructure] mode of the wireless LAN's "Comm. Mode". If the "Comm. Mode" is set to [Ad hoc] or [802.11 Ad hoc], signal status can not be measured. To measure signal status, select [Infrastructure] as the [Comm. Mode] from [IEEE 802.11b] on the [Host Interface] menu.
- D Every time you press the **[# Enter]** key, the signal is updated.
- □ The signal is indicated as "Good" if the signal strength is 86-100%, "Fair" if the strength is 61-85%, "Poor" if the strength is 31-60%, and "Unavailable" if the strength is 0-30%. 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.

4 Press the [Escape] key.

5 Press the [On Line] key.

"Ready" appears on the panel display.

Ready



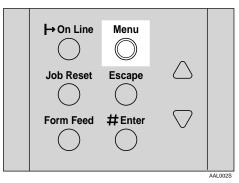
Resetting the IEEE 802.11b (Wireless LAN) Settings

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 $[\mathbf{\nabla}]$ or $[\mathbf{\Delta}]$ key to display the "Maintenance" menu, and then press [# Enter] key.

Menu: Maintenance

The following message appears on the panel display.



B Press the [▼] or [▲] key to display "WL.LAN Defaults", and then press [# Enter] key.

Maintenance: WL.LAN Defaults

The following message appears on the panel display.

WL.LAN Defaults: Reset->Defaults?

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

```
Defaults reset
Press # to exit
```

The wireless LAN setting value is reset.

After about three seconds, "Ready" appears on the panel display.

Ready



System Menu

There are 16 menu items in the "System" menu.

- Prt. Err Report
- Auto Continue
- Memory Overflow
- Copies
- Printer Lang.
- Sub Paper Size
- Page Size
- Def.Print Lang.
- Duplex
- Energy Saver 1
- Energy Saver 2
- Unit of Measure
- Spool Printing
- Letterhead Mode
- RAM Disk
- Notify by Email

System Parameters

Menu	Description
Prt. Err Report	 You can select whether or not to have an error report printed when a printer error or memory error occurs. Off On Note Default: Off
Auto Continue	 You can set whether Auto Continue is enabled. When it is on, printing continues after a system error occurs. Off Immediate 1 minute 5 minutes 10 minutes 15 minutes Ø 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.



Menu	Description
Memory Overflow	You can select whether the memory overflow error report should be printed.
	Do not Print
	• Error Info.
	🔗 Note
	Default: Do not Print
Copies	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
Printer Lang.	You can specify the printer language.
	Auto Detect
	• PCL
	• PS
	• PDF
	• XPDL_0
	• XPDL_1
	Note
	Default: Auto Detect



Menu	Description	
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. Off Auto 	
	Solution Note	
	Default: Off	
Page Size	You can specify the default paper size.	
	8 $^{1}/_{2}$ x 14, 8 $^{1}/_{2}$ x 11, 7 $^{1}/_{4}$ x 10 $^{1}/_{2}$, 5 $^{1}/_{2}$ x A4, A5, Custom Size	
	 Note Default: 	
	Metric version: A4	
	• Inch version: 8 1/2 x 11	
	The value set for page size is applied when the paper size is not specified in the print data.	
Def.Print Lang.	You can specify the default printer language.	
	• PCL	
	• PS	
	• PDF	
	XPDL_0XPDL_1	
	🔗 Note	
	Default: PCL	



Menu	Description	
Duplex	 You can select whether you want to print on both sides of each page. Off Short Edge Bind Long Edge Bind 	
Energy Saver 1	 You can set On/Off for the Energy Save Mode level 1. This is Preheat mode. On Off Note Default: Off When the printer switches to Energy Saver mode, the Power indicator turns off, while the On Line indicator stays on. 	



Menu	Description
Energy Saver 2	 Switching Setting You can select whether to switch to Energy Saver mode. Select [On] to Energy Saver mode, or [Off] if you do not want to switch to Energy Saver mode. On Off Note
	 Default: On Switching Time You can select how many minutes the printer waits before switching to Energy Saver mode. Energy Saver mode reduces electric power consumption. 5 minutes 15 minutes 30 minutes 45 minutes 60 minutes 60 minutes Default: 30 minutes Default: 30 minutes When the printer switches to Energy Saver mode, the Power
	indicator turns off, while the On Line indicator stays on and "En- ergy Save Mode" appears on the panel display.



Menu	Description	
Unit of Measure	You can select "mm" or "inch" for the custom paper size.	
	Note	
	Default:	
	Metric version: mm	
	Inch version: inch	
Spool Printing	You can select whether all of the print data is spooled to the hard disk drive be- fore printing.	
	• Off	
	• On	
	🔗 Note	
	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 hard disk drive is in- stalled.	
Letterhead Mode	You can select the letterhead printing mode.	
	• Off	
	Auto Detect	
	• On (Always)	
	🔗 Note	
	Default: Off	



Menu	Description
RAM Disk	If the optional hard disk drive is not installed, when executing PDF Direct Print set a value of 2 MB or higher.
	This menu appears only when the optional hard disk drive is not installed.
	• 0 MB
	• 2 MB
	• 4 MB
	• 8 MB
	• 16 MB
	 Note Default: 4 MB
	 Important When SDRAM is not increased and RAM Disk set to 16 MB, depending on the print job, printing may not be possible and duplex printing canceled. If this happens, increase SDRAM, or set RAM Disk to 8 MB or less.
	Reference For more information about the optional SDRAM module, see Op- tion Setup Guide.



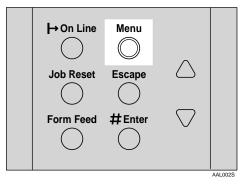
Menu	Description
Notify by Email	You can have error details sent to a preset e-mail address when an error occurs in the printer.
	• Off
	• On
	 Important After changing the setting, turn off the power of the main unit briefly, and then back on again.
	 Note Default: On



Changing the System Menu

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

Press [Menu] key.



"Menu" appears on the panel display.

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

Menu: System

The following message appears on the panel display.

3 Press **[**▲**]** or **[**▼**]** key to display "Energy Saver 2", and then press **[**# Enter**]** key.

System : Ener%y Saver 2

The following message appears on the panel display.



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

Enersy Saver 2: E. Saver2 Timer

The following message appears on the panel display.

E Press [▲] or [▼] key 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]** key. Wait for two seconds.

"Menu" appears on the panel display.

2 Press [On Line] key.

"Ready" appears on the panel display.

Ready



Host Interface Menu

There are 5 menu items in the "Host Interface" menu.

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

□ For more information about the "Network Setup", see p.16 "Configuring the Printer for the Network"



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
	SP Note
	Default: 128 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



Menu	Description
Network Setup	Network-Related Settings
	Reference For more information, see p.16 "Configuring the Printer for the Net- work".
	 DHCP You can select whether to use DHCP with TCP/IP. On Off
	 Note Default: On
	✤ 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.
	 Note Default: 011.022.033.044



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Menu	Description
Network Setup	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.
	 Note Default: 000.000.000
	 Gateway Address You can set the gateway 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.
	 Note Default: 000.000.000



Menu	Description
Network Setup	 Frame Type (NW) You can set the Frame type for NetWare. Auto Ethernet II Ethernet 802.2 Ethernet 802.3 Ethernet SNAP Ø Note
	 Default: Auto Active Protocol You can set the active protocol. TCP/IP NetWare SMB AppleTalk Note
	Default: All Active



Menu	Description
Network Setup	 Ethernet Speed You can select the speed of the network that the printer is connected to. Auto 10Mbps Half D. 10Mbps Full D. 100Mbps Half D. 100Mbps Full D. 100Mbps Full D. Ø Note Default: Auto Kenter Construction of the printer of the the the the the the the the the the
	 Note Default: Ethernet



Menu	Description	
IEEE 802.11b	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. 802.11 Ad hoc Infrastructure Ad hoc Ø Note Default: 802.11 Ad hoc Comm.Mode can also be set using a web browser. For details, see Web Image Monitor Help, and p.125 "Using a Web Browser" 	
	 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. Auto 11 Mbps 5.5 Mbps 2 Mbps 1 Mbps 	
	 Note Default: Auto 	



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	_	

Menu	Description
IEEE 802.11b	♦ SSID
	You can set for SSID in Infrastructure mode and 802.11 Ad hoc mode. Select [View] to confirm the set SSID. Select [Enter ID] to set the SSID.
	• View
	• Enter ID
	 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.
	SSID can also be set using a web browser. For details, see Web Image Monitor Help, and p.125 "Using a Web Browser".



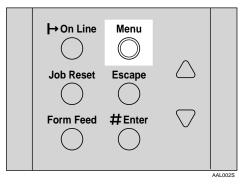
Menu	Description
IEEE 802.11b	♦ WEP Setting
	You can set the code for IEEE 802.11b.
	• Active
	Not Active
	Default: Not Active
	The WEP key is input as a hexadecimal number or an ASCII character sequence.
	When using 64 bit WEP, up to 10 characters can be used for hexadecimal, or up to five characters for ASCII. When using 128 bit WEP, up to 26 characters can be used for hexadecimal, or up to 13 characters for ASCII.
	WEP Key can also be set using a web browser. For details, see Web Image Monitor Help, and p.125 "Using a Web Browser".
USB Setting	You can set the transmission speed for USB.
	• Full Speed
	• Auto
	Note
	Default: Auto



Changing the Host Interface Menu

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

Press the [Menu] key.



"Menu" appears on the panel display.

2 Press the **[▲]** or **[▼]** key to display the "Host Interface" menu. and then press **[# Enter]** key.

Menu: Host Interface

The following message appears on the panel display.



B Press the [▲] or [▼] key to display "I/O Timeout", and then press [# Enter] key.

Host Interface: I/O Timeout

The following message appears on the panel display.

Press the [▲] or [▼] key to select how many minutes the printer waits before ending a print job, and then press [# Enter] key.

```
I/O Timeout:
*15 seconds
```

Wait for two seconds. "Host Interface" appears on the panel display.

5 Press the [On Line] key.

"Ready" appears on the panel display.

Ready



PCL Menu

There are 11 menu items in the "PCL Menu".

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

PCL Parameters

Menu	Description
Orientation	You can set the page orientation.
	• Portrait
	• Landscape
	Default: Portrait
Form Lines	You can set the number of lines per page.
	5-128
	🔗 Note
	□ Default:
	Metric version: 60
	Inch version: 64
Font Source	You can set the location of the default font.
	• Resident
	• RAM
	• HDD
	Default: Resident
	When you select "RAM", you can select only fonts downloaded to the printer RAM.
	When you select "HDD", you can select only fonts downloaded to the optional hard disk drive.



Menu	Description
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
	🔗 Note
	Default: 12.00 points
	This setting is effective only for a variable-space font.
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 options 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: <i>Roman-8</i>



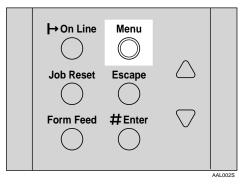
Menu	Description
Courier Font	You can select a courier font type.
	• Regular
	• Dark
	🔗 Note
	Default: <i>Regular</i>
Ext. A4 Width	You can extend the width of the printable area for an A4 sheet leaving a narrow
	margin on the sides.
	• Off
	• On
	🔗 Note
	Default: Off
Append CR to LF	By adding a CR code to each LF code, you can print text data clearly.
	• Off
	• On
	🔗 Note
	Default: Off
Resolution	You can set the print resolution in dots per inch.
	• 300 dpi
	• 600 dpi
	Default: 300 dpi



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.

Menu: PCL Menu

The following message appears on the panel display.

PCL Menu: Orientation



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

Press the [▲] or [▼] key to select the orientation desired, and then press the [# Enter] key.

Orientation: *Landscape

Wait for two seconds. "PCL Menu" appears on the panel display.

5 Press the [On Line] key.

"Ready" appears on the panel display.

Ready



PS Menu

There are 4 menu items in the "PS Menu".

- Data Format
- Resolution
- Color Setting
- Color Profile

PS Parameters

Menu	Description
Data Format	You can select the data format.
	Binary Data
	• TBCP
	 This setting is effective when operating the machine with a parallel, USB or EtherTalk connection.
	When operating the machine with a parallel or USB connection, if binary data is sent from the printer driver, the print job is canceled.
	When operating the machine with an Ethernet connection, the print job is canceled under the following conditions;
	 The printer driver data format is TBCP and the data format se- lected on the control panel is Binary Data.
	 The printer driver data format is binary and the data format se- lected on the control panel is TBCP.
	Note
	Default: Binary Data



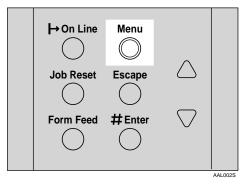
Menu	Description
Resolution	 You can select the resolution. 600 dpi Fast 600 dpi Std. Ø Note □ Default: 600 dpi Fast
Color Setting	 You can make an RGB setting. None Fine Super Fine
Color Profile	You can set the color profile. Auto Solid Color Presentation Photographic User Setting Ø Note Default: Auto



Changing the PS Menu

The following example describes how to change the setting for "TBCP":

Press the [Menu] key.



"Menu" appears on the display.

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

Menu: PS Menu

The following message appears on the display:

PS Menu: Data Format



3 Press the [A] or [V] key to select the TBCP desired, and then press the [# Enter] key.

Data Format: *TBCP

Wait for two seconds."PS Menu" appears on the display.

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

"Ready" appears on the display.

Ready



PDF Menu

There are 5 menu items in the "PDF Menu".

- PDF: Change PW
- PDF Group PW
- Resolution
- Color Setting
- Color Profile

PDF Parameters

Menu	Description	
PDF: Change PW	 Set [Password to Open the Text File] for the PDF file executing PDF Direct Print Current PW PDF: New PW 	
	Important	
	A password can be set using on the Web Image Monitor, but in this case the password information is sent through the network. If security is a priority, set the password using this menu from the Control Panel.	
	 Note Default: no password set 	



Menu	Description
PDF Group PW	Set the group password already specified with DeskTopBinder V2 Lite.
	🤗 Note
	When using a group password, this machine requires the optional network data protection unit.
	Current PW
	<pre>#Important</pre>
	A password can be set using on the Web Image Monitor, but in this case the password information is sent through the network. If security is a priority, set the password using this menu from the Control Panel.
	Note
	Default: no password set
Resolution	You can select the resolution for the PDF file executing PDF Direct Print.
	• 600 dpi Fast
	• 600 dpi Std.
	Note
	Default: 600 dpi Fast
Color Setting	You can make an RGB setting for the PDF file executing PDF Direct Print.
	• None
	• Fine
	Super Fine
	🖉 Note
	Default: Super Fine



Operating Instructions Administrator Reference

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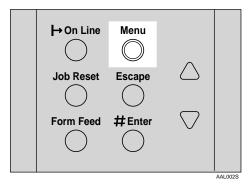
Menu	Description
Color Profile	You can set the color profile for the PDF file executing PDF Direct Print.
	• Auto
	Solid Color
	• Presentation
	• Photographic
	• User Setting
	 Note Default: Auto



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Changing the PDF Menu

1 Press (Menu) key.

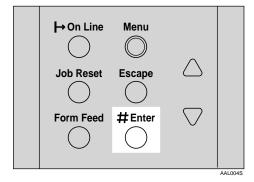


"Menu" appears on the panel display.



Operating Instructions Administrator Reference

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

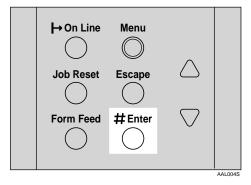


The following message appears on the panel display.

```
PDF Menu:
PDF: Chanše PW
```



3 Press **[**▲**]** or **[**▼**]** key to display "Resolution", and then press **[**# Enter**]** key.



The following message appears on the panel display.

```
PDF Menu:
Resolution
```

4 Press [# Enter] key.

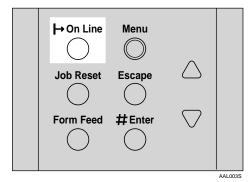
```
Resolution:
*600 dpi
```

5 Press **[\]** or **[\]** key to select the resolution desired, and then press **[#** Enter**]** key.

The screen returns to step 3 in a few seconds.



Operating Instructions Administrator Reference



"Ready" appears on the panel display.

Ready



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.

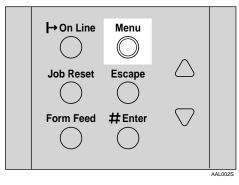
🔗 Note

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", and then press [# Enter] key.

Menu: Language

The following message appears on the panel display.

```
Language:
*En&lish
```

B Press the [▲] or [▼] key until the language you want to select appears on the panel display and then press [# Enter] key.

Wait for two seconds. "Menu" appears on the panel display.

4 Press the [On Line] key.

"Ready" appears on the panel display.

Ready

\triangleleft

10. Appendix

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print postscript files for PostScript 3. Commands that can be used are as follows:

OS	lpr	rcp	ftp
Windows 95/98/Me			1
Windows 2000/XP, Win- dows Server 2003	1	1	1
Windows NT 4.0	~	1	1

The following explains setup and printing.

Setup

1 Setup the printer's network environment.

- Enable the TCP/IP protocol (enabled as default).
- Set TCP/IP-related items, including IP address.

🔑 Reference

p.16 "Configuring the Printer for the Network" for the setup method.

p.307 "Using DHCP", when setting the IP address of the printer using DHCP.

2 Install the TCP/IP protocol in Windows to set the network environment.

🔗 Note

□ Make sure network settings are checked by a network administrator.





3 When printing with Windows 2000/XP, Windows Server 2003 or Windows NT 4.0, install "Printing service for UNIX" as the network software. When printing with Windows NT 4.0, install "Microsoft TCP/IP printing" as the network software.

🔗 Note

- When using Windows 95/98/Me, lpr cannot be used to print.
- This completes the setup for specifying a printer using an IP address when printing. When using a host name to specify a printer, proceed to p.228 "Using a Host Name Instead of an IP Address" and continue the setup.

Using a Host Name Instead of an IP Address

When the host name is defined, you can specify a printer by host name instead of IP address. The host name used differs depending on the network environment.

When using DNS

Use the host name set to the data file on the DNS server.

When setting the IP address of a printer using DHCP

Use the "Printer name" on the Configuration Page as the host name. See p.166 "Printing a Configuration Page" for printing the Configuration Page.



In other cases

Add the IP address and host name of the network printer to the hosts file on the computer used for printing. Methods of addition vary according to OS.

Windows 95/98/Me

- Copy to the same \WINDOWS\HOSTS.SAM directory and name it "HOSTS" (no extension required).
- **2** Open the \WINDOWS\HOSTS file you created using memo pad, etc.
- Add an IP address and a host name to the hosts file in the following format:

192.168.15.16 host # NP

192.168.15.16 is the IP address, "host" is the printer's host name, and "#" to the end are comments. Divide each item with a space or tab, and use only one line.

4 Save the file.

W\indows 2000/XP, Windows Server 2003, Windows NT 4.0

1 Open the hosts file using memo pad, etc.

The hosts file is in the following folder:

\WINNT\SYSTEM32\DRIV-ERS\ETC\HOSTS

WINNT is the directory of the installation destination for Windows 2000/XP, Windows Server 2003, Windows NT 4.0.

2 Add an IP address and a host name to the hosts file in the following format:

192.168.15.16 host # NP

192.168.15.16 is the IP address, "host" is the printer's host name, and "#" to the end are comments. Divide each item with a space or tab, and use only one line.

Save the file.



Printing Method

The following explains printing using the "lpr", "rcp", and "ftp" commands.

Preparation

Enter commands using the commands prompt window. The location of the commands prompt in each operating system is as follows:

- Windows 95/98 [Start]-[Programs]-[MS-DOS Prompt]
- Windows Me [Start]-[Programs]-[Accessories]-[MS-DOS Prompt]
- Windows 2000 [Start]-[Programs]-[Accessories]-[Command Pronpt]
- Windows XP, Windows Server 2003 [Start]-[All Programs]-[Accessories]-[Command Pronpt]
- Windows NT 4.0 [Start]-[Programs]-[Command Pronpt]

🔗 Note

If the "print requests full" message appears, no more print requests can be accepted. Try printing again when the number of session has dropped below the value shown in the following table below.

rcp, rsh	5
ftp	3

Enter the file name in a format including the path from the directory executing the commands.

🔑 Reference

The "option" specified in the command is an intrinsic printer option and its syntax is similar to printing from UNIX. For details, see UNIX Supplement.



lpr

When specifying a printer by IP address c:> lpr -Sprinter's IP address [-Poption] [-ol] \pass name\file name

When using a host name instead of an IP address

```
c:> lpr -Sprinter's host name
[-Poption] [-ol] \pass
name\file name
```

🔗 Note

□ When printing a binary file, add the "-ol" option (lower case O, and lower case L).
 When using a printer with the host name "host", to print a PostScript file named "file1" located in the C:PRINT directory, the command line is as follows:

c:> lpr -Shost -Pfiletype=RPS
-ol C:PRINT\file1

rcp

Register the printer's host name in the hosts file beforehand. See p.228 "Using a Host Name Instead of an IP Address".

c:> rcp [-b] \pass name\file name
[pass name\file name...] printer's host name:[option]

🔗 Note

- □ In the file names, "*" and "?" can be used as wild cards.
- □ When printing a binary file, add the "-b" option.

When using a printer with the host name "host", to print a PostScript file named "file1" or "file2" located in the C:PRINT directory, the command line is as follows.

c:> rcp -b C:\PRINT\file1
C:PRINT\file2 host:filetype=RPS



ftp

Use the put or mput command according to the number of files to be printed.

When the number of files to be printed is one

ftp> put \pass name\file name
[option]

When the number of files to be printed is two or more

```
ftp> put \pass name\file name
[\pass name\file name...] [op-
tion]
```

🔗 Note

□ For the mput command, "*" and "?" can be used as wild cards in the file name.

Limitation

□ If these symbols are used, the file name will be read as an option string.

The procedure from starting ftp to printing is as follows.

1 Formulate the printer's IP address (or host name of the hosts file printer) as an argument and use the "ftp" command.

```
% ftp printer's IP address
```

2 Enter user names and passwords as needed, and then press the [# Enter] key.

There is no default user name when the default password is "password".

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User:

Password:

3 When printing a binary file, set binary as the file mode.

ftp> bin

🔗 Note

When a binary file is printed in ASCII mode, print data may change and may not print out correctly.

4 Specify the file to be printed.

The following are examples of printing a PostScript file named "file1" in the C:PRINT directory, and printing file1 and file2.

ftp> put C:\PRINT\file1 filetype=RPS ftp> mput C:\PRINT\file1 C:PRINT\file2

5 Quit ftp. ftp> bye



SNMP

The SNMP (Simple Network Management Protocol) agent operating on UDP and IPX, is incorporated into the built-in Ethernet board and 802.11b interface unit (option) of this machine.

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.

🔗 Note

□ The community name can be using with the following procedure.

- You can configure SNMP from the command line using telnet. See p.247 "SNMP".
- You can configure SNMP from SmartDeviceMonitor for Admin using the NIB Setup Tool. See SmartDeviceMonitor for Admin Help.
- You can configure SNMP from your Web browser. See Web Image Monitor Help.

Limitation

□ The kinds of supported MIBs differ depending on the printer.

Supported MIBs

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB



Remote Maintenance by telnet

You can view the printer status and configure the network interface board using telnet.



- □ You should specify a password so that only the network administrator, or a person having network administrator privileges, can use remote maintenance.
- □ The password is the same as that used for Web browser (Web Image Monitor) settings. When the password is changed on "mshell", the other passwords change also.

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*

2 Type the password.

🔗 Note

The factory default is "password".

3 Type a command.

🔑 Reference

For more information about telnet commands, see p.236 "Commands List".



4 Exit telnet.

msh> logout

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

U Type "yes" to save the changes, and then press **[# Enter]** key.

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

🔗 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.



□ 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.



msh> ifconfig

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Configuration

msh> ifconfig interface_name parameter address

Interface name	Interface to be configured	
ether	Ethernet Interface *1	
wlan *2	IEEE 802.11b Interface	

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

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

Changing the Interface

You can specify either the ethernet interface or IEEE 802.11b interface when using the optional 802.11b interface unit.

msh> ifconfig interface up

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 ethernet 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 ethernet interface and IEEE 802.11b 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 lpha 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.
- □ You cannot access Web Image Monitor and telnet from a restricted IP address.

Access Control Initialization

msh> access flush

🔗 Note

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



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DHCP

Use the "dhcp" command to configure the DHCP settings.

✓ Reference

For more information about DHCP, see p.307 "Using DHCP".

✤ Reference

The following command displays the current DHCP settings.

msh> dhcp

Configuration

You can configure the DHCP settings.

msh> dhcp interface_name {on|off}

🔗 Note

- □ Select [on] to enable DHCP. Select [off] to disable DHCP.
- □ When the DNS server address and domain name are acquired from DHCP, be sure to select "on".



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Interface Priority Configuration

You can assign priorities governing which interface obtains DHCP parameters.

msh> dhcp priority interface_name

🔗 Note

- □ Priority assignment is useful when connecting more than one interface to the machine.
- If an interface is not selected, it appears according to the currently set priority regardless of multiple interface connections.

Interface name	Interface to be configured
ether	Ethernet interface
wlan *1	IEEE 802.11b interface

^{*1} Available when the optional 802.11b interface Unit is installed.

DNS Server Address Selection

You can specify whether to acquire the DNS server address from the DHCP server or to use it as a user setting.

msh> dhcp dnsaddr [dhcp/static]

🔗 Note

Specify "dhcp" when acquiring the DNS server address from the DHCP server, or specify "static" when using it as a user setting.

🔑 Reference

For more information about setting the DNS server address, see p.266 "DNS".



Domain Name Selection

You can specify whether to acquire the domain name from the DHCP server or to use it as a user setting.

msh> dhcp domainname [dhcp/static]

🔗 Note

□ Specify "dhcp" when acquiring the domain name from the DHCP server, or specify "static" when using it as a user setting.

✓ Reference

For more information about setting the domain name, see p.268 "Domain name".



Protocol

Use the "set" command to set protocol information display to active or inactive.

✤ Reference

Protocol information (active/inactive) appears.

msh> set protocol

Protocol
tcpip
appletalk
netware
smb
protocol *1
lpr
ftp
rsh
diprint
web
snmp
ssl
ipp
http
rendezvous

^{*1} Information about tcpip, appletalk, netware, and smb appears.



Configuration

You can set the protocol to active or inactive.

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

Protocol	
tcpip	"up" means active and "down" means inactive.
appletalk	
netware	
smb	
lpr	
ftp	
rsh	
diprint	
web	
snmp	
ssl	
ipp	
http	
rendezvous	

🔗 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 lpr, ftp, rsh, diprint, web, snmp, ssl, ipp, http, and rendezvous.

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

D 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.284 "Understanding the Displayed Information".



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Network interface board configuration settings information

Use the "show" command to display the network interface board configuration settings.

msh> show [-p]

🔗 Note

□ 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.286 "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.293 "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.
- The printer cannot be accessed from SmartDeviceMonitor for Admin or SmartDeviceMonitor for Client if "public" is not registered in numbers 1-10. When changing the community name, use Smart-DeviceMonitor for Admin and the installed "SNMP Setup Tool" to change a computer's community name to correspond with printer settings.
- 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>	\mathtt{snmp}	number	type	access_	type
------	-----------------	--------	------	---------	------

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

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}
```

- Specify "ip" for TCP/IP, or specify "ipx" for IPX/SPX.
- "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.

- Specifying a TCP/IP address msh> snmp number ip/addr address
- Specifying an IPX/SPX address
 msh> snmp number 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



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.



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.



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 timeout [30~65535]
```

🔗 Note

□ The factory default is 300 seconds.

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.

Settings of NetBEUI related items

msh >	smb	para	meter
-------	-----	------	-------

Parameter	Settings
comp	Your computer name consisting of up to 15 characters
group	Workgroup name consisting of up to 15 characters
comment	Comment consisting of up to 31 characters
notif {on off}	To notify print job completion, specify "on". Otherwise, specify "off"
clear comp	Clears complete name
clear group	Clears Workgroup name
clear comment	Clears comment

Protocol settings

Enable/disable NetBEUI and TCP/IP. Select "up" to enable, and "down" to disable.

msh> smb protocol [netbeui {up | down} | tcpip {up | down}]

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 *1 gateway *1	Adds a host/network route to "destination", and a gateway address to "gateway" in the table. Host becomes the default setting.
route delete [host net] destination *1	Deletes a host/network route from the table. Host becomes the default setting.
route get [destination] *1	Displays only route information corresponding to a specified destination. When the destination is unspecified, all routing information is displayed.
route active {host net} destination *1 on/off	You can turn the specified destination on or off. Host becomes the default setting.
route add default gateway *1	You can set the default gateway address.
route flush	Deletes all routing information.

*1 IP address

🔗 Note

□ Set the gateway address when communicating with devices on a different network beyond the router.

□ The same gateway address is shared by all interfaces.



SLP

Use this command to configure SLP settings.

You can search the NetWare server using SLP in the PureIP environment of NetWare 5/5.1, Netware 6/6.5. 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.
- □ 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 information is displayed.

msh> wiconfig cardinfo

🔗 Note

□ If the IEEE 802.11b is not working correctly, the IEEE 802.11b 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.
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.



Parameter	Value to be configured
key [key value] val [1 2 3 4]	You can specify the WEP key when entering in hexa- decimal.
	With a 64-bit WEP, you can use 10 digit hexadecimal. With a 128-bit WEP, you can use 26 digit hexadecimal.
	Up to four WEP keys can be registered. Specify the number to be registered with "val".
	When a WEP is specified with the key, the WEP specified with the keyphrase is overwritten.
	To use this function, set the same key number and WEP key for all ports that transmit to each other.
	You can omit the numbers with "val". The key number is set to 1 when making these omissions.
keyphrase [phrase] val [1 2 3 4]	You can specify the WEP key when entering in ASCII.
	With a 64-bit WEP, you can use 10 digit hexadecimal. With a 128-bit WEP, you can use 26 digit hexadecimal.
	Up to four WEP can be registered. Specify the number to be registered with "val".
	When a WEP is specified with the keyphrase, the WEP specified with the key is overwritten.
	To use this function, set the same key number and WEP key for all ports that transmit to each other.
	You can omit the numbers with "val". The key number is set to 1 when making these omissions.
encval [1 2 3 4]	You can specify which of the four WEP keys is used for packet encoding. "1" is set if a number is not specified.



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



Job Spool

Use the "spoolsw" command to configure Job Spool settings.

Limitation

□ You can only specify diprint, LPR, IPP, and SMB protocol.

✤ Reference

The Job Spool setting appears. msh> spoolsw

Job Spool setting

msh> spoolsw spool {on | off}

🔗 Note

□ Select [on] to enable Job Spool or [off] to disable it.

Protocol configuration

To change protocol settings, use the following command. You can specify the setting for diprint, LPR, IPP, and SMB protocol.

```
• diprint
```

msh> spoolsw diprint {on | off}

• lpr

msh> spoolsw lpr {on | off}

• ipp

```
msh> spoolsw ipp {on | off}
```

• SMB

msh> spoolsw smb {on | off}



Changing the Host Name

Use the "hostname" command to change the printer name.

Configuration

msh> hostname [interface_name] printer_name

interface name	Interface to be configured
ether	Ethernet interface *1
wlan *2	IEEE 802.11b 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.

🔗 Note

- □ Enter the printer name using up to 15 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.

WINS

Use the "wins" command to configure the WINS server settings

🔑 Reference

For more information about WINS server settings, see p.311 "Configuring a WINS Server".

The specified values of the interfaces used in each of the following settings are shown below.

interface name	Interface to be configured
ether	Ethernet interface
wlan ^{*1}	IEEE 802.11b interface

^{*1} If you install the optional 802.11b interface unit, you can set the command.

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
DHCP current config:
primary server 192.168.10.1 secondary server 192.168.10.2
hostname RNP620B47 ScopeID
```

🔗 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.



Configuration

Use the set command to make WINS active or inactive.

msh> wins interface_name {on | off}

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

Address configuration

Use this command to configure a WINS server IP address.

msh> wins ifname {primary|secondary} IP address

- Use the "primary" to configure a primary WINS server IP address.
- Use the "secondary" to configure a secondary WINS server IP address.
- You cannot use "255.255.255" as the IP address.

NBT (NetBIOS over TCP/IP) Scope ID Selection

You can specify the NBT scope ID.

msh> wins interface_name scope scope ID

• The scope ID is specified using up to 31 alphanumeric characters.



AutoNet

Use the "autonet" command to configure AutoNet settings.

✓ Reference

For more information about AutoNet, see p.310 "Using AutoNet".

Display

The following command displays the current AutoNet settings.

msh> autonet

Configuration

You can configure the AutoNet settings.

msh> autonet [on|off]

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

Interface Priority Configuration

You can assign priorities governing which interface obtains AutoNet parameters.

msh> autonet priority interface_name

🔗 Note

- □ Priority assignment is useful when connecting more than one interface to the machine.
- If an interface is not selected, the interface appears according to the currently set priority, regardless of multiple interface connections.

Interface name	Interface to be configured
ether	Ethernet interface
wlan ^{*1}	IEEE 802.11b interface

^{*1} Available when the optional 802.11b interface unit is installed.



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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 3,600 seconds.
- □ You can set the interval from 16 to 16,384 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".

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 for Web browser (Web Image Monitor) settings. When the password is changed on "mshell", the other passwords change also. If you change a password from telnet, change other passwords also.

4 Type the new password once again.

```
Retype new password:
```

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DNS

Use the "dns" command to configure or display DNS (Domain Name System) settings.

View setting

The following command displays current DNS settings:

msh> dns

DNS server configuration

The following command enables/disables use of the DNS server address:

msh> dns number server server address

The following is a sample configuration using an IP address of 192.168.15.16 on DNS 1 server:

msh> dns 1 server 192.168.15.16

- You can register up to three DNS server numbers.
- You cannot use "255.255.255.255" as the DNS server address.

Dynamic DNS Function Setting

You can set the dynamic DNS function to active or inactive.

msh> dns *ifnam*e ddns {on|off}

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

Interface name	Interface to be configured
ether	Ethernet interface
wlan *1	IEEE 802.11b interface

^{*1} Available when the optional 802.11b interface unit is installed.



Specifying the record overlap operation

You can specify the operation performed when records overlap.

```
msh> dns overlap {update|add}
```

• update

To delete the old record and register a new record.

• add

To add a new record while allowing the old record to remain.

🔗 Note

□ When CNAME overlaps, it is always changed, irrespective of the setting.

CNAME Registration

You can specify whether to register CNAME.

```
msh> dns cname [on|off]
```

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

🔗 Note

□ The CNAME registered is the default name beginning from RNP. CNAME cannot be changed.

✤ A Records Registration

You can specify the method of registering an A record when the dynamic DNS function is active and DHCP is used.

msh> dns arecord [dhcp|own]

• dhcp

To register an A record while using the DHCP server as the DNS client instead of the printer.

• own

To register an A record using the printer as the DNS client.

🔗 Note

□ The DNS server address and domain name already designated on p.240 "DHCP" are used for the registration.



Record Updating Interval Setting

You can specify the interval at which records are updated when using the dynamic DNS function. **msh> dns interval** *time*

- The updating interval is specified in units of one hour. It can be specified over a range of 1 to 255 hours.
- The default is 24.

Domain name

Use the "domainname" command to display or configure domain name settings.

You can configure the Ethernet interface or IEEE 802.11b interface.

View setting

The following command displays the current domain name:

msh> domainname

Interface domain configuration

The following command displays or sets the Ethernet interface domain name or IEEE 802.11b interface.

• Setting the domain name

msh> domainname interface_name domain name

- A domain name can consist of up to 63 alphanumeric characters.
- The Ethernet interface and IEEE 802.11b interface will have the same domain name.
- Deleting the domain name

msh> domainname interface_name clear

Interface	Interface that can be set
ether	Ethernet interface
wlan *1	IEEE 802.11b interface

^{*1} Available when the optional 802.11b interface unit is installed.

Netware

Use the "netware" command to configure the NetWare settings such as the print server name or file server name.

Parameter	Settings
pname	Enter the NetWare print server name using up to 47 characters.
fname	Enter the NetWare file server name using up to 47 characters.
encap [802.3/802.2/snap/ ethernet2/ auto]	Select the encap type.
rnum	Specify the remote printer number.
timeout	Set the timeout.
mode pserver mode ps	Select the print server mode.
mode rprinter mode rp	Select the remote printer mode.
context	Specify the NDS context name.
sap_interval	Specify the SAP intervals. Each interval can be set to between 0 and 3600 seconds in one-second incre- ments.
login server	Specify "login with a selected file server" as the login mode.
login tree	Specify "login with a selected NDS tree" as the login mode.
tree NDS tree name	Select the NDS tree to log on to.

msh> netware parameter



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web

Use the "web" command to display and configure the parameters on the Web Image Monitor.

View Settings

msh> web

URL Configuration

The link address reached by pressing **[URL]** on the Web Image Monitor can be set.

msh> web url http://The URL or IP address you want to register/

Link Name Configuration

You can enter the name for [URL] that appears on the Web browser.

msh> web name Name you want to display

Help URL Configuration

The link address reached by pressing **[Help]** or "?" on the Web Image Monitor can be set. msh> web help http://Help URL or IP address/help/



Rendezvous

The "rendezvous" commands are used for rendezvous-related displays and settings.

View settings

This displays a list of rendezvous settings.

msh> rendezvous

Rendezvous Service Name Setting

You can specify the rendezvous service name.

msh> rendezvous cname "service name"

- The service name is specified using up to 63 alphanumeric characters.
- The current service name appears if a service name is not specified.

Rendezvous Installation Location Information Setting

You can enter information related to the location where the printer is installed.

msh> rendezvous location "location"

- Information related to installation location can be entered using up to 32 alphanumeric characters.
- The current installation location information appears if installation location information is not entered.



Setting Order of Priority for Each Protocol

You can specify the order of priority for "diprint", "1pr", and "ipp". Smaller numbers indicate higher priority.

• diprint

msh> rendezvous diprint [0-99]

• lpr

msh> rendezvous lpr [0-99]

• ipp

msh> rendezvous ipp [0-99]

✤ IP TTL setting

You can specify the IP TTL (the number of routers a packet can pass through).

```
msh> rendezvous ipttl {1-255}
```

🔗 Note

□ The factory default setting is 255.

Resetting the computer name and location information

You can reset the computer name and location information.

```
msh> rendezvous clear {cname | location}
```

• cname

Reset the computer name. The default for the computer name will be displayed when the computer is restarted.

• location

Reset the location information. The location information will be deleted.



Bluetooth™

To make setting for BluetoothTM, use the "btconfig" command.

View settings

The Bluetooth[™] settings are displayed.

msh> btconfig

Mode settings

You can set Bluetooth[™] operation mode to either [private] or [public].

```
msh> btconfig [private | public]
```

🔗 Note

The default is [public].

• 🖓 Terminology

Terms used in the explanations are explained.

Important

□ If a protocol is disabled or inactive, functions provided by that protocol cannot be used.

✤ TCP/IP

```
All functions that use "ftp", "lpr", "rsh"/"rcp", "diprint", http, ipp, web, wins, snmp <sup>*1</sup>, smb <sup>*2</sup>, and rendezvous. <sup>*1 *2</sup>
```

- *1 SNMP using TCP/IP
- *2 SMB using TCP/IP

🔗 Note

You cannot switch protocol functions, but you can disable smtp and dns by switching off or disabling TCP/IP.



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SMB

- Printer function using SmartDeviceMonitor for Client
- Printer function using Microsoft Windows Network
- Printer function using NetBEUI protocol

AppleTalk

• Printer function using Appletalk with Macintosh

🔗 Note

□ This function can be selected when a module supporting PostScript 3 is attached.

NetWare

• Printer function using NetWare server (remote printer/printer server)

🔗 Note

- □ If protocols are disabled or inactive under PureIP environment, only the print server can be used.
- □ If this protocol is switched off or disabled, the SNMP session using IPX/SPX is also disabled.

♦ LPR

- Printer function using Standard TCP/IP
- Printer function using command line

FTP

- Printer function using command line
- Function to obtain device information by command line

RSH/RCP

- Printer function using command line
- Function to obtain device information by command line



DIPRINT

• Printer function using SmartDeviceMonitor for Client

♦ WEB

• Web Image Monitor function

SNMP

- Bidirectional configuration for the printer driver
- Function to obtain device information by SmartDeviceMonitor for Admin/Client

IPP

• Printer function using SmartDeviceMonitor for Client

HTTP

- Web Image Monitor function
- Function to obtain device information by SmartDeviceMonitor for Admin/Client

HTTPS

The following functions assume encrypted communication:

- Web Image Monitor function
- Function to obtain device information by SmartDeviceMonitor for Admin/Client

Wireless LAN

Wireless network interface based on the IEEE 802.11b standard

NBT (WINS)

- Function to register a NetBIOS name (computer name)
- Function to resolve a NetBIOS name (computer name)



♦ Bluetooth[™]

Printing function using BluetoothTM interface

DHCP/Autonet

Function for automatically assigning IP addresses

SMTP

Function for sending and receiving e-mail to and from an SMTP server

DNS

- Function to register a host name (dynamic DNS)
- Function to resolve a host name

Rendezvous

Printer function that can be used with Mac OS 10.2.3 or later when using TCP/IP





Getting Printer Information over the Network

Details of each item when displaying printer status and information.

Printer current status

This gives the status of the printer. Status can be checked using the following method:

- UNIX: uses the "lpq" command and "rsh", "rcp", and "ftp" parameters. For details, see UNIX Supplement.
- mshell: uses the "status" command. For details, see p.245 "Printer status".

Messages	Description
Adjusting	Adjusting color.
Call Service Center	There is a malfunction.
Canceling Job	An error has occurred in the engine part or controller part.
Configuring	The job is being cancelled.
Cover Open: Duplex Unit Rear	The optional duplex unit cover is open.
Cover Open: Front	The front cover is open.
Cover Open: Rear	The rear cover is open.
Cover Open: Upper	The upper cover is open.
Empty: Black Toner	The toner cartridge is empty.
Empty: Cyan Toner	The toner cartridge is empty.
Empty: Magenta Toner	The toner cartridge is empty.
Empty: Yellow Toner	The toner cartridge is empty.



Messages	Description
Energy Saver Mode	The printer is in Energy Saver Mode.
Error: Ethernet Board	An error has occurred in the Ethernet interface.
Error: HDD Board	An error has occurred in the optional hard disk drive.
Error: Optional Font	An error has occurred in the optional font.
Error: Optional RAM	An error has occurred in the optional Memory Unit.
Error: Parallel I/F Board	An error has occurred in the parallel interface.
Error: USB I/F	An error has occurred in the USB interface.
Error: Wireless Card	The IEEE 802.11 b or Bluetooth [™] card shows irregularity.
Error: Wireless Card or Board	The IEEE802.11 b or Bluetooth TM card or board shows irregularity.
Full: Standard Tray	The standard tray is full.
Waste Toner Bottle Full/Not Set	The waste toner bottle is full.
Hex Dump Mode	The printer is in Hex Dump Mode.
Low: Black Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Cyan Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Magenta Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Yellow Toner	The toner cartridge is not set correctly, or toner is almost running out.
Miscellaneous Error	An unspecifiable error has occurred.
Mismatch: Paper Size	The tray's paper type setting differs from that of the actual size in the tray.
Mismatch: Paper Size and Type	The tray's paper type setting differs from that of the actual size and type in the tray.



Messages	Description
Mismatch: Paper Type	The paper type setting of the tray differs from that of the actual type in the tray.
Nearly Full: Waste Toner Bottle	The waste toner bottle will soon be full.
No Paper: Selected Tray	There is no paper in the selected tray.
No Paper: Tray 1	There is no paper in tray 1.
No Paper: Tray 2	There is no paper in tray 2.
Not Detected: Black Toner	The black toner is not correctly set.
Not Detected: Charge Roller	The charger Roller is not correctly set.
Not Detected: Cleaning Blade	The cleaning blade is not correctly set.
Not Detected: Cyan Toner	The cyan toner is not correctly set.
Not Detected: Fusing Unit	The fusing unit is not correctly set.
Not Detected: Input Tray	The input tray is not correctly set.
Not Detected: Magenta Toner	The magenta toner is not correctly set.
Not Detected: PCU	The PCU is not correctly set.
Not Detected: Transfer Unit	The transfer unit is not correctly set.
Not Detected: Tray 1	The tray 1 is not correctly set.
Not Detected: Tray 2	The tray 2 is not correctly set.
Not Detected: WasteToner Bottle	The waste toner bottle is not correctly set.
Not Detected: Yellow Toner	The yellow toner is not correctly set.
Offline	The printer is offline and cannot print data.
Paper Misfeed: Duplex Unit	There is misfeed in the duplex unit.



Messages	Description
Paper Misfeed: Input Tray	There is misfeed in the input tray.
Paper Misfeed: Internal Path	There is a misfeed inside the machine.
Paper Misfeed: Output Tray	There is misfeed in the output tray.
Printing	Busy printing.
Ready	Printing is available.
Replace Fusing Unit	It is time to replace the fusing unit.
Replace PCU	It is time to replace the photo conductor unit.
Warming Up	The printer is warming up.
Waste Toner Bottle Full/Not Set	The waste toner bottle is full, or not set properly.



Printer configuration

You can check the printer configuration using telnet.

✤ telnet

Use the "info" command.

🔗 Note

□ "*" (asterisk) appears with the current setting.

□ 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}
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).

✤ *2 Input Tray: PaperSize

Paper Size	Description
A4 (210 × 297 mm)	A4 (210 × 297) 🔽
A5 (148 × 210 mm)	A5 (148×210) 🔽
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	$5^{1}/_{2} \times 8^{1}/_{2}$
7 1/4 × 10 1/2	$7^{1}_{4} \times 10^{1}_{2} \Box$
Custom(XXXxYYY mm)	Custom Size
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
Internal Tray	Output Tray

♦ *5 Output Tray: Status

Status	Description
Normal	
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.

Item name	Meaning
Rank	Print job status.
	Active
	Printing or preparing for printing.
	Waiting
	Waiting to be transferred to the printer.
Owner	Print request user name.
Job	Print request number.
Files	The name of the document.
Total Size	The size of the data (spooled).
	The default is "0 bytes".

• telnet : Use the "status" command. See p.245 "Printer status".



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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.245 "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.246 "Network interface board configuration settings information".

Item name	Meaning
Common	
Mode	
Protocol Up/Down	Up means active, Down means inactive.
AppleTalk	
TCP/IP	
NetWare	
SMB	
Ethernet interface	Internal version number
Syslog priority	
NVRAM version	Internal version number
Device name	Printer name.
Comment	Comment.
Location	Location of the printer in the SNMP and Rendezvous information
Contact	Person who maintains the printer and contact information in the SNMP information
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	
telnet	
diprint	
web	
http	
ftpc	
snmp	
ipp	
autonet	
rendezvous	
ssl	



Item name	Meaning
ЕпсарТуре	Frame type.
DHCP	Dynamic Host Configuration Protocol (on/off)
Address	IP address.
Netmask	Subnet mask.
Broadcast	Broadcast address.
DNS Domain	DNS domain type
Gateway	Default gateway address.
Access Range[☆] *1	Access Control Range.
Time server	NTP server address
Time Zone	NTP server time difference
Time server polling time	Synchronizes interval
SYSLOG server	
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.



Item name	Meaning
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	
Login Mode	Login mode.
Print job timeout	Time of the job timeout.
Protocol	Protocol used.
SAP interval time	
NDS Tree Name	NDS tree name.
SMB	
Switch	
Mode	(this value is fixed)
Direct print	(this value is fixed)
Notification	Notification of print job completion.
Workgroup name	Name of the workgroup.



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Item name	Meaning
Computer name	Name of the computer.
Comment	Comment.
Share name[1]	Share name (name of the printer type).
Protocol	
IEEE 802.11b *2	
Device Name	Printer name.
DHCP	DHCP (on/off)
Address	IP address.
Netmask	Subnet mask.
Broadcast	Broadcast address.
DNS Domain	DNS domain type
SSID	SSID being used.
Channel range	Channels available for use.
Channel	Channel being used.
Communication mode	IEEE 802.11b interface transmitting mode.
Autentication	
TX Rate	IEEE 802.11b interface speed.
WEP encryption	Whether WEP is enabled or disabled.
Encryption key	WEP key.



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Item name	Meaning
Bluetooth *3	
Bluetooth mode	Bluetooth [™] connection mode
DNS	
Server[X ^{*4}]:	IP address of the DNS server
Selected DNS Server	Selected DNS server
Domain Name	
ether	Domain name on an Ethernet connection
wlan	Domain name on a wireless LAN connection
Rendezvous	
Computer Name	Printer name.
Rendezvous Name (ether)	Printer name displayed with Rendezvous on an Ethernet connection
Rendezvous Name (wlan)	Printer name displayed with Rendezvous on a wireless LAN connection
Location	Location of the printer
Priority (diprint)	diprint priority number
Priority (lpr)	lpr priority number
Priority (ipp)	ipp priority number
IP TTL	IP TTL value
DDNS	
ether	Dynamic DNS function on an Ethernet connection (on/off)
wlan	Dynamic DNS function on a wireless LAN connection (on/off)



Item name	Meaning
WINS	
ether	
Primary WINS	IP address of the primary WINS server on an Ethernet connection
Secondary WINS	IP address of the secondary WINS server on an Ethernet connection
Shell mode	Mode of the remote maintenance tool.

^{*1} \Rightarrow represents a target number between 1 and 3.

^{*2} You can display the item names when installing the optional 802.11b interface unit.

*3 You can display the item names when installing the optional BluetoothTM interface unit.

^{*4} \Leftrightarrow represents a target number between 1 and 3.



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.236 "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: bad trap addr: <ipaddress>, community:<com- munity name></com- </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: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
add_sess_ipx: bad trap addr: <ipxaddress>, communi- ty:<community name=""></community></ipxaddress>	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.
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>



Message	Description and Solutions
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 ex- ceed the maximum number that the file server can handle.
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>
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).



Message	Description and Solutions
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 discover 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 process.
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.
inetd start.	An inetd has started.
IPP cancel-job: permission denied.	The printer could not authenticate the name of the user at- tempting to cancel a job.



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Message	Description and Solutions
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.
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>)</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
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, as- sign the printer object, and then restart the printer device.</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 dupli- cated 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.
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.
session <community name="">already defined.</community>	A requested community name is not defined.
session_ipx <community name=""> not defined.</community>	A requested community name is not defined.
Set context to <nds context="" name=""></nds>	A <nds context="" name=""> has been set.</nds>



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Message	Description and Solutions
shutdown signal received. network service rebooting	Rebooting the network service.
smbd start. (NetBEUI)	An smbd (SMB (Server Message Block) service) has started.
SMTPC: failed to get smtp server ip-address.	 Failed to get the SMTP server IP address. This could be because: The DNS server could not be found. There is no connection to the network. The specified DNS server could not be connected to. Incorrect DNS server is specified. No specified SMTP server IP address in the DNS server.
SMTPC: failed to connect smtp server. timeout.	 Failed to connect the SMTP server due to timeout. This could be because: The SMTP server name is incorrect. There is no connection to the network. The network configuration is incorrect, so there is no response from the SMTP server.
SMTPC: refused connect by smtp server.	 The connection to the SMTP server is denied. This could be because: Another server other than the SMTP server has been specified. The SMTP server port number is incorrect.



Message	Description and Solutions
SMTPC: no smtp server. connection close.	No response from the SMTP protocol. Cannot connect to the SMTP server. This could be because:
	• Another server other than the SMTP server has been specified.
	• The SMTP server port number is incorrect.
SMTPC: failed to connect smtp server.	Failed to connect the SMTP server. This could be because:
	• There is no connection to the network.
	• The network configuration is incorrect, so there is no response from the SMTP server.
	• The SMTP server name is incorrect.
	• The specified SMTP server is incorrect.
	• There is no specified SMTP server IP address in the DNS server.
	• Another server other than the SMTP server has been specified.
	• The SMTP server port number is incorrect.
SMTPC: username or password wasn't correct.	Failed to connect the SMTP server. This could be because:
	• The specified SMTP user name is incorrect.
	• The specified SMTP password is incorrect.
	Check the SMTP user name and password.
Snmp over ip is ready.	Communication over TCP/IP 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.
Started.	The Rendezvous function is enabled.



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Message	Description and Solutions
Terminated.	The Rendezvous function is disabled.
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.
WINS name refresh :Server No Response	There 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 registration/refresh error code(errornumber)	Set NetBIOS 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</wins>	The printer name has been successfully registered in
Name= <netbios name=""></netbios>	<wins address="" server="">.</wins>
WINS wrong scopeID	The scope ID is wrong.
	Specify the correct scope ID.



When Using Windows Terminal Service/MetaFrame

Operating Environment

The following combinations of operating system and MetaFrame are supported:

Windows NT Server 4.0 Terminal Server Edition

- MetaFrame 1.8 SP3/FR1 SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/FR1

Windows 2000 Server /Advanced Server

- MetaFrame 1.8 SP3/FR1 SP3/SP4
- MetaFrame XP 1.0 SP1/SP2/FR1/FR2

Supported Printer Drivers

- When Windows Terminal Service is operating
 - PCL5c
 - PostScript 3

🔗 Note

- □ The RPCS printer driver is not supported.
- Some RPCS printer driver functions do not work if Windows Terminal Service is installed, even if it is not operating.

Limitation

The following restrictions apply in the Windows Terminal Service environment.

These restrictions are due to the way Windows Terminal Service or MetaFrame works.

When printing (Windows Terminal Service)

When printing a file containing a large number of bitmap images or fonts, some images or font settings may be lost. We strongly recommend testing this function under your network environment before applying it to actual jobs.



When using [Auto-creating client printers] (MetaFrame)

[Auto-creating client printers] can select a logical printer created by copying the client's local printer data to the MetaFrame server. We strongly recommend testing this function under your network environment before applying it to actual jobs.

- The settings for optional equipment will not be stored in the server after the equipment is disconnected. The settings for optional items will return to default values each time the client computer logs on to the server.
- When printing a large number of bitmap images or using the server in a WAN environment over dial-up lines such as ISDN, depending on the data rate, printing may be disabled or errors may occur.
- When using MetaFrame XP 1.0 or later versions, we recommend configuring [Client Printer bandwidth] available from [Citrix Management Console], according to the environment.

- If a printing error occurs on the server and the print job or **[Auto-creating client printers]** cannot be deleted, we recommend doing the following:
 - MetaFrame 1.8 SP3, MetaFrame XP 1.0 SP1/FR1

Configure the **[Delete unfinished print jobs]** settings in the registry. For more information, see the Readme file provided with MetaFrame.

- MetaFrame XP 1.0 FR2 Configure the [Delete pending print jobs at logout] settings in [Printer Properties Management] of the Citrix Management Console.
- When using [Printer driver replication] (MetaFrame)

[Printer driver replication] is designed to distribute printer drivers across all servers in a server farm. We strongly recommend testing this function under your network environment before applying it to actual jobs.

• If the printer drivers are not properly copied, we recommend installing them directly onto each server.



Cautions when using Bluetooth[™] Interface Unit

This machine's optional BluetoothTM interface unit operation mode, is set to **[public]** as default.

If the setting is changed to **[private]**, only registered computers can use this machine via BluetoothTM interface unit.

Make sure settings to the operation mode using Web Image Monitor or telnet.

🔑 Reference

See p.125 "Using a Web Browser" for Web Image Monitor. See Web Image Monitor Help for details about setting items.

See p.273 "Bluetooth™" for details about making operation mode settings using telnet.



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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.

- □ 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 p.166 "Printing a Configuration Page".
- 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.

Reference

For more information about selecting a Frame type, see p.89 "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.89 "Configuring the NetWare Protocol using the Control Panel".

PostScript Printing from Windows

When printing PostScript from Windows, see the PostScript 3 Supplement.



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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/XP, Windows Server 2003, 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/XP, Windows Server 2003, 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

This machine can be used in DHCP environment. In a WINS server environment, the printer name can simultaneously be registered with a WINS server.

When static IP addresses are set for each interface

- IP address: When set at the same value, the Ethernet interface is used.
- Subnet mask: When a value overlaps, the Ethernet interface is used.
- Gateway address: The value set is used. For the gateway address, set the gateway address located in the subnetwork set by the interface. Is a value is outside the subnet range set by the interface, it operates as "0.0.0.0".



When each setting is acquired from the DHCP server

• IP address, subnet mask: set for each value leased by the DHCP server operating on a connected interface. When overlapping IP addresses or identical IP addresses in the subnetwork are set at this time, only the highest priority active value is set for the interface.

🔗 Note

□ The default priority interface is Ethernet.

- AutoNet: An automatic private address (169.254. xxx.xxx) is set for high priority interfaces.
- Gateway address, DNS server address, domain name: Settings are made for the DHCP-acquired values that have the highest interface priority.

If the gateway address is outside the subnetwork range set by the interface, it operates as "0.0.0.0".

🔗 Note

□ The default priority interface is Ethernet.

When the settings of the static IP addresses and the DHCP acquired value overlap

- IP address, subnet mask: When the static IP address and DHCP-acquired value (IP address) are the same, or the static subnet mask value and DHCP-acquired subnet mask value overlap, the interface (strikethrough : setting) set by the static IP (strikethrough : use the) address is available using its value set. The interface set by DHCP is reset to the default.
- Gateway address: Uses the manually set value.
- When a gateway address is set outside the interface subnetwork range, it operates as "0.0.0.0".

🔗 Note

□ When the static IP address is not set, or is set as "0.0.0.0", the interface setting the DHCP acquisition value is activated.



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- Supported DHCP server operating systems are: Windows 2000 Server, Windows NT 4.0 Server Service Pack 4 or later, NetWare, and UNIX standard.
- □ The IP address acquired from DHCP can be checked on the configuration page. See p.166 "Printing a Configuration Page" printing the configuration page.
- □ When using WINS server, set the WINS server as shown on p.311 "Configuring a WINS Server".
- □ Under WINS server, host names can be used for remote network printer ports.
- If you do not use the WINS server, reserve the printer's IP address in the DHCP server so the same IP address is assigned every time.
- When there are multiple DHCP servers, make the same reservation for all. This machine operates on the information from the DHCP server that answered first.
- DHCP relay-agent is not supported. If you use DHCP relay-agent on an ISDN line network, it will incur 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.

You must change the setting to "on" to use AutoNet.

✓ Reference

See p.263 "AutoNet".

- The DHCP-assigned IP address for priority over that selected by AutoNet. As this machine reboots at this time, it is temporarily not able to print.
- □ You can confirm the current IP address on the configuration page. For more information about the configuration page, see p.166 "Printing a Configuration Page".
- □ When AutoNet is running, the printer name is not registered on the WINS server.
- □ No communication can take place except between units started up using AutoNet. However, communication can take place Macintosh machines running Mac OS X 10.2.3 or later versions.



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 SmartDeviceMonitor for Admin even under a DHCP environment.

This section describes how to configure the WINS server.

- □ 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 Enter "http: //(IP address of printer whose settings you want to change)/" in the address bar to access the printer whose settings you want to change. The Web Image Monitor Top Page appears. **B** Click [Administrator Mode]. The dialog box for entering the password and user name appears. 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** In the left area, click [Configuration], and then click [Network]. 6 Click [TCP/IP]. **2** Check [WINS] in the [Ethernet] column is [Active], and then enter the WINS server's IP address for both [Primary WINS Server] and [Secondary WINS Server]. 8 Click [Apply]. 9 Exit the Web browser. Using telnet

See p.261 "WINS"



Using the Dynamic DNS Function

Dynamic DNS is a function which dynamically updates (registers and deletes) records (A record and PTR record) managed by the DNS server. When a DNS server is part of the network environment to which this machine is connected and this machine is a DNS client, records can be dynamically updated using this function.

About processing updates

Updating procedure differs depending on whether the machine's IP address is static or acquired by DHCP.

🔗 Note

- When the dynamic DNS function is not used, if the IP address of this machine is changed, records managed by DNS server must be updated manually.
- **D** To update the record with this machine, the DNS server has to have either of the following:
 - No security settings made.
 - If security settings are made, an IP-specified client (this machine), that permits updating.

In the case of a static IP setting

If the IP address or host name is changed, this machine updates the A and PTR record. If the A record is registered, CNAME is registered also. CNAMEs that can be registered are as follows.

• Ethernet and IEEE 802.11b RNPXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)



For DHCP settings

As a substituting for this machine, the DHCP server updates the record, and one of the following occurs:

- When this machine acquires the IP address from the DHCP server, the DHCP server updates the A and PTR record.
- When this machine acquires the IP address from the DHCP server, this machine updates the A record, and the DHCP server updates the PTR record.

If the A record is registered, CNAME is registered also. CNAMEs that can be registered are as follows:

• Ethernet and IEEE 802.11b RNPXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

Limitation

□ Dynamic update using message authentication (TSIG, SIG(0)) is not supported.

DNS servers targeted for operation

For static IP setting

- Microsoft DNS server with standard Windows 2000 Server features
- BIND 8.2.3 or later

For DHCP setup, when this machine updates the A record

- Microsoft DNS server with standard Windows 2000 Server features
- BIND 8.2.3 or later

In the case of the DHCP setup, when the DHCP server updates records

- Microsoft DNS server with standard Windows 2000 Server features
- BIND 8.2.3 or later
- DNS server with standard NetWare 5 (or a later version) features



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DHCP servers targeted for operation

As a substitute for this machine, DHCP servers capable of updating the A record are as follows:

- Microsoft DHCP server with standard Windows 2000 Server (Service Pack 3 or later versions) features
- ISC DHCP 3.0 or later
- DHCP server with standard NetWare 5 features

Setting method of the dynamic DNS function

Make settings with telnet using the "dns" command. For details, see p.266 "DNS".



Spool Printing

With Spool Printing, the whole data of a print job is saved in the hard disk drive before printing. To use this function, set it from the menu. See p.186 "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 hard disk drive and be printed when the printer is turned on.

Limitation

- □ Spool Printing does not appear unless the optional hard disk drive is installed.
- Data that has been received in the protocol other than "diprint", "Ipr", "IPP", or "SMB" cannot be spooled.
- □ With "diprint", spool printing cannot take place using bi-directional communication.
- □ A maximum number of 150 jobs can be spooled.
- □ The capacity of the domain reserved for spool printing is about 1 GB.
- □ 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 one diprint job, 10 LPR jobs, one IPP job, and one SMB job can be spooled. Jobs exceeding the maximum number cannot be spooled. Wait until the number of spooled print jobs falls below the maximum before adding jobs.

- □ When "On" is selected, the first print will take time.
- With spool printing, the computer is freed from print processing earlier, even when processing a large amount of data.
- □ Spool jobs stored in the machine can be viewed or deleted using a Web browser.



Setting Spool Printing

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

- Using a Web browser
 In [System] on the [Configuration] menu, set [Spool Printing] to [Enable].
 For details, See Web Image Monitor Help.
- Using telnet

Type in "spoolsw spool on" to set Spool Printing. For more information, See p.259 "Job Spool".



Confirm or delete the spooled job from a Web browser

The spooled job can be viewed or deleted from a Web browser.

- **1** Start the Web browser.
- 2 Enter "http: //(IP address of printer whose settings you want to change)/" in the address bar to access the printer whose settings you want to change.

The Web Image Monitor Top Page appears.

B Click [Administrator Mode].

The dialog box for entering the password and user name appears.

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 [Job] on the menu displayed in the left frame.

A submenu will then appear.

6 Click [Spool Printing] on the [Printer] menu.

A list of spooled jobs appears.

To delete a job, select the check box of the job you want to delete, and then click [Delete]. The checked job is deleted.

8 Exit the Web browser.

🔑 Reference

For more information, see Web Image Monitor Help.



When Using IPP with SmartDeviceMonitor for Client

When using IPP with SmartDeviceMonitor for Client, note the following:

- The network printer can only receive one print job from SmartDeviceMonitor for Client at a time. While the network printer is printing, another user cannot access it until the job is finished. In this case, SmartDeviceMonitor for Client tries to access the network printer until the retry interval expires.
- If SmartDeviceMonitor for Client cannot access the network printer and times out, it will stop sending the print job. In this case, you should cancel the paused status from the print queue window. SmartDeviceMonitor for Client will resume access to the network printer. You can delete the print job from the print queue window, but canceling a print job printed by the network printer might cause the next job sent from another user to be incorrectly printed.

- If a print job sent from SmartDeviceMonitor for Client is interrupted and the network printer cancels the job because something went wrong, send the print job again.
- Print jobs sent from another computer do not appear in the print queue window, regardless of protocol.
- If various users send print jobs using Smart-DeviceMonitor for Client to network printers, the printing order might not be the same as that in which the jobs were sent.
- An IP address cannot be used for the IPP port name because the IP address is used for the SmartDeviceMonitor for Client port name.



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Memory Capacity and Paper Size

Print Quality	Paper Size	Non-Duplex Printing		Duplex Printing	
		Can be printed	Guaranteed	Can be printed	Guaranteed
	A4	128 MB (Standard)		128 MB (Standard)
600×600 dpi *1	A5			—	—
	Letter			128 MB (Standard)	
1,200×600 dpi *2	A4	128 MB (Standard)		128 MB	192 MB
				(Standard)	(Standard + 64 MB)
	A5			—	—
	Letter			128 MB	192 MB
	Letter			(Standard)	(Standard + 64 MB)

^{*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: [600 dpi] 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: [600 dpi] on [Resolution] and [Standard] on [Gradation]

🔑 Reference

For more information about how to set the printer driver, see printer driver's Help.

Important

□ In duplex printing, do not use A5 paper size.



Specifications

Mainframe

Configuration:

Desktop

Print Process:

Semiconductor laser beam scanning method Photo conductor 1 drum method

First Print Speed:

Monochrome: 14 sec or less $(A4 \square)$ Monochrome: 20 sec or less $(A4 \square)$

Printing Speed:

Monochrome: Maximum 31 pages per minute (A4 \square), Color: Maximum 8 pages per minute (A4 \square)

Resolution:

 600×600 dpi

Paper size:

See "Paper and Other Media, Maintenance Guide.

Paper Weight:

See "Paper and Other Media", Maintenance Guide.



♦ Media Type:

See "Paper and Other Media", Maintenance Guide.

Paper Output Capacity:

Standard 250 sheets (80 g/m² (20 lb.bond))

Paper Input Capacity:

Standard Paper Tray	250 sheet tray *1	
Optional Paper Feed Units	530 sheet paper tray ^{*1}	

^{*1} Paper weight: 80 g/m^2 (20 lb. bond)

Power Source:

220 - 240 V, 6A or less, 50 Hz

Power Consumption:

Printing	1,300 W or less (No power is used during power off.)
Energy Saver	15 W or less

♦ Warm-up Time:

Less than 45 seconds (22°C, 71.6 F) *1

*1 When no error.

Dimensions:

	Width	Depth	Height
Printer only (tray not extended)	480 mm (18.9 inches)	420 mm (16.5 inches)	385 mm (15.2 inches)



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♦ Weight:

Approximately 31.5 kg (69.4 lb) (toner cartridge and power cord included)

Noise Emission ^{*1}:

Sound Power Level

	Mainframe only
Stand-by	54 dB (A)
During Printing	66 dB (A)

Sound Pressure level *2

	Mainframe only
Stand by	46 dB (A)
During Printing	60 dB (A)

^{*1} The preceding measurements made in accordance with ISO7779 are actual values.

*2 Measured at the position of a bystander.

✤ Memory:

Standard 128 MB, up to 384 MB (with the optional Memory Unit)

♦ Interface:

Standard:

- Parallel (Bidirectional IEEE1284)
- Ethernet (10/100Base-TX)
- USB2.0 *1

^{*1} It requires a USB computer port and cable that support USB 2.0. Optional:

- IEEE 802.11b (Wireless LAN)
- BluetoothTM



Printer Language:

PCL 5c, RPCS, Adobe PostScript Level 3, PDF

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



Options

PAPER FEED UNIT Type 1000

Paper size:

A4 \square , Letter (8¹/₂×11) \square

The Dimensions (W \times D \times H):

 $460 \times 466.5 \times 185 \text{ mm} (18.1 \times 18.4 \times 7.3 \text{ inches})$

Paper weight:

60 - 105 g/m², (16 - 28 lb. bond)

♦ Weight:

Less than 6.0 kg (13.2 lb)



AD460

◆ Dimensions (W × D × H): 345 × 185 × 406 mm (13.6 × 7.3 × 16.0 inches)

🔗 Note

□ This option is built into the machine.

Paper size:

A4 \Box , Letter (8¹/₂×11) \Box

Paper weight:

60 - 105 g/m² (16 - 28 lb. bond)

♦ Weight:

Less than 5.2 kg (11.5 lb. bond)

Hard Disk Drive Type 2600

Storage Capacity (Formatted): 20 GB

Specifications:

- Spool print data to collate
- Spool Sample Print/Locked Print data
- Store PostScript fonts
- Store log data

🔗 Note

You can install PostScript fonts with this optional hard disk drive. With Mac OS, types of fonts supported are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.





Memory Unit Type C (64/128/256 MB)

Module Type:

SO-DIMM (Small Outline Dual-in-line Memory Module)

Memory Type:

SDRAM (Synchronous Dynamic RAM)

Number of Pins:

144 pins

IEEE 802.11b Interface Unit Type D

Transmission Spec.:

Based on IEEE 802.11b (Wireless LAN)

Protocol:

TCP/IP, NetBEUI, IPX/SPX, AppleTalk

🔗 Note

SmartDeviceMonitor and Web Image Monitor are supported.

Data Transfer Speed:

Auto select from below speed 1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps



Frequency Range:

- Inch version: 2412-2462 MHz (1-11 channels)
- Metric version: 2412-2472 MHz (1-13 channels)

Transmittable Distance:

- 1 Mbps 400 m \ast1
- 2 Mbps 270 m *1
- 5.5 Mbps 200 m *1
- 11 Mbps 140 m *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



Bluetooth Interface Unit Type 2238

Supported Profiles:

- SPP (Serial Port Profile)
- HCRP (Hardcopy Cable Replacement Profile)
- BIP (Basic Imaging Profile)

Frequency Range:

2 GHz ISM band

Data Transmission Speed:

732 kbps

🔗 Note

□ The transmission speed is adjusted according to factors such as the distance and obstacles between the devices, radio signal condition and Bluetooth[™] adaptor.

Maximum Range:

10 m



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