

Network Guide





- 1 Getting Started
- 2 Connecting and Setting Up
- **3** Using a Printer Server
- **4** Monitoring and Configuring the Printer
- 5 Special Operations under Windows
- 6 Appendix

Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Safety Information in the "General Settings Guide" before using the machine.

Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

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, 4.2 and IntranetWare.

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- 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 Professional Microsoft[®] Windows[®] 2000 Server Microsoft[®] Windows[®] 2000 Advanced Server
- The product names of Windows[®] XP are as follows: Microsoft[®] Windows[®] XP Home Edition Microsoft[®] Windows[®] XP Professional
- The product names of Windows Server[™] 2003 are as follows: Microsoft[®] Windows Server[™] 2003 Standard Edition Microsoft[®] Windows Server[™] 2003 Enterprise Edition Microsoft[®] Windows Server[™] 2003 Web Edition
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Manuals for This Machine

The following manuals describe the operational procedures of this machine. For particular functions, see the relevant parts of the manual.

🖉 Note

- □ Manuals provided are specific to machine type.
- □ Adobe Acrobat Reader is necessary to view the manuals as a PDF file.
- □ Two CD-ROMs are provided:
 - CD-ROM 1 "Operating Instructions for Printer/Scanner" CD-ROM 2 "Scanner Driver & Document Management Utilities"

✤ General Settings Guide

Provides an overview of the machine and describes System Settings (such as Tray Paper Settings), Document Server functions, and troubleshooting. Refer to this manual for Address Book procedures such as registering fax numbers, e-mail addresses, and user codes.

Security Reference

This manual is for administrators of this machine. It describes security functions that the administrators can use to protect data from being tampered, or prevent the machine from unauthorized use. Also refer to this manual for the procedures for registering administrators, as well as setting user and administrator authentication.

Network Guide (this manual)

Provides information about configuring and operating the printer in a network environment or using software. This manual covers all models, and therefore contains functions and settings that may not be available for your model.

Images, illustrations, functions, and supported operating systems may differ from those of your model.

Copy Reference

Describes operations, functions, and troubleshooting for the machine's copier function.

Facsimile Reference <Basic Features>

Describes operations, functions, and troubleshooting for the machine's facsimile function.

Facsimile Reference <Advanced Features>

Describes advanced facsimile functions such as line settings and procedures for registering IDs.

Printer Reference

Describes system settings, operations, functions, and troubleshooting for the machine's printer function.

Scanner Reference (PDF file - CD-ROM1)

Describes operations, functions, and troubleshooting for the machine's scanner function.

Manuals for DeskTopBinder

DeskTopBinder is a utility included on the CD-ROM labeled "Scanner Driver & Document Management Utilities".

- DeskTopBinder Lite Setup Guide (PDF file CD-ROM2) Describes installation of, and the operating environment for DeskTop-Binder Lite in detail. This guide can be displayed from the **[Setup]** dialog box when DeskTopBinder Lite is installed.
- DeskTopBinder Introduction Guide (PDF file CD-ROM2) Describes operations of DeskTopBinder Lite and provides an overview of its functions. This guide is added to the **[Start]** menu when DeskTopBinder Lite is installed.
- Auto Document Link Guide (PDF file CD-ROM2) Describes operations and functions of Auto Document Link installed with DeskTopBinder Lite. This guide is added to the **[Start]** menu when Desk-TopBinder Lite is installed.

Other manuals

- PS3 Supplement (PDF file CD-ROM1)
- UNIX Supplement (available from an authorized dealer, or as a PDF file on our Web site)

How to Read This Manual

Symbols

In this manual, the following symbols are used:

* The statements above are notes for your safety.

∰Important

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

Preparation

This symbol indicates prior knowledge or preparation is required before operation.

🔗 Note

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

Limitation

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

PReference

This symbol indicates a reference.

[

Keys that appear on the machine's display panel.

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

[

Keys built into the machine's control panel.

Keys on the computer's keyboard.

1. Getting Started

Functions Available over a Network

This machine provides printer, LAN-Fax, Internet Fax, and scanner functions over a network. Using the Document Server function, you can combine copied documents and print jobs into a single document. Not only can you print this document straight away, but you can also store it so it can be printed again whenever needed.

Printer

The network interface board is compatible with NetWare ^{*1} (IPX/SPX, TCP/IP), Windows NT 4.0 (TCP/IP, NetBEUI ^{*2}, IPP ^{*3}), Windows 2000 (TCP/IP, NetBEUI ^{*2}, IPP ^{*3}), Windows XP, Windows Server 2003 (TCP/IP, IPP ^{*3}), Windows 95/98/Me (TCP/IP, NetBEUI ^{*2}, IPP ^{*3}), UNIX (TCP/IP), and Mac OS (AppleTalk) protocols. This allows you to operate the machine in a network that uses different protocols and operating systems.

- ^{*1} If the optional 802.11b interface unit is installed, you can use only infrastructure mode.
- *2 For NetBEUI, use the SmartDevice-Monitor for Client port.
- ^{*3} IPP (Internet Printing Protocol) is a protocol for printing via the Internet.

Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see p.57 "Preparing Printer Server", or PostScript 3 Supplement.

Internet Fax

This machine converts scanned document images to e-mail format and transmits the data over the Internet.

Specify the e-mail address instead of the fax number, and then send the document.

E-mail can be received on a fax machine that supports Internet Fax, or on a computer that can receive normal e-mail.

You can also receive e-mails or Internet faxes, and then print or forward them.

🖉 Note

□ To use this function, optional fax unit is required.

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Using Internet Fax Functions", *Facsimile Reference <Basic Features>*.

LAN-Fax

You can fax documents over phone lines from any computer connected to the machine via Ethernet, IEEE 1394 (IP over 1394), or wireless LAN.

To send a fax, print from the Windows application you are working with, select LAN-Fax as the printer, and then specify the destination.

You can also check the sent image data.

🖉 Note

□ To use this function, optional fax unit is required.

✓ Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Sending Fax Documents from Computers", *Facsimile Reference <Advanced Features>*.

IP-Fax

You can send and receive fax documents through fax machines connected directly to the same network using the TCP/IP protocol. Specify the IP address or host name instead of the fax number and then send the document. If Gatekeeper is used, enter the alias telephone number to send the document.

No e-mail server is required, and transmission between IP-fax machine is faster than between G3 fax machine.

You can also check the sent image data.

🖉 Note

□ To use this function, optional fax unit is required.

℅ Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Internet Fax Functions (by Specifying an IP Address)", *Facsimile Reference <Basic Features>*.

E-mail

Scan file attached to an e-mail can be sent using the e-mail system through a LAN or the Internet.

Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Sending Scan Files by Email", *Scanner Reference*.

Scan to Folder

You can send scan file directly to shared folders on computers running Windows or to FTP servers.

Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Sending Scan Files by Scan to Folder", *Scanner Reference*.

Network Delivery Scanner

You can use the machine as a delivery scanner for the ScanRouter delivery software.

Scan file or document received by fax can be stored in the delivery server, or delivered via the network to specified folders on client computers.

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Delivering Scan Files", *Scanner Reference*.

Network TWAIN Scanner

You can use the scanning function of this machine from a computer connected via a network (Ethernet, IEEE 1394(IP over 1394), or IEEE 802.11b (wireless LAN)).

You can scan documents the same way you would if you were using a scanner connected directly to your computer.

₽ Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For details about using this function, see "Using the Network TWAIN Scanner Function", *Scanner Reference*.

Document Server

You can store copy, fax, printer, and scanner documents on the hard disk. Using DeskTopBinder Lite or a Web browser, you can browse, print, delete, or copy these documents over a network.

Reference

For details about what settings to make, see p.14 "Setting Up the Machine on a Network".

For more information about Document Server operation from the printer, see "Using the Document Server", *Printer Reference*.

For more information about Document Server operation from the facsimile, see "Using the Document Server", *Facsimile Reference <Advanced Features>*.

For more information about Document Server operation from the scanner, see "Using the Document Server", *Scanner Reference*.

For all information about Document Server operation, see "Using the Document Server", *General Settings Guide*.

For more information about Desk-TopBinder Lite, see the manuals for DeskTopBinder Lite.

2. Connecting and Setting Up

Confirming the Connection

When the IEEE 1394 interface board (optional) is installed.



When the wireless LAN board (optional) is installed.



1. 10BASE-T/100BASE-TX port

Port for connecting the 10BASE-T or 100BASE-TX cable

2. IEEE 1394 ports (optional)

Ports for connecting the IEEE 1394 interface cable

3. Wireless LAN port (optional)

Port for using the wireless LAN

🖉 Note

- The optional IEEE 1394 interface board and the IEEE 802.11b interface unit cannot be installed at the same time.
- The position of the port differ depending on the machine type.

Connecting to the Ethernet Interface

The network interface board supports 10BASE-T or 100BASE-TX connections.

ZZZ018S

∰Important

□ Before making the connection, touch the metallic part to ground yourself.

1 Turn off the main power switch.

∰Important

□ Make sure the main power is off. See "Turning On the Power", *General Settings Guide*.

2 Connect the Ethernet interface cable to the 10BASE-T/100BASE-TX port.



🖉 Note

□ The position of the port differ depending on the machine type.

3 Turn on the main power switch.



1. Indicator (green)

Remains green when the machine is properly connected to the network.

2. Indicator (yellow)

Turns yellow when 100 BASE-TX is operating. Turns off when 10 BASE-T is operating.

Connecting to the IEEE 1394 Interface

∰Important

Before making the connection, touch the metallic part to ground yourself.

🖉 Note

- □ Use the interface cable supplied with the optional IEEE 1394 interface board.
- □ Make sure the interface cable is not looped.
- **1** Turn off the main power switch.

∰Important

- □ Make sure the main power is off. See "Turning On the Power", *General Settings Guide*.
- **2** Connect the IEEE 1394 interface cable to the IEEE 1394 ports.



🖉 Note

- Two interface ports are available for connecting the IEEE 1394 interface cable. Either is suitable.
- If you have an interface cable with a ferrite core, connect the end nearest to the ferrite core to the machine.
- □ The position of the port differ depending on the machine type.
- **3** Turn on the main power switch.

Using the IEEE 802.11b (Wireless LAN)

Setting IEEE 802.11b (Wireless LAN)



🖉 Note

□ Select **[802.11 Ad hoc]** mode when connecting Windows XP as a wireless LAN client using Windows XP standard driver or utilities, or when not using the infrastructure mode.

Confirming the Connection

1 Make sure the LED of the IEEE 802.11b interface unit is lit.

When using in infrastructure mode



ZZZ024S

1

1. If [LAN Type] on the [Interface Settings]/[Network] screen is not set to [IEEE 802.11b], it does not light, even if the main power is on.

2. If it is connected properly to the network, the LED is green when in infrastructure mode. If the LED is blinking, the machine is searching for devices.

When using in ad hoc mode/802.11 ad hoc mode



ZZZ024S

1. If the IEEE 802.11b interface unit is working, it is lit in orange.

2. If it is connected properly to the network, the LED is green when in ad hoc mode or 802.11 ad hoc mode. If the LED is blinking, the machine is searching for devices. The LED will light after a few seconds.

2 Print the configuration page to verify settings.

For more information about printing a configuration page, see *Printer Reference*.

Checking the machine's radio wave status

When using in infrastructure mode, you can check the machine's radio wave status using the control panel.

🖉 Note

- □ To check the radio wave status, press [IEEE 802.11b] under [LAN Type] on the [Network] screen.
- Press the [User Tools/Counter/Inquiry] key.

2 Press [System Settings].

B Press [Interface Settings].

4 Press [IEEE 802.11b].

5 Press [Wireless LAN Signal].

The machine's radio wave status appears.

6 After checking radio wave status, press [Exit].

Press the [User Tools/Counter/Inquiry] key to return to the User Tools / Counter / Inquiry menu. 2

Setting Up the Machine on a Network

This section describes the network settings you can change with User Tools (System Settings). Make settings according to functions you want to use and the interface to be connected.

∰Important

□ These settings should be made by the systems administrator, or after consulting with the systems administrator.

✓ Reference

For details about settings, see p.37 "Interface Settings"

Viewing the Information Displayed in the List

These items must be set to use the function. Be sure to set them before attempting to use the corresponding function.
 These items must be set if required.

Printer/LAN-Fax

Interface	Settings		
Ethernet	Interface Settings/	IP Address	
	Network	Gateway Address	О
	DNS Configuration	О	
	DDNS Configuration	О	
		Domain Name	О
		WINS Configuration	О
		NW Frame Type	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	
		SMB Computer Name	О
		SMB Work Group	О
	Permit SNMP V3 Communication	О	
	Permit SSL / TLS Communication	О	
	Host Name	О	
		Machine Name	О

Interface	Settings		
IEEE 1394 (IP over 1394)	Interface Settings/ IEEE 1394 ^{*1} See p.39 "IEEE 1394".	IP Address	•
		IP over 1394	•
		WINS Configuration	О
		DDNS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/	Gateway Address	О
	Network	DNS Configuration	О
	See p.37 Network .	Effective Protocol *3	•
IEEE 802.11b	Interface Settings/	IP Address	•
(wireless LAN)	Network	Gateway Address	О
	See p.37 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		NW Frame Type	О
		LAN Type *2	
		Ethernet Speed	О
		Effective Protocol *3	
		SMB Computer Name	О
		SMB Work Group	О
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
		Machine Name	О
	Interface Settings/	Communication Mode	۲
	IEEE 802.11b *2 See p.41 "IEEE 802.11b".	SSID Setting	О
		Channel	О
		WEP (Encryption) Setting	О
		Transmission Speed	О

^{*1} Appears when the optional IEEE 1394 interface board is installed.
 ^{*2} Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and IEEE 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
 *3 Check [Effective] is selected for TCP/IP.

2

Internet Fax

Interface		Settings	
Ethernet	Interface Settings/	IP Address	
	Network See p.37 "Network".	Gateway Address	
		DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	
		Ethernet Speed	О
		Effective Protocol *5	
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	File Transfer	SMTP Server *3	
	See p.42 "File Trans-	SMTP Authentication	О
	ier.	POP before SMTP	О
		Reception Protocol *4	
		POP3 Setting *6	О
		Administrator's E-mail Address *8	О
		E-mail Communication Port *4 *7	
		E-mail Reception Interval	О
		Max. Reception E-mail Size	О
		E-mail Storage in Server	0
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	0
		E-mail Account *3 *4	
IEEE 1394	Interface Settings/	IP Address	
(IP over 1394)	IEEE 1394 *1	IP over 1394	
	See p.39 "IEEE 1394".	DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О

Interface	Settings		
IEEE 1394 (IP over 1394)	Interface Settings/ Network See p.37 "Network".	Gateway Address	●
		DNS Configuration	О
		Effective Protocol *5	
	File Transfer See p.42 "File Trans- fer".	SMTP Server *3	•
		SMTP Authentication	О
		POP before SMTP	О
		Reception Protocol *4	●
		POP3 Setting *6	О
		Administrator's E-mail Address *8	О
		E-mail Communication Port *4 *7	•
		E-mail Reception Interval	О
		Max. Reception E-mail Size	О
		E-mail Storage in Server	О
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	О
		E-mail Account *3 *4	
IEEE 802.11b	Interface Settings/ Network See p.37 "Network".	IP Address	●
(wireless LAN)		Gateway Address	
		DNS Configuration	О
		WINS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		LAN Type *2	\bullet
		Ethernet Speed	О
		Effective Protocol *5	
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	Interface Settings/ IEEE 802.11bDocument Server ^{*2} See p.41 "IEEE 802.11b".	Communication Mode	•
		SSID Setting	О
		Channel	О
		WEP (Encryption) Setting	О
		Transmission Speed	О

Interface		Settings	
IEEE 802.11b	File Transfer	SMTP Server *3	
(wireless LAN)	See p.42 "File Trans-	SMTP Authentication	О
		POP before SMTP	О
		Reception Protocol *4	•
		POP3 Setting *6	О
		Administrator's E-mail Address *8	О
		E-mail Communication Port *4 *7	•
		E-mail Reception Interval	О
		Max. Reception E-mail Size	О
		E-mail Storage in Server	О
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	О
		E-mail Account *3 *4	•

^{*1} Appears when the optional IEEE 1394 interface board is installed.

- ^{*2} Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
- *3 Minimum settings required to use transmission.
- ^{*4} Minimum settings required to use reception.

- ^{*8} If you select **[On]** for **[SMTP Authentication]**, select this function also.

IP-Fax

Interface		Settings	
Ethernet	Interface Settings/	IP Address	
	Network	Gateway Address	
	See p.57 Network .	DNS Configuration	۲
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type ^{*2}	
		Ethernet Speed	О
		Effective Protocol *3	٠
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
IEEE 1394	Interface Settings/	IP Address	
(IP over 1394)	IEEE 1394 *1	IP over 1394	۲
	See p.39 "IEEE 1394".	DDNS Configuration	
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/	Gateway Address	•
Network See p.37 '	Network	DNS Configuration	О
	ceep.or itemork .	Effective Protocol *3	

Interface		Settings	
IEEE 802.11b	Interface Settings/	IP Address	•
(wireless LAN)	Network	Gateway Address	•
	See p.57 Network .	DNS Configuration	•
		WINS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	•
	Permit SNMP V3 Communication	О	
	Permit SSL / TLS Communication	О	
		Host Name	О
In IE Se 80	Interface Settings/ IEEE 802.11b ^{*3}	Communication Mode	•
		SSID Setting	О
	802.11b".	Channel	О
		WEP (Encryption) Setting	О
		Transmission Speed	О

 ^{*1} Appears when the optional IEEE 1394 interface board is installed.
 ^{*2} Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
*3 Check[Effective] is selected for TCP/IP.

E-mail

Interface		Settings	
Ethernet	Interface Settings/	IP Address	•
	Network	Gateway Address	•
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	٠
		Ethernet Speed	О
		Effective Protocol *3	۲
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	File Transfer See p.42 "File Trans- fer".	SMTP Server	•
		SMTP Authentication	О
		POP before SMTP	О
		POP3 Setting *4	О
		Administrator's E-mail Address	О
		E-mail Communication Port *5	О
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

Interface		Settings	
IEEE 1394	Interface Settings/ IEEE 1394 *1	IP Address	•
(IP over 1394)		IP over 1394	•
	See p.39 "IEEE 1394".	DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/	Gateway Address	•
	Network See p.37 "Network".	DNS Configuration	О
		Effective Protocol *3	•
	File Transfer See p.42 "File Trans- fer".	SMTP Server	•
		SMTP Authentication	О
		POP before SMTP	О
		POP3 Setting *4	О
		Administrator's E-mail Address	О
		E-mail Communication Port *5	О
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

Interface		Settings	
IEEE 802.11b	Interface Settings/	IP Address	•
(wireless LAN)	Network See p.37 "Network".	Gateway Address	•
		DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	●
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	Interface Settings/ IEEE 802.11b *2 See p.41 "IEEE 802.11b".	Communication Mode	●
		SSID Setting	О
		Channel	О
		WEP (Encryption) Setting	О
		Transmission Speed	О
	File Transfer See p.42 "File Trans- fer".	SMTP Server	
		SMTP Authentication	О
		POP before SMTP	О
		POP3 Setting *4	О
		Administrator's Address	О
		E-mail Communication Port *5	О
		Program / Change / Delete E- mail Message	О
		Program / Change / Delete Subject	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

^{*1} Appears when the optional IEEE 1394 interface board is installed.

^{*2} Appears when the optional IEEE 802.11b interface unit is installed.

If Ethernet and 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.

- ^{*3} Check [Effective] is selected for TCP/IP.
- ^{*4} If you select [On] for [POP before SMTP], select this function as well.
 ^{*5} If you select [On] for [POP before SMTP], check the port number for [POP3].

Scan to Folder

Interface		Settings	
Ethernet	Interface Settings/	IP Address	
	Network	Gateway Address	•
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	
		Host Name	О
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
	File Transfer See p.42 "File Trans- fer".	Default User Name / Password (Send)	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О
IEEE 1394	Interface Settings/	IP Address	•
(IP over 1394)	IEEE 1394 ^{*1} See p.39 "IEEE 1394".	IP over 1394	•
		DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings	Gateway Address	•
	/Network	DNS Configuration	О
	See p.57 Network .	Effective Protocol *3	
	File Transfer See p.42 "File Trans-	Default User Name / Password (Send)	О
	fer".	Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

Interface		Settings	
IEEE 802.11b	Interface Settings/	IP Address	•
(wireless LAN)	Network	Gateway Address	\bullet
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	●
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	Interface Settings/	Communication Mode	•
	IEEE 802.11b *2	SSID Setting	О
	802.11b".	Channel	О
		WEP (Encryption) Setting	О
File Transfer See p.42 "File Trans- fer".		Transmission Speed	О
	Default User Name / Password (Send)	О	
	fer".	Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

*1 Appears when the optional IEEE 1394 interface board is installed.
 *2 Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and IEEE 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
 *3 Check [Effective] is selected for TCP/IP.

2

Network Delivery Scanner

Interface		Settings	
Ethernet	Interface Settings/	IP Address	
	Network	Gateway Address	О
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	●
		Ethernet Speed	О
		Effective Protocol *4	•
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	File Transfer See p.42 "File Trans- fer".	Delivery Option *3	О
		Fax RX File Transmission	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О
IEEE 1394	Interface Settings/	IP Address	\bullet
(IP over 1394)	IEEE 1394 ^{*1} See p.39 "IEEE 1394".	IP over 1394	
		DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/	Gateway Address	О
	Network See p 37 "Network"	DNS Configuration	О
	See p.57 Network .	Effective Protocol *4	
	File Transfer	Delivery Option *3	О
	See p.42 "File Trans- fer"	Fax RX File Transmission	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

Interface		Settings	
IEEE 802.11b	Interface Settings/	IP Address	
(wireless LAN)	Network	Gateway Address	О
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	●
		Ethernet Speed	О
		Effective Protocol *4	
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	Interface Settings/	Communication Mode	
	IEEE 802.11b *2	SSID Setting	О
	802.11b".	Channel	О
		WEP (Encryption) Setting	О
File Transfe See p.42 "Fi		Transmission Speed	О
	File Transfer	Delivery Option *3	О
	See p.42 "File Trans- fer"	Fax RX File Transmission	О
		Scanner Recall Interval Time	О
		Number of Scanner Recalls	О

*1 Appears when the optional IEEE 1394 interface board is installed.
 *2 Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and IEEE 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
 *3 When delivery option is set to [On], make sure the IP address is set.
 *4 Check IEthertical is colocted for TCP / IP.

^{*4} Check [Effective] is selected for TCP/IP.

Network TWAIN Scanner

Interface		Settings	
Ethernet	Interface Settings/	IP Address	•
	Network	Gateway Address	О
	See p.57 Network .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	•
		Ethernet Speed	О
		Effective Protocol *3	•
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
IEEE 1394	Interface Settings/	IP Address	
(IP over 1394)	IEEE 1394 *1	IP over 1394	•
	See p.39 TEEE 1394 .	DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/	Gateway Address	0
	Network See p.37 "Network"	DNS Configuration	0
	Dee p.o/ metwork .	Effective Protocol *3	•

Interface		Settings	
IEEE 802.11b	Interface Settings/	IP Address	۲
(wireless LAN)	Network	Gateway Address	О
See p.57 Network .	See p.57 Thetwork .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	
		Ethernet Speed	О
		Effective Protocol *3	٠
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
Interface Settings/ IEEE 802.11b ^{*2} See p.41 "IEEE 802.11b".	Interface Settings/	Communication Mode	•
	IEEE 802.11b ⁻²	SSID Setting	О
	802.11b".	Channel	0
		WEP (Encryption) Setting	О
		Transmission Speed	0

*1 Appears when the optional IEEE 1394 interface board is installed.
 *2 Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
 *3 Check [Effective] is selected for TCP/IP.

Document Server

Interface	Settings		
Ethernet	Interface Settings/ Network See p.37 "Network".	IP Address	\bullet
		Gateway Address	О
		DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	٠
		Ethernet Speed	О
		Effective Protocol *3	•
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
IEEE 1394 (IP over 1394)	Interface Settings/ IEEE 1394 ^{*1} See p.39 "IEEE 1394".	IP Address	•
		IP over 1394	•
		DDNS Configuration	О
		WINS Configuration	О
		Host Name	О
		Domain Name	О
	Interface Settings/ Network See p.37 "Network".	Gateway Address	О
		DNS Configuration	О
		Effective Protocol *3	
Interface		Settings	
----------------	----------------------------	--------------------------------	---
IEEE 802.11b	Interface Settings/	IP Address	۲
(wireless LAN)	Network	Gateway Address	О
	See p.57 Thetwork .	DNS Configuration	О
		DDNS Configuration	О
		Domain Name	О
		WINS Configuration	О
		LAN Type *2	
		Ethernet Speed	О
		Effective Protocol *3	٠
		Permit SNMP V3 Communication	О
		Permit SSL / TLS Communication	О
		Host Name	О
	Interface Settings/	Communication Mode	•
	IEEE 802.11b ⁻²	SSID Setting	О
	802.11b".	Channel	0
		WEP (Encryption) Setting	О
		Transmission Speed	0

^{*1} Appears when the optional IEEE 1394 interface board is installed.
 ^{*2} Appears when the optional IEEE 802.11b interface unit is installed. If Ethernet and IEEE 802.11b (wireless LAN) are both connected to the machine, the selected interface has priority.
 *3 Check [Effective] is selected for TCP/IP.

Network Configuration

Any change you make with User Tools remains in effect even if the main power switch or operation switch is turned off, or the **[Energy Saver]** or **[Clear Modes]** key is pressed.

Configuring the network using the control panel

🖉 Note

- Operations for System Settings are different from normal operations. After using User Tools, press the [User Tools/Counter/Inquiry] key to exit.
- When [User Authentication Management] is set, operations are not possible with the machine unless a valid user name and password is entered. For details about user authentication, consult administrator.

Press the [User Tools/Counter/Inquiry] key.

🖉 Note

- The machine will be offline during setting.
- **2** Press [System Settings].
- Press [Interface Settings] or [File Transfer].
- **4** Select the required menu, and then press the desired key.

Change settings by following the instructions on the display panel, and then press [OK].

🔗 Note

To cancel changes made to settings and return to theSystem Settings menu, press [Cancel].

6 Press [Exit].

Press the [User Tools/Counter/Inquiry] key.

🖉 Note

You can also exit by pressing [Exit] on the User Tools main menu.

Configuring the network using other utilities

As well as using the control panel to make network settings, utilities such as a Web Image Monitor and SmartDeviceMonitor for Admin can also be used. The following table shows available settings:

🖉 Note

- □ O Indicates machine settings can be changed.
- □ Indicates the setting cannot be changed from that device.

	Name	on the contro	ol panel		Web Image Monitor	SmartDe- viceMon- itor for Admin	telnet		
Interface	Network	IP Address	Auto-Obta	ain (DHCP)	О	О	О		
Settings			Specify	IP Address	О	О	О		
				Sub-net Mask	О	О	О		
		Gateway A	ddress		О	О	О		
		DNS	Auto-Obta	ain (DHCP)	О	-	О		
		Configu- ration	Configu- ration Specify	►DNS Server 1	О	-	О		
					►DNS Server 2	О	-	О	
				►DNS Server 3	О	-	О		
		DDNS Configuration			О	-	О		
		Domain	Auto-Obtain (DHCP)		О	-	О		
		N	Name	Name	Specify	► Do- main Name	О	-	О
		WINS Configu- ration	On	▶Prima- ry WINS Server	0	-	0		
				►Second- ary WINS Server	О	-	О		
				Scope ID	О	-	О		
			Off		О	-	О		

	Name o	on the contro		Web Image Monitor	SmartDe- viceMon- itor for Admin	telnet	
Interface	Network	Effective	TCP/IP		-	O *1	О
Settings		Protocol	Protocol NetWare SMB		О	O *2	О
					О	О	О
			AppleTalk		О	О	О
		NW	Auto Selec	t	О	-	О
		Frame Type	Type Ethernet II		О	-	О
		51	Ethernet 80	thernet 802.2		-	О
			Ethernet 802.3		О	-	0
		Ethernet SNAP		0	-	О	
	SI	SMB Computer Name		0	-	О	
	SMB Wo		rk Group		0	-	О
	Ethernet Sp	Ethernet Speed		-	-	-	
		LAN	Ethernet		0	-	0
	Туре	IEEE 802.1	IEEE 802.11b		-	О	
		Ping Command		-	-	-	
		Permit SNMP V3 Commu- nication	Encryption Only		-	-	О
			Encryption / Clear Text		-	-	-
		Permit	Ciphertext Only		-	-	-
		Commu-	Ciphertext Priority		-	-	-
		nication	Ciphertext / Clear Text		-	-	-
		Host Name	2		О	О	О
		Machine N	ame		О	-	О
	IEEE 1394	IP Address	Auto-Obta	in (DHCP)	О	-	О
			Specify	IP Address	0	-	0
				Sub-net Mask	О	-	О
		DDNS Cor	figuration	•	О	-	О
		Host Name	2		О	-	О

	Name o	on the contro	ol panel		Web Image Monitor	SmartDe- viceMon- itor for Admin	telnet		
Interface	IEEE 1394	Domain	Auto-Obta	in (DHCP)	О	-	-		
Settings		Name	Specify	Domain Name	О	-	0		
		WINS Configu- ration	On	Primary WINS Server	О	-	О		
					Second- ary WINS Server	О	-	О	
				Scope ID	О	-	0		
			Off		О	-	0		
		IP over	Active		О	-	0		
	SC	1394	Inactive		О	-	0		
		SCSI print (SBP-2) Bidirec- tional	Active		О	-	О		
			(SBP-2) Inactive		О	-	О		
			direc- Active		О	-	0		
	SC pri	SCSI print	Inactive		О	-	0		
	IEEE	Commu- nication Mode	Commu- 802.11 Ad hoc		О	-	0		
	802.116		Mode	Mode	Ad hoc		О	-	О
				Infrastruct	ure	О	-	О	
		SSID Settin	JID Setting		О	-	0		
		Channel			О	-	0		
		WEP (En-	WEP	Active	0	-	0		
		Setting		Inactive	О	-	0		
		0	Encryptior	ı	О	-	0		
		Wireless L	AN Signal		-	-	-		
		Transmis-	Auto		-	-	О		
		Speed	11Mbps Fixed		-	-	0		
		-	5.5Mbps Fi	ixed	-	-	О		
			2Mbps Fix	ed	-	-	О		
			1Mbps Fix	ed	-	-	О		
		Return to I	Defaults		-	-	-		
		Print List			-	-	-		

	Name on the control panel	Web Image Monitor	SmartDe- viceMon- itor for Admin	telnet
File	Delivery Option	-	-	-
Transfer	Capture Server IP Address	-	-	-
	Fax RX File Transmission	-	-	-
	SMTP Server	О	-	-
	SMTP Authentication	О	-	-
	POP before SMTP	О	-	-
	Reception Protocol	О	-	-
	POP3 Setting	О	-	-
	Administrator's E-mail Address	О	-	-
	E-mail Communication Port	О	-	-
	E-mail Reception Interval	О	-	-
	Max. Reception E-mail Size	О	-	-
	E-mail Storage in Server	О	-	-
	Default User Name / Password (Send)	О	-	-
	Program / Change / Delete E-mail Message	-	-	-
	Program / Change / Delete Subject	-	-	-
	Scanner Recall Interval Time	-	-	-
	Number of Scanner Recalls	-	-	-
	E-mail Account	-	-	-
	Auto Specify Sender Name	-	-	-

*1 You can make the TCP/IP settings if SmartDeviceMonitor for Admin is communicating with the machine using IPX/SPX.
 *2 You can make the IPX/SPX settings if SmartDeviceMonitor for Admin is communicating with the machine using TCP/IP.

Interface Settings

Network

IP Address

Before using this machine in the network environment, you must configure the IP address and subnet mask.

- Auto-Obtain (DHCP)
- Specify When you select [Specify], enter the [IP Address]and [Sub-net Mask] as "xxx.xxx.xxx"("x" indicates a number).
 - IP Address: 011.022.033.044
 - Sub-net Mask: 000.000.000.000

🖉 Note

- □ Default: *Auto-Obtain* (DHCP)
- If you use the interface for Ethernet and IEEE 1394 (IP over 1394) at the same time, settings must be made carefully. See p.139 "Using DHCP".
- □ If you install the optional IEEE 1394 interface board and use the IEEE 1394 interface, you must set the address of the domain, different from the **[IP Address]** of **[IEEE 1394]**. If you intend to set the address for the same domain, set a different value for the **[Sub-net Mask]**.
- □ When you select **[Specify]**, be sure not to set the same **[IP Ad-dress]** as that of another machines on the network.
- The physical address (MAC address) also appears.

Gateway Address

A gateway is a connection or interchange point between two networks. Configure the gateway address for the router or host computer used as a gateway.

• Gateway Address:000.000.000.000

🖉 Note

Default: 000.000.000.000

DNS Configuration

Make settings for the DNS server.

- Auto-Obtain (DHCP)
- Specify When you select **[Specify]**, enter the **[DNS Server]** IP address as "xxx.xxx.xxx.xxx"("x" indicates a number).
 - ► ►DNS Server 1:000.000.000.000
 - ►DNS Server 2:000.000.000
 - DNS Server 3:000.000.000

🖉 Note

□ Default: *Auto-Obtain* (DHCP)

DDNS Configuration

You can specify the DDNS settings.

- Active
- Inactive

Domain Name

You can specify the domain name.

- Auto-Obtain (DHCP)
- Specify
 - Domain Name

2

WINS Configuration

You can specify the WINS server settings.

• On

If **[On]** is selected, enter the **[►WINS Server]** IP address as "xxx.xxx.xxx.xxx"("x" indicates a number).

If DHCP is in use, specify the **[Scope ID]**.

- Primary WINS Server
- Secondary WINS Server
- Scope ID
- Off

Limitation

□ Enter a **[Scope ID]** using up to 31 alphanumeric characters.

🖉 Note

Default: Off

Effective Protocol

Select the protocol to use in the network.

- TCP/IP:Effective/Invalid
- NetWare:Effective/Invalid
- SMB:Effective/Invalid
- AppleTalk:Effective/Invalid

🖉 Note

Default: TCP/IP: Effective, Net-Ware: Effective, SMB: Effective, AppleTalk: Effective

✤ NW Frame Type

Select the frame type when you use NetWare.

- Auto Select
- Ethernet II
- Ethernet 802.2
- Ethernet 802.3
- Ethernet SNAP

🖉 Note

Default: Auto Select

SMB Computer Name

Specify the SMB computer name.

SMB Work Group

Specify the SMB work group.

Ethernet Speed

Set the access speed for networks. Select a speed that matches your network environment. **[Auto Select]** should usually be selected.

- Auto Select
- 100Mbps Full Duplex
- 100Mbps Half Duplex
- 10Mbps Full Duplex
- 10Mbps Half Duplex

🖉 Note

□ Default: Auto Select

LAN Type

When you have installed the optional IEEE 802.11b interface unit, select interface, IEEE 802.11b (wireless LAN) or Ethernet.

- Ethernet
- IEEE 802.11b

🖉 Note

- Default: Ethernet
- □ Appears when the optional IEEE 802.11b interface unit is installed.
- If Ethernet and IEEE 802.11b (wireless LAN) are both connected to the machine, the selected interface takes precedence.

Ping Command

Check the network connection with ping command using given IP address.

🖉 Note

- □ If you fail to connect to the network, check the following, and then retry the ping command.
 - Check TCP/IP of the printer is active.
 - Check that the machine with assigned IP address is connected to the network.
 - There is a possibility that same IP address is used for the specified equipment .

Permit SNMP V3 Communication

Set the encrypted communication of SNMP v3.

- Encryption Only
- Encryption / Clear Text

🖉 Note

If you set to [Encryption Only], you need to set password for the machine.

Permit SSL / TLS Communication

Set the encrypted communication of SSL/TLS.

- Ciphertext Only
- Ciphertext Priority
- Ciphertext / Clear Text

🖉 Note

- Default: Ciphertext Priority
- □ If you set to **[Encryption Only]**, you need to install the server authentification for the machine.

Host Name

Specify the host name.

Machine Name

Specify the machine name.

IEEE 1394

Preparation

You must install the optional IEEE 1394 interface board in the machine.

IP Address

When you connect the machine to a network using the IEEE 1394 interface, you must configure the IP address and subnet mask.

- Auto-Obtain (DHCP)
- Specify When you select [Specify], enter the [IP Address] and [Sub-net Mask] as "xxx.xxx.xxx.xxx"("x" indicates a number).
 - IP Address: 011.022.033.044
 - Sub-net Mask: 000.000.000.000

🖉 Note

- □ Default: *Auto-Obtain* (DHCP)
- If you use the interface for Ethernet and IEEE 1394 (IP over 1394) at the same time, settings must be made carefully. See p.139 "Using DHCP"
- When you use the IEEE 1394 interface on a network, you cannot use the Ethernet interface in the same domain. To use both interfaces in the same domain, set different values for the [Subnet Mask].
- □ The physical address (EUI-64) also appears.

DDNS Configuration

You can specify the DDNS settings.

- Active
- Inactive

Host Name

Specify the host name.

Domain Name

Make settings for the domain name.

- Auto-Obtain (DHCP)
- Specify
 - Domain Name

🖉 Note

Default: *Auto-Obtain* (DHCP)

WINS Configuration

You can specify the WINS server settings.

• On

If **[On]** is selected, specify the **[►WINS Server]** IP address as "xxx.xxx.xxx.xxx" ("xxx" indicates a number).

If DHCP is in use, specify the **[Scope ID]**.

- Primary WINS Server
- Secondary WINS Server
- Scope ID
- Off

Limitation

□ Enter **[Scope ID]** using up to 31 alphanumeric characters.

🖉 Note

Default: Off

IP over 1394

When you use the IP over 1394 function of the IEEE 1394 interface to connect the machine to the network, or you print from computer with the IP over 1394 driver, you must specify **[Active]** for **[IP over 1394]**.

- Active
- Inactive

Limitation

Printing with IP over 1394 is possible under Windows Me/XP and Windows Server 2003

🖉 Note

□ Default: *Active*

SCSI print (SBP-2)

When you print using the SCSI print client function supported by Windows 2000/XP, or Windows Server 2003, you must set **[SCSI print (SBP-2)]**.

- Active
- Inactive

Limitation

The IEEE 1394 interface can be used when Windows 2000 Service Pack 1 or later is installed. If the Service Pack is not installed, only one SCSI print device is connectable via 1394 bus.

🖉 Note

□ Default: *Active*

Bidirectional SCSI print

Specifies the printer's response mode etc. for status requests when using the IEEE 1394 interface.

- On
- Off

🖉 Note

- Default: On
- □ If this is set to **[Off]**, bidirectional communication will not work.

IEEE 802.11b

Preparation

You must install the optional IEEE 802.11b interface unit into the machine.

🖉 Note

□ Be sure to make all settings simultaneously.

Communication Mode

Specifies the communication mode of the wireless LAN.

- 802.11 Ad hoc
- Ad hoc
- Infrastructure

🖉 Note

Default: 802.11 Ad hoc

SSID Setting

Specifies SSID to distinguish the access point in infrastructure mode or 802.11 ad hoc mode.

Limitation

□ The characters that can be used are ASCII 0x20-0x7e (32 bytes).

🖉 Note

- □ Default: *blank* (ASSID)
- □ If blank is specified in 802.11b ad hoc mode or ad hoc mode, "ASSID" appears.

Channel

Specifies a channel when you select 802.11b ad hoc mode or ad hoc mode.

🖉 Note

- Default: 11
- The following channels are available:
 - Metric version: 1-13
 - Inch version: 1-11

WEP (Encryption) Setting

Specifies the encryption of the IEEE 802.11b (wireless LAN). If this is set to **[Active]**, you must enter the WEP key.

- ►WEP
 - Active
 - Inactive
 - ►Encryption 10 alphanumeric characters must be entered for 64 bit, 26 characters for 128 bit.

🖉 Note

Default: Inactive

Wireless LAN Signal

Shows the radio wave conditions of the access point connected in infrastructure mode.

🖉 Note

Radio wave status is displayed when you press [Wireless LAN Signal].

Transmission Speed

Specifies the communication speed of the IEEE 802.11b (wireless LAN).

- Auto
- 11Mbps Fixed
- 5.5Mbps Fixed
- 2Mbps Fixed
- 1Mbps Fixed

🖉 Note

Default: Auto

* Return to Defaults

You can return the IEEE 802.11b (wireless LAN) settings to their defaults.

- No
- Yes

Print List

You can check items related to the network in use.

Reference

For details about printing, see p.42 "Printing the Interface Settings".

Printing the Interface Settings

The configuration page shows the current network settings and network information.

Press the [User Tools/Counter/Inquiry] key.

2 Press [System Settings].

Press [Interface Settings].

- 4 Press [Print List].
- **5** Press the [Start] key.

The configuration page is printed.

6 Press [Exit].

Press the [User Tools/Counter/Inquiry] key.

🖉 Note

You can also exit by pressing [Exit] on the User Tools main menu.

File Transfer

Delivery Option

Enables or disables sending stored or scanned documents via the ScanRouter delivery software delivery server.

- On
 - Main Delivery Server IP Address
 - Sub Delivery Server IP Address
- Off

🖉 Note

- □ Default: Off
- Set this option when specifying whether or not to use the Scan-Router delivery software. If you do, you will have to re-register I/O devices in the ScanRouter delivery software.

Capture Server IP Address

Specify the capture server IP address.

🖉 Note

This setting appears when the media link board is installed, and that the capture function is being used by the ScanRouter delivery software.Set this option using the I/O device settings in the ScanRouter delivery software.

Fax RX File Transmission

- Setting per Line Specifies whether or not received fax documents are sent to the ScanRouter delivery software for each fax line.
 - Line 1: Deliver to Server/Do not Deliver
 - Line 2: Deliver to Server/Do not Deliver
 - E-mail: Deliver to Server/Do not Deliver
 - IP-Fax: Deliver to Server/Do not Deliver

🖉 Note

□ Default: *Do not Deliver*

- Print at Delivery Specifies whether or not received fax documents sent to the ScanRouter delivery software should also be printed at the same time.
 - Print
 - Do not Print

🖉 Note

Default: Do not Print

• File to Deliver

Specifies whether all received fax documents or only received fax documents that include delivery codes (documents with an ID and SUB/SEP code) are sent to the ScanRouter delivery software.

- File with Delivery Code
- All Files

🖉 Note

Default: All Files

- Delivery Failure File
 - Print File
 - Delete File

If a received fax document cannot be sent to the ScanRouter delivery software, it is stored in memory. To print a stored file, select **[Print File]**; to delete, select **[Delete File]**.

2

🖉 Note

- If the machine can send the data to the ScanRouter delivery software, it does so automatically.
- If you delete the data, you will not be able to distribute or print it.

SMTP Server

Specify the SMTP server name. If DNS is in use, enter the host name.

If DNS is not in use, enter the SMTP server IP address.

- Server Name
- Port No.:25

Limitation

Enter the [Server Name] using up to 127 alphanumeric characters. Spaces cannot be used.

🖉 Note

- □ Enter**[Port No.]** between 1 and 65535 using the number keys, and then press the **[⑦**]key.
- □ The SMTP server shares its port number with direct SMTP.

SMTP Authentication

You can configure SMTP authentication (PLAIN, LOGIN, CRAM-MD5, DIGEST-MD5).

Authentication prevents unauthorized access, by making users enter a user name and password when sending e-mail to the SMTP server.

• On

If the SMTP server requires authentication, set [SMTP Authentication] to [On], and then specify [User Name], [Password], and [▶Encryption].

- User Name
- E-mail Address
- Password
- Encryption Auto/On/Off
- Off

Limitation

- Enter [User Name] using up to 191 alphanumeric characters. Spaces cannot be used.
- Depending on the SMTP server type, "realm" must be specified. Add "@" after the user name, as in "user name@realm".
- □ Enter **[Password]** using up to 63 alphanumeric characters. Spaces cannot be used.
- Enter the user name and password to be set for [Administrator's E-mail Address] when using Internet Fax.

🔗 Note

- □ Default: Off
- □ [►Encryption]-[Auto]: If the authentication method is PLAIN, LOGIN, CRAM-MD5, or DI-GEST-MD5.
- □ [►Encryption]-[On]: If the authentication method is CRAM-MD5 or DIGEST-MD5.
- □ [►Encryption]-[Off]: If the authentication method is PLAIN, or LOGIN.

POP before SMTP

You can configure POP authentication (POP before SMTP).

Authentication prevents unauthorized access, by authenticating with the POP server before sending e-mail to the SMTP server.

• On

To enable POP server authentication before sending e-mail via the SMTP server, set **[POP before SMTP]** to **[On]**.

E-mail is sent to the SMTP server after the time specified for [▶Wait Time after Auth.] has elapsed.

- ▶ Wait Time after Auth.: 300msec
- User Name
- E-mail Address
- Password
- Off

Limitation

- Enter [User Name] using up to 63 alphanumeric characters. Spaces cannot be used.
- Enter [Password] using up to 63 alphanumeric characters. Spaces cannot be used.

🖉 Note

- □ Default: Off
- □ Using the number keys, you can set [►Wait Time after Auth.] from zero to 10,000 milliseconds, in increments of one millisecond.
- If you select [On], enter [Server Name] in [POP3 Setting]. Also, check the port number for [POP3] in [E-mail Communication Port].

Reception Protocol

Specify Reception Protocol for receiving Internet faxes.

- Off
- POP3
- SMTP

🖉 Note

□ Default: Off

POP3 Setting

Specify the POP3 **[Server Name]** for receiving Internet faxes.

The specified POP3 server name is used for **[POP before SMTP]**.

If DNS is in use, enter the host name.

If DNS is not in use, enter the POP3 or server IP address.

- Server Name
- Encryption
 - Auto
 - On
 - Off

Limitation

□ Enter POP3 **[Server Name]** using up to 127 alphanumeric characters. Spaces cannot be used.

🖉 Note

- Encryption-[Auto]: Password encryption is automatically set according to the POP server settings.
- □ ►Encryption-**[On]**: Encrypt password.
- □ ► Encryption-**[Off]**: Do not encrypt password.

Administrator's E-mail Address

On e-mailed scanned documents, if the sender is not specified this appears as the sender's address. This can be used as the sender with SMTP authentication for Internet Fax. If **[On]** is selected for **[SMTP Authentication]** be sure to enter the administrator's e-mail address here. This can be used as the destination for data transmission result cc emails, as well as the destination for data communication management e-mail.

Limitation

□ Enter up to 128 alphanumeric characters.

E-mail Communication Port

Specify the **[POP3]** port numbers for receiving Internet faxes. The specified POP3 port number is used for **[POP before SMTP]**.

• POP3: 110

🖉 Note

- Default: POP3/110
- Enter a port number between 1 and 65535 using the number keys, and then press the [#] key.

2

E-mail Reception Interval

Specify, in minutes, the time limit for receiving Internet faxes via POP3 or IMAP4 server.

- On: 15 minute(s)
- Off

2

🖉 Note

D Default: On/15 minute(s)

□ If **[On]** is selected, the number of times can be set from 1 to 1440 in increments of one minute, using the number keys.

Max. Reception E-mail Size Specify the [Max. Reception E-mail Size] for receiving Internet faxes.

🖉 Note

- □ Default: 2MB
- Using the number keys, enter a size from one to 50 MB in increments of one megabyte.

E-mail Storage in Server

You can specify whether or not to store received Internet fax e-mails on the POP3 or IMAP4 server.

- Off
- All
- Errors Only

🖉 Note

□ Default: Off

- Default User Name / Password (Send) You can specify the user name and password required when sending scan file directly to a shared folder on a computer running Windows, or to an FTP server.
 - SMB User Name
 - SMB Password
 - FTP User Name
 - FTP Password

Limitation

□ Enter up to 128 alphanumeric characters.

Program / Change / Delete E-mail Message

You can program, change, or delete the e-mail message used when sending an Internet fax or scan file as an attachment.

- Program / Change
- Delete

🖉 Note

- □ Enter a name using up to 20 alphanumeric characters.
- Enter up to five lines of text. Each line can consist of up to 80 alphanumeric characters.

Program / Change / Delete Subject

You can program, change, or delete the subject used when sending an Internet fax or scan file as an attachment.

- Program / Change
- Delete

🖉 Note

□ Enter a subject using up to 20 alphanumeric characters.

Scanner Recall Interval Time

Specifies the interval the machine waits before resending scan file, if they cannot be sent to the delivery server or mail server.

🖉 Note

- □ Default: 300 seconds
- The interval time can be set from 60 to 999 seconds in one second increments, using the number keys.
- □ This setting is for the scanner function.

Number of Scanner Recalls

Sets a maximum number of times scan file is resent to the delivery server or mail server.

• On: 3 time(s)

• Off

🖉 Note

- □ Default: On/3 time(s)
- □ If **[On]** is selected, the number of times can be set from 1 to 99 using the number keys.
- □ This setting is for the scanner function.

E-mail Account

Specify **[E-mail Address]**, **[User Name]**, and **[Password]** for receiving Internet faxes.

- Fax Mail Reception
 - E-mail Address
 - User Name
 - Password

Limitation

- Enter an e-mail address using up to 128 alphanumeric characters.
- □ Enter a user name using up to 64 alphanumeric characters.
- Enter a password using up to 64 alphanumeric characters.

Auto Specify Sender Name

Set name of the sender when sending an e-mail.

- On
 - Scanner: If the sender is not specified, the administrator's e-mail address is entered in the **[From:]** box. If the sender is specified, the specified e-mail address is entered in the **[From:]** box.
 - Fax: If the sender is not specified, the machine's e-mail address is entered in the [From:] box. If the machine's e-mail address is not set, or the e-mail address is not registered, the administrator's email address is entered in the [From:] box.
- Off
 - Scanner: If the sender is not specified, the e-mail cannot be sent. If the sender is specified, the specified e-mail address is entered in the **[From:]** box.
 - Fax: If the sender is not specified, the e-mail cannot be sent. If the sender is specified, the specified e-mail address is entered in the **[From:]** box.

Programming, changing, or deleting an e-mail message

Limitation

- Enter a name using up to 20 alphanumeric characters.
- Enter up to five lines of text. Each line can consist of up to 80 alphanumeric characters.
- Press the [User Tools/Counter/Inquiry] key.
- Press [System Settings].
- **3** Press [File Transfer].
- 4 Press [▼ Next].

The next screen appears.

5 Press [Program / Change / Delete Email Message].

Programming an e-mail message

Press [*Not programed].



Reference

For more information about entering text, see "Entering Text", *General Settings Guide*.

3 Press [OK].

Press [Edit], and then enter the text.

To start a new line, press **[OK]** to return to the e-mail message screen, and then press **[▼]** in **[Select Line to Edit:]**.

6 Press [OK].

The e-mail message screen appears.

6 Press [OK].

Changing an e-mail message

- Select the e-mail message to change.
- **2** If you want to change the subject, press [Change].
- **3** Change the subject, and then press [OK].
- **4** If you want to change the text, press [Edit].
- Series [▲] or [▼] to select the line to change.
- **6** Change the text, and then press [OK].
- Press [OK].

Deleting an e-mail message

1 Press [Delete].

2 Select the e-mail message to delete.

The confirmation message about deleting appears.

- **3** To delete the data, press [Yes].
- 6 Press [Exit].
- **7** Press [Exit].
- Press the [User Tools/Counter/Inquiry] key.
 - 🖉 Note
 - □ You can also exit by pressing **[Exit]** on the User Tools main menu.

Programming, changing, or deleting a subject

Limitation

□ Enter a subject using up to 20 alphanumeric characters.

🖉 Note

- □ [Urgent] and [High] are programmed as the e-mail subjects.
- Press the [User Tools/Counter/Inquiry] key.
- **2** Press [System Settings].

3 Press [File Transfer].

- 4 Press [▼Next]. The next screen appears.
- Press [Program / Change / Delete Subject].

Programming a subject

Press [*Not programed], and then enter the text.

For more information about entering text, see "Entering Text", *General Settings Guide*.

Press [OK].

Changing a subject

1 Select the subject to change.

2 Enter the text.

3 Press [OK].

Deleting a subject

- Press [Delete].
- **2** Select the subject to delete.

The confirmation message about deleting appears.

3 To delete the subject, press [Yes].

6 Press [Exit].

7 Press [Exit].

Press the [User Tools/Counter/Inquiry] key.

You can also exit by pressing **[Exit]** on the User Tools main menu.

LDAP Server Settings

Program the LDAP server to find up e-mail destinations in the LDAP server Address Book directly. This function is possible when sending scan files by e-mail using the scanner or fax function, or when entering authentication information.

Before using this function

To start an LDAP search, make sure that the items listed below are set. For other items, check your environment and make any necessary changes.

- Server Name
- Search Base
- Port No.
- Search Conditions
- Authentication method selection

🖉 Note

- For authentication method, select from [High Security], [On], or [Off].
- User Name/Password The settings above differ depending on server environment. Check your environment and make any necessary changes.

🖉 Note

- To use the LDAP server in Administrator Tools, select [On] under [LDAP Server].
- This function supports LDAP Version 2.0 and 3.0. Ver 2.0 does not support High Security authentication.

Program/Change/Delete LDAP Server

To enter Program/Change/Delete LDAP Server

- Press the [User Tools/Counter/Inquiry] key.
- **2** Press [System Settings].



- E Press [Administrator Tools], and then press [▼Next] twice.
- Press [Program / Change / Delete LDAP Server].

To program/change the LDAP server

1 Select the LDAP server you want to program or change.

When programming the server, select [*Not Programmed].



2 Set each item as necessary.

2

To finish programming/changing the LDAP Server



2 Press [Exit].



3 Press [Exit].

Press the [User Tools/Counter/Inquiry] key.

To delete the programmed LDAP server

Press [Delete].



2 Select the LDAP server you want to delete.

3 Press [Yes].



Programming the LDAP Server

To enter an identification name

Register a name for the LDAP server that will appear on the server selection screen of the LDAP search operation.

Press [Change] under [Identification Name].

Program / Change LDAP Serve	r	
 Identification Name 		Change
 Server Name 		Change
 Search Base 		Change
► Port No.	589 Change <default 389=""></default>	1/4
Use Secure Connection (S	SL) On Off	▼Nest
		Cancel I OK

2 Enter the server's identification name.

3 Press [OK].

To enter a server name

Register the LDAP server's host name or IP address.

- **1** Press [Change] under [Server Name].
- **2** Enter the LDAP server name.
- **3** Press [OK].

To enter the search base

Select a route folder defined by the LDAP server to start the search from e-mail addresses registered in the selected folder are search targets.

1 Press [Change] under [Search Base].

2 Enter the search base.

🖉 Note

□ For example, if the search target is the sales department of ABC company, enter "dc=sales department, o=ABC". (In this example, the description is for an active directory. "dc" is for the organization unit, and "o" is for the company.)

Search base registration may be required depending on your server environment. When registration is required, unspecified searches will result in error. Check you server environment and enter any required specifications.

Press [OK].

To enter a port number

Specify the port number for communicating with the LDAP server. Specify a port that is compliant with your environment.

Press [Change] under [Port No.].

2 Enter the port number using the number keys, and then press [#].

🖉 Note

- □ When SSL is set to **[On]**, the port number automatically changes to "689".
- □ This function supports the TLS v1, SSL v3 and v2.

To start SSL communication

Use SSL to communicate with the LDAP server.

Press [On].

🖉 Note

- □ To use SSL, the LDAP server must support SSL.
- □ When SSL is set to **[On]**, the port number automatically changes to "689".
- □ SSL setting must be enabled on this machine. For details, consult your network administrator.

To set authentication

To make a search request to the LDAP server, use the administrator account for authentication.

For details about the administrator account, see "To enter the user name and password".

1 Press [▼Next].



2 Press [On] or [High Security] under [Authentication].

J	AUG	15,2005 1	2:28A
I	Program / Change LDAP Server		
	Authentication High Security On Off		
		2/4	
	Connection Test		ev.
ll			

🖉 Note

- Authentication settings must comply with your server's authentication settings. Check your server settings before setting this machine.
- □ [High Security] is available only with LDAP Version 3.0.
- □ When [High Security] is selected, the administrator password is encrypted before it is sent to the network. When [On] is selected, the password is sent without encryption.

To enter the user name and password

When **[On]** or **[High Security]** is selected for the authentication setting, use the administrator account name and password. Do not enter the administrator account name and password when using authentication for each individual or each search.

1 Press [▼Next].

 Identification Name 		Change
 Server Name 		Change
 Search Base 		Change
► Part No.	389 Change	1/4
	<default:389></default:389>	A 710
Use Secure Connection (S	SL) On Off	▼Neo

2 Press [Change] under [User Name].

This NetBIOS name is alread	y in use. (308)	AUG 14,2005 11:50F
Program / Change LDAP Se	irver	
► Authentication	High Security On Off	
► User Name		Change
► Password	Change	
		∠/4 ▲Prev.
		Connection Test View
		Cancel

Enter the user name, and then press [OK].

🖉 Note

- Procedures for the user name setting differ depending on server environment. Check your server environment before making the setting.
 - Example setting procedures: Domain Name\User Name User Name@Domain Name CN=Name, OU=Department Name, DC=Server Name

Press [Change] under [Password].

Enter the password, and then press [OK].



🖉 Note

- □ The user name and password are required for administrator access to the LDAP server.
- You can set the user name and password in this machine's Address Book to allow individual authentication access to the LDAP server. Use Administrator Tools to select the user name and password you want to use. For details, see General Settings Guide.

To test the connection

Access the LDAP server to check the proper connection is established. Check authentication works according to the authentication settings.

Press [Connection Test].

A connection test is carried out.

2 Press [Exit].

- 🖉 Note
- □ If the connection test fails, check your settings and try again.
- This function does not check search conditions or the search base.

To set search conditions

You can enter an attribute as a typical search keyword. Using the entered attribute, the function searches the LDAP server's Address Book.

Press [▼Next]twice.

P	y updating it in Scanner Features.	AUG	15,2005	12:24AM
	Program / Change LDAP Server			
	 Identification Name 	Change]	ľ
	 Server Name 	Change]	
	 Search Base 	Change]	
	► Port No.	389 Change	1/4	Piev
	 Use Secure Connection (SSL) 	On Off	Ţ	Next
		Carc	el l	ок

2 Press [Change] for items you want to use as search conditions from the following: [Name], [E-mail Address], [Fax Number], [Company Name], and [Department Name].

South Conditions	Nome		Channe
- Search Conditions	1404110	u	Change
	E-mail Address	nail	Change
	FaxNumber	facsimileTelephoneNumber	Change
	Company Name	0	Change 3/4
	Department Name	ou	Change They.
			▼ FMERI

Enter the attribute you want to use when searching for e-mail addresses, and then press [OK].

🖉 Note

- The attribute value may change depending on the server environment. Check the attribute value complies with your server environment before setting it.
- You can leave items blank, but you cannot leave attributes blank when searching for e-mail addresses from the LDAP server Address Book.

To set search options

To search the LDAP server data using a keyword other than prepared keywords such as Name, E-mail Address, FAX Number, Company Name, and Department Name, specify the attribute for the keyword registered in your LDAP server, and the name to be displayed on the control panel during the search. For example, to search e-mail addresses by employee number, enter "employeeNo." in the Attribute field, and "Employee No." in the key display field.

Press [▼Next] three times.



2 Press [Change] under [Attribute].



Enter the attribute you want to use when searching for e-mail addresses, and then press [OK].

🖉 Note

The attribute value may change depending on the server environment. Check the attribute complies with your server environment before setting it.

Press [Change] under [Key Display].

5 Enter the key display, and then press [OK].

The registered "key display" appears as a keyword for searching LDAP.

Without key display registration

				27 JAN	2005	14107
Advanced Search	Enter the following details to search.					
Name		Include One of Words	Search Criteria			
E-mail Address		Include One of Words	Search Criteria			
Fax Number		Include One of Words	Search Criteria			
Company Name		Include One of Words	Search Criteria			
Department Name		Include One of Words	Search Criteria			
				Cancel		ж

• With key display registration

Jpdating the destination list of Delivery Server has failed.			27 JAN	2005	4:58
Advanced Search Enter the following details to search.					
Name	Include One of Words	Search Critteria			
E-mail Address	Include One of Words	Search Criteria			
Fax Number	Include One of Words	Search Criteria			
Company Name	Include One of Words	Search Criteria			
Department Name	Include One of Words	Search Critteria			
No	Include One of Words	Search Critteria			
			Cancel		

🖉 Note

The key does not appear on the search screen unless both "Attribute" and "Key Display" are registered. Make sure you register both to use the optional search.

3. Using a Printer Server

Preparing Printer Server

This section explains how to configure the machine as a Windows network printer. The machine is configured to enabling network clients to use it. When the network printer is connected via SmartDeviceMonitor for Client, you can set the printing notification function to notify clients of the results of their print jobs.

∰Important

Under Windows 2000, Windows XP Professional, or Windows Server 2003, to change printer properties in the [Printer] folder, you need Printer Management access authentication; under Windows NT 4.0, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

1 Open the [Printers] window from the [Start] menu.

The [Printers] window appears.

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

On the [Sharing] tab, click [Shared as:].

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

🖉 Note

□ If you have installed an alternative driver by selecting **[Shared as:]** during the printer driver installation, this step can be ignored.

Click [OK]. Close the printer properties.

Printing notification via SmartDeviceMonitor for Client

Follow the procedure below to configure the machine to use the printing notification function of SmartDevice-Monitor for Client.

Setting the print server

∰Important

Under Windows 2000, Windows XP Professional, or Windows Server 2003, to change printer properties in the [Printer] folder, you need Printer Management access authentication; under Windows NT 4.0, Full Control access authentication. Log on to the file server as an Administrator or member of the PowerUsers group.

From the [Start] button on the task bar, point to [Program], point to [SmartDeviceMonitor for Client], and then click [Print Server Settings].

The print server setting dialog box appears.

2 Select the [Notify Client of Printing] check box, and click [OK].

After print server setting is made, a dialog box appears. Confirm the dialog box content, and click **[OK]**.

Click **[Cancel]** to interrupt the procedure.

A dialog box appears for client setting. Click [OK].

The print server setting is complete. Each client must be set to receive print notification.

🖉 Note

- Current printing jobs restart from the beginning after the spooler pauses briefly.
- When the expansion function is not used, the function is automatically set as available.
- If you log on using an account that does not have Administrator privileges, the client may not be notified.

Setting a Client

From the [Start] button on the task bar, point to [Program], point to [SmartDeviceMonitor for Client], and then click [Setting Expansion Function].

A dialog box for setting the expansion function appears.

2 Select the [Use the expansion function] check box in [Notify Printing].

Select the [Notify when using the print server] check box.

Click [OK].

The dialog box for setting the expansion function closes. The client setting is completed.

🖉 Note

Set the printing notification function on the printer driver as well as on SmartDeviceMonitor for Client.

Using NetWare

This section describes the setting procedure for network printers in the NetWare environment. In the Net-Ware environment, you can connect the machine as a "print server" or "remote printer".

Setting procedure

- When using the machine as a print server
 - Installing SmartDeviceMonitor for Admin
 - Setting the network interface board.
 - ③ Turning the machine off and then back on.
- When using the machine as a remote printer
 - Installing SmartDeviceMonitor for Admin.
 - Setting the network interface board.
 - ③ Setting NetWare.
 - ④ Starting the print server.

🖉 Note

- This procedure assumes an environment is already prepared for normal NetWare running the printing service setting.
- □ The procedure is explained with the following example settings:
 - File server's nameCAREE
 - Print server's name ... PSERV
 - Printer's name ... R-PRN
 - Queue name ... R-QUEUE

Using SmartDeviceMonitor for Admin

To use the machine in a NetWare environment, use SmartDevice-Monitor for Admin to set the Net-Ware printing environment.

🖉 Note

- The NetWare Client provided by Novell is required to set the printing environment using SmartDeviceMonitor for Admin under the following environments:
 - NDS mode in Windows 95/ 98/Me
 - NDS or Bindery mode in Windows 2000/XP, Windows NT 4.0

Reference

For details about installing SmartDeviceMonitor for Admin, see p.77 "Installing Smart-DeviceMonitor for Admin".

Printers listed by SmartDeviceMonitor for Admin

SmartDeviceMonitor for Admin lists printers connected to the network. If you cannot identify the machine you want to configure, print configuration page, and then check the machine name.

Setting Up as a Print Server (NetWare 3.x)

Follow the procedure below to connect the machine as a print server using NetWare 3.x.

- Log on to the file server as a supervisor or supervisor equivalent.
- **2** Start NIB Setup Tool from the [Start] menu.
- Click [Wizard], and then click [OK].
- **4** Select a machine you want to configure.

3

- Enter the printer name in the [Device name:] box and a comment in the [Comment] box, and then click [Next].
- Select the [NetWare] check box, and then click [Next].
- Click [Bindery mode], enter the file server name in the [File Server Name:] box, and then click [Next].
 - In the **[File Server Name:]** box, enter the name of the file server in which a print server is created. You can also click **[Browse...]** to browse through available file servers.
- Enter the print server name in the [Print Server Name:] box, the printer name in the [Printer Name:] box, and the print queue name in the [Print Queue Name] box, and then click [Next].
 - In the **[Print Server Name:]** box, enter the name of the NetWare print server using up to 47 characters.
 - In the [Printer Name:] box, enter the name of the NetWare printer.
 - In the **[Print Queue Name]** box, enter the name of the print queue to be added to NetWare.

9 Check the settings, and then click [Next].

The settings are applied, and NIB Setup Tool quits.

U Turn the printer off and then on again.

🖉 Note

- To check that the configuration is made correctly, enter the following from the command prompt.
 - F:> USERLIST

- □ If the printer works as configured, the name of the print server appears as a connected user.
- □ If you cannot identify the printer you want to configure, check the printer name with the configuration page printed from the printer. For details about printing a configuration page, see Printer Reference.
- □ If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer.

Setting Up as a Print Server (NetWare 4.x, 5/5.1, 6/6.5)

Follow the procedure below to connect the printer as a print server using NetWare 4.x, NetWare 5/5.1, or NetWare 6/6.5.

∰Important

- □ When using the printer as a print server in NetWare 4.x, NetWare 5/5.1, or NetWare 6/6.5, set it to the NDS mode.
- □ When using NetWare 5/5.1 or NetWare 6/6.5, set the printer as a print server.
- **1** Log on to the file server as a supervisor or supervisor equivalent.
- 2 Start NIB Setup Tool on the [Start] menu.

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

4 Select a printer you want to configure.

3

- Enter the printer name in the [Device name:] box and a comment in the [Comment] box, and then click [Next].
- Select the [NetWare] check box, and then click [Next].
- Click [NDS mode], enter the file server name in the [File Server Name:] box, the NDS tree name in the [NDS Tree] box, and the context in the [NDS Context:] box, and then click [Next].

In the **[File Server Name:]** box, enter the name of the file server in which a print server is created. You can also click **[Browse...]** to browse through available file servers and NDS context names.

In the **[NDS Tree]** box, enter the name of the NDS tree in which a print server is created using up to 32 alphanumeric characters. Hyphens and underscores can also be used. You can also click **[Browse...]** to browse through available NDS trees.

For a context, object names are entered from the lowest object with each object separated by a period. For example, if you want to create a print server in NET under DS, enter "NET.DS".

- Enter the print server name in the [Print Server Name:] box, the printer name in the [Printer Name:] box, the print queue name in the [Print Queue Name] box, and the print queue volume in the [Print Queue Volume] box, and then click [Next].
 - In the **[Print Server Name:]** box, enter the name of the NetWare print server using up to 47 characters.
 - In the [Printer Name:] box, enter the name of the NetWare printer.
 - In [Print Queue Name] box, enter the print queue volume.
 - In **[Print Queue Volume]**, type the print queue volume. For a volume, object names are entered from the lowest object with each object separated by a period. You can also click **[Browse...]** to browse through available volumes.

9 Check the settings, and then click [Next].

The settings are applied, and NIB Setup Tool quits.

Turn the printer off and then on again.

🖉 Note

□ To check that the configuration is made correctly, enter the following from the command prompt.

F:> NLIST USER /A/B

□ If the printer works as configured, the name of the print server appears as a connected user.

- □ If you cannot identify the printer you want to configure, check the printer name with the configuration page printed from the printer. For details about printing a configuration page, see Printer Reference.
- □ If no printer names appear in the list, match the frame types of IPX/SPXs for the computer and printer. Use the **[Network]** dialog box of Windows to change the frame type of the computer.

Reference

When using the printer in a pure IP environment of Net-Ware 5/5.1 or NetWare 6.0, see p.62 "Using Pure IP in the Net-Ware 5/5.1 or 6/6.5 Environment".

Using Pure IP in the NetWare 5/5.1 or 6/6.5 Environment

Follow the procedure below to connect the printer as a print server in a pure IP environment of NetWare 5/5.1 or NetWare 6/6.5.

∰Important

- When creating a queued print server in a pure IP environment of Net-Ware 5/5.1 or NetWare 6/6.5, create a print queue on the file server using NetWare Administrator.
- This printer is not available as a remote printer for use in a pure IP environment.
- □ To use the printer in a pure IP environment, set it to TCP/IP.

Setting up using NIB Setup Tool

- Log on to the file server as an administrator or administrator equivalent.
- 2 Start NIB Setup Tool on the [Start] menu.
- Click [Property Sheet], and then click [OK].
- 4 Select a printer you want to configure.
- On the [NetWare] tab, Select [File Server Mode] or [NDS mode] in the [Logon Mode] area.

When **[File Server Mode]** is selected, the network connection is established based on the string entered in the **[File Server Name(F):]** box.

When **[NDS mode]** is selected, the network connection is established based on the string entered in the **[NDS Tree]** box.

- **1** In the [Print Server Name:] box, enter the name of the print server.
- In the [File Server Name:] box, enter the name of the file server in which a print server is created.

You can also click **[Browse...]** to browse through available file servers.

Enter the NDS tree name in the [NDS Tree] box.

Enter up to 32 alphanumeric characters. Hyphens and underscores can also be used.

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

You can also click **[Browse...]** to browse through available NDS trees and NDS contexts.

For a context, object names are entered from the lowest object with each object separated by a period. For example, if you want to create a print server in Net under DS, enter "NET.DS".



- In the [Print Server Operation Mode] area, click [As Print Server].
- Click [OK] to close the [NIB Setup Tool] dialog box.

Setting up using NWadmin

1 From Windows, start NWadmin.

For details about NWadmin, see the NetWare manuals.

- 2 Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Print Queue], and then click [OK].
- In the [Print Queue Name] box, enter the name of the print queue.
- In the [Print Queue Volume] box, click [Browse].
- **(**In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].

- Check the settings, and then click [Create].
- Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- In the [Printer name] box, enter the printer name
- Select the [Define additional properties] check box, and then click [Create].
- Click [Assignments], and then click [Add] in the [Assignments] area.
- In the [Available objects] box, click the queue you, and then click [OK].
- Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- Click [Manual load] in the [Communication type] area, and then click [OK].
- Check the settings, and then click [OK].
- Select a context specified using NIB Setup Tool, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Sever (Non NDPS)].
- In the [Print Server Name] box, enter the print server name.

Use the same print server name specified using NIB Setup Tool.

3

- Select the [Define additional properties] check box, and then click [Create].
- Click [Assignments], and then click [Add] in the [Assignments] area.
- In the [Available objects] box, click the queue you created, and then click [OK].
- Check the settings, and then click [OK].
- Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

To exit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

Setting Up as a Remote Printer (NetWare 3.x)

Follow the procedure below to use the printer as a remote printer under NetWare 3.x.

Setting up using NIB Setup Tool

- **1** Log on to the file server as a supervisor or supervisor equivalent.
- 2 Start NIB Setup Tool from [Start] menu.
- Click [Property Sheet], and then click [OK].
- 4 Select a printer you want to configure.

- On the [NetWare] tab, enter the name of the print server in the [Print Server Name:] box.
- **1** In the [File Server Name:] box, enter the name of the file server in which a print server is created.

You can also click **[Browse...]** to browse through available file servers.

U In the [Print Server Operation Mode] area, click [As Remote Printer].

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

Use the same printer number created in the print server.

- A confirmation message appears. Click [OK].
- 🔟 On the [NIB] menu, click [Exit].

Setting up using PCONSOLE

Enter "PCONSOLE" from the command prompt.

F:> PCONSOLE

2 Create a print queue.

When using the existing print queue, go to the procedure for creating a printer.

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

Press [Insert] key, and then enter a print queue name.

- Press [ESC] key to return to the [Available Options] menu.
- **5** Set up the network connection to a printer.

3

On the [Available Options] menu, click [Print Server Information], and then press the [ENTER] key.

To create a new print server, press the [INSERT] key, and then enter a print server name.

For a currently defined print server, select a print server in the **[Print Server]** list.

Use the same printer name specified using NIB Setup Tool.

From the [Print Server Information] menu, select [Print Server Configuration].

From the [Print Server Configuration] menu, select [Printer Configuration].

Select the printer indicated as [Not Installed].

Use the same printer number specified as the remote printer number using NIB Setup Tool.

To change the printer name, enter 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.

Press the [ESC] key, and then click [Yes] on the confirmation message.

- Press the [ESC] key to return to [Print Server Configuration Menu].
- **U** Assign print queues to the created printer.
- From [Print Server Configuration Menu], select [Queues Serviced By Printer].

- E Select the printer created.
- Press the [INSERT] key to select a queue serviced by the printer.

You can select several queues.

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

Following these steps, check that the queues are assigned.

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

22 Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

To quit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

🖉 Note

If the printer works as configured, the message "Waiting for job" appears.

Setting Up as a Remote Printer (NetWare 4.x, 5/5.1, 6/6.5)

Follow the procedure below to use the printer as a remote printer under NetWare 4.x, 5/5.1 and 6/6.5.

∰Important

- □ To use the printer as a remote printer under NetWare 4.x, 5/5.1, 6/6.5, set it to NDS mode.
- Do not use the printer as a remote printer when Pure IP is used.

Setting up using NIB Setup Tool

- Log on to the file server as an administrator or administrator equivalent.
- 2 Start NIB Setup Tool from [Start] menu.
- Click [Property Sheet], and then click [OK].
- 4 Select a printer you want to configure.
- Click [NetWare].
- In the [Logon Mode] area, click [File Server Mode] or [NDS mode].

If **[File Server Mode]** is selected, the network connection is established based on the string you entered.

If **[NDS mode]** is selected, the network connection is established based on the string you entered.

In the [Print Server Name(P):] box, enter the name of the print server.

Use the same print server name in NWadmin. Enter up to 47 alphanumeric characters. In the [File Server Name(F):] box, enter the name of the file server in which a print server is created.

You can also click **[Browse...]** to browse through available file servers. Enter up to 47 alphanumeric characters.

In the [NDS Tree(T):] box, enter the NDS tree name and create the file server.

You can also click **[Browse...]** to browse through available NDS trees and NDS contexts. Enter up to 32 alphanumeric characters. Hyphens and underscores can also be used.

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

Enter up to 127 alphanumeric characters.

For context, object names from Root are entered from the lowest object, with each object separated by a period. For example, to create a print server in the NETWORK object under the organization object DS of Root, enter "NET-WORK.DS".

In the [Print Server Option Mode] area, click [As Remote Printer(R)].

- In the [Remote Printer No.(N)] box, enter the printer number. Use the same printer number created.
- Click [OK] to close [NIB Setup Tool].
Setting up using NWadmin

1 From Windows, start NWadmin.

For details about NWadmin, see the NetWare manuals.

- 2 Set up the network connection to a print queue. Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- Let In the [Class of new object] box, click [Print Queue], and then click [OK].
- In the [Print Queue Name] box, enter the name of the print queue.
- In the [Print Queue Volume] box, click [Browse].
- In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- Check the settings, and then click [Create].
- Set up the network connection to a printer. Select the object in which the printer is located, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- In the [Printer name] box, enter the printer name
- Select the [Define additional properties] check box, and then click [Create].

- Assign print queues to the created printer. Click [Assignments], and then click [Add] in the [Assignments] area.
- In the [Available objects] box, click the queue you created, and then click [OK].
- Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- Click [Manual load] in the [Communication type] area, and then click [OK]. Check the settings, and then click [OK].
- Set up the network connection to a print server. Select a context specified using NIB Setup Tool, and then click [Create] on the [Object] menu.
- In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Sever (Non NDPS)].
- In the [Print Server Name:] box, enter the print server name.

Use the same print server name specified using NIB Setup Tool.

- E Select the [Define additional properties] check box, and then click [Create].
- Assign the printer to the created print server. Click [Assignments], and then click [Add] in the [Assignments] area.
- In the [Available objects] box, click the queue you created, and then click [OK].
- In the [Printers] area, click the printer you assigned, and then click [Printer Number]

Enter the printer number, and then click [OK]. Check the settings, and then click [OK].

Use the same printer number specified as the remote printer number using NIB Setup Tool.

Start the print server by entering the following from the console of the NetWare server.

If the print server is in operation, quit and restart it.

To exit

CAREE: unload pserver

To start

CAREE: load pserver print_server_name

4. Monitoring and Configuring the Printer

Using Web Image Monitor

Using Web Image Monitor, you can check the machine status and change settings.

Available operations

The following operations can be remotely performed using Web Image Monitor from a client computer.

- Displaying machine status or settings
- Checking the print job status or history
- Checking, modifying, printing, or deleting print jobs stored in the Document Server
- Interrupting currently printing jobs
- Resetting the printer
- Managing the Address Book
- Making machine settings
- Making network protocol settings
- Making security settings

Configuring the machine

To perform the operations from Web Image Monitor, TCP/IP is required. After the machine is configured to use TCP/IP, operations from Web Image Monitor become available.

Recommended Web browser

- Windows: Internet Explorer 5.5 SP1 or higher Netscape Navigator 7.0 or higher
- Mac OS: Netscape Navigator 7.0 or higher Safari 1.0 or higher

🖉 Note

- □ To use Netscape Navigator with Secured Sockets Layer (SSL: an encryption protocol), use Netscape Navigator 7.0 or higher.
- □ If the previous versions of the Web browser above are used or JavaScript and cookies are not enabled with the Web browser used, display and operation problems may occur.
- □ If you are using a proxy server, change the Web browser settings. Contact your network administrator for information about the settings.
- □ The previous page may not appear even after the back button of a Web browser is clicked. If this happens, click the refresh button of a Web browser.
- □ Updating the machine information is not automatically performed. Click **[Refresh]** in the display area to update the machine information.

Displaying Top Page

This section explains the Top Page and how to display Web Image Monitor.



2 Enter "http://(machine's address)/" in the address bar of a Web browser. Top Page of Web Image Monitor appears.

🖉 Note

- □ If the machine's host name has been registered on the DNS or WINS server, you can enter it. For details, see p.139 "Using DHCP".
- When setting SSL, a protocol for encrypted communication, under environment which server authentification is issued , enter "https://(machine's address)/".

Every Web Image Monitor page is divided into the following areas:



1. Header area

The link to help and dialog box for keyword search appears.

2. Menu area

The dialog box for switching to the user mode and administrator mode appears, and each mode's menu will be displayed.

If you select menu, it's content will be shown on the work area, or the sub area.

3. Display area

Displays the contents of the item selected in the menu area.

Machine information in the display area is not automatically updated. Click **[Refresh]** at the upper right in the display area to update the machine information. Click the Web browser's **[Refresh]** button to refresh the entire browser screen.

Machine status, network interface board names, and comments are displayed.

4. Help

Use Help to view or download Help file contents.

When user authentication is set

Login (using Web Image Monitor)

Follow the procedure below to log on when user authentication is set.

Click [Login].

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

For details about the user name and password, consult your network administrator.

🖉 Note

- □ For user code authentication, enter a user code in **[User Name]**, and then click **[OK]**.
- The procedure may differ depending on the Web browser used.

Log Off (using Web Image Monitor)

Click **[Logout]** to log off.

🖉 Note

□ When you log on and made the setting, always click **[Logout]**.

About Menu and Mode

There are two modes available with Web Image Monitor: user mode and administrator mode.

Displayed Items may differ depending on the machines.

About User Mode

In the user mode, machine status, settings, and print job status can be viewed, but the machine settings cannot be changed.



1. Status

Machine status, including the amount of remaining paper in paper trays and the amount of remaining toner, is displayed.

2. Job

Allows you to display list of Spooled print Job, Job History, Error Log, Locked Print and Sample Print jobs. This also perform or delete Locked Print and Sample print jobs.

3. Configuration

Display current machine and network settings, and download help files.

Administrator Mode

In the administrator mode, you can configure various machine settings.



1. Status

Machine status, including the amount of remaining paper in paper trays and the amount of remaining toner, is displayed.

2. Job

Allows you to display list of Spool Print Job, Job History, Error Log, Locked Print and Sample Print jobs. This also allows you to delete Spooled Print Job, Locked Print and Sample Print jobs.

3. Address Book

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

4. Configuration

Make system settings for the machine, interface settings, and security.

5. Reset Printer Job

Click to reset current print jobs and print jobs in queue. This button is located on Top Page.

6. Reset Device

Click to reset the printer. If a print job is being processed, the printer will be reset after the print job is completed. This button is located on Top Page.

Access in the Administrator Mode

Follow the procedure below to access Web Image Monitor in the administrator mode.

1 On Top Page, click [Login].

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

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

For details about the user name and password, consult your network administrator.

🖉 Note

- For user authentication, enter a login user name and password, and then click [OK].
- □ For user code authentication, enter a user code in **[User Name]**, and then click **[OK]**.

Displaying Web Image Monitor Help

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

 Viewing Help on our Web site Downloading Help to your computer

Downloading and Checking Help

You can download Help to your computer. 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, the contents of Help appear.
- By clicking "?", the Help icon in the display area, Help for the setting items in the display area appears.

Downloading Help

- **1** In the [OS] list, select the operating system.
- **2** In the [Language] list, select the language.
- **3** Click [Download].
- **4** Download Help by following the instructions on the screen.
- Store the downloaded compressed file in a location, and then decompress the file.

To view the downloaded Web Image Monitor Help, set the path to the location of the decompressed file.

Linking the URL of the Help File to the [Help] Button.

You can link the URL of the help file on a computer or Web server to the [Help] button.

1 Log on to Web Image Monitor in the administrator mode.

2 In the menu area, click [Configuration].

3 Click [Webpage].

4 In the [Help URL] box, enter the URL of the help file.

If you saved the help file to "C:\HELP\EN", enter "file://C:/ HELP/". For example, if you saved the file to a Web server, and the URL of the index file is "http:// a.b.c.d/HELP/EN/index.html", enter "http://a.b.c.d/HELP/".

5 Click [Apply].

Using SmartDeviceMonitor for Admin

Using SmartDeviceMonitor for Admin, you can monitor the network printers. Also, you can change the configuration of the network interface board using TCP/IP or IPX/SPX.

Protocol stack provided with Operating System

 Windows 95/98/Me TCP/IP IPX/SPX NetWare NetWare Client32 for Windows 95 IntraNetWare Client for Win-

dows 95 Novell Client for Windows 95/98/Me

- Windows 2000 TCP/IP IPX/SPX NetWare Novell Client for Windows NT/2000/XP
- Windows Server 2003 TCP/IP IPX/SPX
- Windows XP TCP/IP IPX/SPX Novell Client for Windows NT/2000/XP
- Windows NT 4.0 TCP/IP IPX/SPX Client Service for NetWare NetWare Client32 for Windows NT IntraNetWare Client for Windows NT Novell Client for Windows NT/2000/XP

Available operations

The following functions are available:

- Limits settings done from the control panel, and disables changes made to certain items.
- Enables selection of paper type loaded in the machine.
- Switches to, and comes out of Energy Saver mode.
- Checks information about printing, paper quantity, etc.
- Simultaneously monitors multiple printers. When there are many printers, you can create groups and classify printers to facilitate management.
- Checks the machine's network settings and detailed device information.
- Enables you to change the machine's network settings.
- You can check details of print jobs sent from a computer.
- Allows you to check job histories of printed, faxed (LAN-Fax), scanned, and photocopied documents identified by user codes.
- Allows selection of functions such as printing and scanning for each user code.
- Fax numbers and e-mail addresses stored in the machine can be changed and saved by computer.
- You can check each fax job history entry.
- You can make settings for and display the status changes of group devices.
- Using Address Management Tool, you can manage LAN-Fax numbers, user names for Scan to Folder, and addresses for sending and receiving Internet faxes.
- The e-mail sender's name and folder can be protected.

Installing SmartDeviceMonitor for Admin

Follow the procedure below to install SmartDeviceMonitor for Admin

1 Quit all applications currently running.

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

The installer starts.

🖉 Note

Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.

3 Select an interface language, and then click [OK].

The following languages are available: Czech, Danish, German, English, Spanish, French, Italian, Hungarian, Dutch, Norwegian, Polish, Portuguese, Finnish, Swedish, Chinese Simple and Chinese Traditional.

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

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

After reading through its contents, click **[l accept the agreement]** if you agree, and then click **[Next >]**.

6 Follow the instructions on the screen.

A message appears when the installation is complete.

Click [OK].

🖉 Note

If you are required to restart the computer after installing Smart-DeviceMonitor for Admin, restart the computer and continue the configuration.

Changing the Network Interface Board Configuration

Follow the procedure below to change the network interface board configuration using SmartDevice-Monitor for Admin.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)]. A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.
- In the list, select a machine whose configuration you want to change.

4 On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the user name and password for the Web Image Monitor administrator appears.

For details about the user name and password, consult your network administrator.

NIB Setup Tool starts when the network interface board is default. Click **[Web Browser]**, and then click **[OK]**.

5 Enter required setting items.

Configure settings using Web Image Monitor. For details, see p.69 "Using Web Image Monitor".

6 Quit Web Image Monitor.

2 Quit SmartDeviceMonitor for Admin.

Locking the Menus on the Machine's Control Panel

Follow the procedure below to lock the menus on the machine's control panel.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select a machine.

4 On the [Tools] menu, point to [Device Settings], and then click [Lock Operation Panel Menu].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

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

For details about the user name and password, consult your network administrator.

The **[System]** page of Web Image Monitor appears.

Select [Level 1] or [Level 2] in the [Protect Printer Operation Panel] list.

2 Click [Apply].

8 Quit Web Image Monitor.

Reference

For details about setting items, see Help in the **[General Settings]** on **[Configuration]** page.

Changing the Paper Type

Follow the procedure below to change the paper type.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

In the list, select a machine whose configuration you want to change.

4 On the [Tools] menu, point to [Device Settings], and then click [Select Paper Type].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

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

For details about the user name and password, consult your network administrator.

The **[Paper]** page appears.

6 Select a paper type in the [Paper Type] list for each tray.

7 Click [Apply].

8 Quit Web Image Monitor.

Reference

For details about setting items, see Help in the **[General Settings]** on **[Configuration]** page.

Managing User Information

Follow the procedure below to manage the user's information using SmartDeviceMonitor for Admin.

Prints jobs can be managed and functions restricted by user codes.

Starting User Management Tool

Follow the procedure below to start User Management Tool.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

In the list, select a machine you want to manage.

4 On the [Tools] menu, click [User Management Tool].

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

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

For details about the user name and password, consult your network administrator.

User Management Tool starts.

Reference

For details about User Management Tool, see SmartDevice-Monitor for Admin Help.

Displaying the Number of Sheets Printed

Follow the procedure below to display the number of sheets printed under each user code.

1 Start SmartDeviceMonitor for Admin User Information Management Tool.

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

The number of pages printed under each user code appears.

Click [Finish] on the [File] menu to quit User Management Tool.

Exporting the information about the number of pages printed

Follow the procedure below to export the information of the number of pages printed under each user code as a .csv file.

- **1** Start SmartDeviceMonitor for Admin User Information Management Tool.
- **2** Click the [User Page Count] tab of User Management Tool.
- On the [File] menu, click [Export User Statics List].
- 4 Specify the save location and file name, and then click [Save].
- **5** Click [Finish] on the [File] menu to quit User Management Tool.

Resetting the number of pages printed to 0.

Follow the procedure below to reset the number of pages printed under each user code to 0.



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

- **3** Click the user whose information you want to reset.
- 4 On the [Edit] menu, click [Reset User Counters].

Select the check box of the items you want to reset, and then click [OK].

A confirmation message appears.

Click [Yes].

The number of pages printed is reset to 0.

On the [Edit] menu, click [Apply Settings].

Changes are applied to information on the **[User Page Count]** tab.

8 Click [Finish] on the [File] menu to quit User Management Tool.

Restricting Functions

Follow the procedure below to restrict use of individual functions.

1 Start SmartDeviceMonitor for Admin User Information Management Tool.

2 On the [Edit] menu of User Management Tool, click [Restrict Access To Device].

Select the check box of the functions you want to restrict.

Click [OK].

A confirmation message appears.

5 Click [Yes].

The settings are applied.

Setting Applicable Functions to New Users

Follow the procedure below to add new users and set functions applicable to them.

1 Start SmartDeviceMonitor for Admin User Information Management Tool.

2 Click the [Access Control List] tab of User Management Tool.

3 On the [Edit] menu, click [Add New User].

4 Enter the user code and user name.

5 Select the check box of the functions applicable to the new user.

🖉 Note

If the check boxes are unavailable, there is no restriction to use that function. For details, see SmartDeviceMonitor for Admin Help.

Click [OK].

The new user is added.

On the [Edit] menu, click [Apply Settings].

The settings are applied.

8 Click [Finish] on the [File] menu to quit User Management Tool.

Reference

For details about setting restrictions, see SmartDeviceMonitor for Admin Help.

Configuring the Energy Saver Mode

Follow the procedure below to configure Energy Saver mode.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

Select the protocol of the machine whose configuration you want to change.

If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select the machine whose settings you want to make.

To make settings for all machines in the selected group, select no machine.

On the [Group] menu, point to [Energy Save Mode], point to [Set Individually] to make the settings for only the selected machine or point to [Set By Group] to make the settings for all machines in the selected group, and then click [On] or [Off].

5 Quit SmartDeviceMonitor for Admin.

PReference

For details about the setting value for Energy Saver mode, see SmartDeviceMonitor for Admin Help.

Setting a Password

Follow the procedure below to set a password.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

In the list, select a machine whose configuration you want to change.

4 On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Click **[Web Browser]**, and then click **[OK]**.

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

For details about the user name and password, consult your network administrator.

Top Page of Web Image Monitor appears.

6 Click [Configuration].

- **2** Click [Device Settings].
- 8 Click [Program/Change Administrator].
- 9 Click [Change].

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On the [New Password], enter a password.

Enter the same password in [Confirm Password].

- Click [OK].
- **Q**uit Web Image Monitor.
- B Quit SmartDeviceMonitor for Admin.

Checking the Machine Status

Follow the procedure below to check machine status.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

The status of machines is indicated by icons in the list.

🖉 Note

- For details about status icons, see SmartDeviceMonitor for Admin Help.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

To obtain status details, click the machine in the list, and then click [Open] on the [Device] menu.

The machine status appears in the dialog box.

4 Quit SmartDeviceMonitor for Admin.

🖉 Note

For details about items in the dialog box, see SmartDeviceMonitor for Admin Help.

Changing Names and Comments

Follow the procedure below to change the names and comments of the machine.

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select a machine in the list.

• On the [Tools] menu, click [NIB Setup Tool].

A Web browser opens and the dialog box for entering the password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Click **[Web Browser]**, and then click **[OK]**.

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

Top Page of Web Image Monitor appears.

For details about the user name and password, consult your network administrator.

6 Click [Configuration].

2 Click [Device Settings].

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8 On the [System] page, enter the device name in the [Device name:] box and a comment in the [Comment] box, and click [Apply].

- In the **[Device name:]** box, enter a device name on the machine using up to 31 characters.
- In the **[Comment]** box, enter a comment on the machine using up to 31 characters.

9 Click [OK].

🔟 Quit Web Image Monitor.

U Quit SmartDeviceMonitor for Admin.

Load Fax Journal

- **1** Start SmartDeviceMonitor for Admin.
- 2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

🖉 Note

- Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.
- **3** Select a machine.
- On the [Tools] menu, click [Load Fax Journal].

A Web browser opens and the dialog box for entering the user name and password for the Web Image Monitor administrator appears.

For details about the user name and password, consult your network administrator.

5 Check the Load Fax Journal area that appears in the Web Image Monitor.

For details, see Help in Load Fax Journal area.

Viewing and Deleting Spool **Print Jobs**



1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

Solution Note

- □ Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select a machine.

On the [Tools] menu, click [Spool Printing Job List(Printer)].

A Web browser opens and the dialog box for entering the user name and password for the Web Image Monitor administrator appears.

For details about the user name and password, consult your network administrator.

5 Check the Spool Printing Job List that appears in the Web Image Monitor.

To delete the Spool Printing Job, select the document you want to delete and then click [Delete].

Note 🖉

To display Spool Printing Job List, spool must be set to [Enable] on Web Image Monitor in advance.

✓ Reference

For details, see Help in Spool Printing Job List area.

Managing Address Information

1 Start SmartDeviceMonitor for Admin.

2 On the [Group] menu, point to [Search Device], and then click [TCP/IP], [IPX/SPX] or [TCP/IP(SNMPv3)].

A list of machines using the selected protocol appears.

Note 🖉

- □ Select the protocol of the machine whose configuration you want to change.
- □ If you are using TCP/IP SNMP v3, enter the user authentication.

3 Select a machine.

On the [Tools] menu, click [Address Management Tool].

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

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

Address Management Tool starts.

For details about the user name and password, consult your network administrator.

✓ Reference

For details, see Address Management Tool Help.

Using SmartDeviceMonitor for Client

To view the status of machines using SmartDeviceMonitor for Client, configure SmartDeviceMonitor for Client beforehand.

Monitoring Printers

Follow the procedure below to monitor the machine using SmartDevice-Monitor for Client.

1 Start SmartDeviceMonitor for Client.

The SmartDeviceMonitor for Client icon appears in the task tray.

- **2** Right-click the SmartDeviceMonitor for Client icon, and check that the machine appears on the popup menu.
- Click [Options...] on the pop-up menu if the machine does not appear on the pop-up menu.

The **[SmartDeviceMonitor for Client - Options]** dialog box appears.

Click the machine you want to monitor, and then select the [To Be Monitored] check box in the [Monitoring Information Settings] area.

🖉 Note

- To display the machine status in the task tray using the SmartDeviceMonitor for Client icon, select the [Displayed on Task Bar] check box.
- For details about status icons, see SmartDeviceMonitor for Client Help.

5 Click [OK].

The dialog box closes and the configured machine is monitored.

Checking the Machine Status

Follow the procedure below to check machine status using SmartDevice-Monitor for Client.

1 Start SmartDeviceMonitor for Client.

2 For status details, right-click the SmartDeviceMonitor for Client icon, and then click the machine.

The machine status appears in the dialog box.

🖉 Note

For details about items in the dialog box, see SmartDeviceMonitor for Client Help.

When Using IPP with SmartDeviceMonitor for Client

When using IPP with SmartDevice-Monitor 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 SmartDeviceMonitor 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.
- When setting SSL, a protocol for encrypted communication, under environment which server authentification is issued, enter "https://(machine's address)/". Internet Explorer must be installed on your computer. Use the highest version. Internet Explorer 6.0 or higher is recommended.
- If the [Security Alert] dialog box appears when accessing the machine using IPP to create or configure an IPP port, or when printing, install the certificate. To select the certificate store location when using Certificate Import Wizard, click [Place all certificates in the following store], and then click [Local Computer] under [Trusted Root Certification Authorities].

🖉 Note

For details about SSL settings, consult your network administrator.

Remote Maintenance by telnet

∰Important

- Remote Maintenance should be password-protected so that access is allowed to administrators only.
- The password is the same as the one of Web Image Monitor administrator. When the password is changed using "mshell", other passwords change also.
- □ Some command cannot be set depending on the model type.

Using telnet

Follow the procedure below to use telnet.

∰Important

Only one user at a time can log on to perform remote maintenance.

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

% telnet IP_address

2 Enter your user name and password.

For details about the user name and password, consult your network administrator.

🖉 Note

- □ For user authentication, enter a login user name and password, and then click **[OK]**.
- For user code authentication, enter a user code in [User Name], and then click [OK].

3 Enter a command.

4 Quit telnet.

msh> logout

The configuration message about saving the changes appears.

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

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

🖉 Note

- □ If the message "Can not write NVRAM information" appears, the changes are not saved. Repeat the procedure above.
- □ When the changes are saved, the network interface board is reset automatically with that changes.
- When the network interface board resets, the print job in print process will be printed. However, print jobs in queue will be canceled.

access

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

View settings

msh> access

Configuration

msh> access \Leftrightarrow range "startaddress 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

Access control initialization

msh> access flush

• Use the "flush" command to restore the default settings so that all access ranges become "0.0.0.0".

🖉 Note

- □ The access range restricts computers from use of the machine by IP address. If you do not need to restrict printing, make the setting "0.0.0.0".
- Valid ranges must be from lower (start address) to higher (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 from a restricted IP address.

appletalk

Use the "appletalk" command to view and configure Appletalk parameters.

View settings

msh> appletalk

- [2] means "active" and [0] means "inactive".
- The default is [2].

Changing PAP timeout configuration

msh> appletalk ptimeout value > 0

• Timeout value becomes effective.

msh> appletalk ptimeout value = 0

• Timeout value becomes ineffective.

autonet

Use the "autonet" command to configure AutoNet parameters.

View settings

The following command displays the current AutoNet settings:

msh> autonet

Configuration

You can configure AutoNet settings.

msh> autonet {on|off}

- {on} means "active" and {off} means "inactive".
- Current interface priority configuration display

msh> autonet priority

Interface priority configuration

msh> autonet priority "interface_name"

- You can give interface's AutoNet parameter priority.
- Priority settings are available when multiple interfaces are installed.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface config- ured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b inter- face

🖉 Note

If an interface is not selected, the current interface connection settings remain in effect.

btconfig

Use the "btconfig" command to make Bluetooth settings.

View settings

Bluetooth settings are displayed.

msh> btconfig

Mode settings

You can set the Bluetooth operation mode to {private} or {public}.

msh> btconfig {private | public}

• The default is {public}.

devicename

Use the "devicename" command to display and change the printer name.

View settings

msh> devicename

Printer name configuration

msh> devicename name
"string"

- Enter a printer name using up to 31 alphanumeric characters.
- Set single names for each printer.

Printer name initialization

msh> devicename clear name

• Reset the printer name to its default.

dhcp

Use the "dhcp" command to configure DHCP settings.

View settings

The following command displays the current DHCP settings.

msh> dhcp

Configuration

You can configure DHCP.

msh> dhcp "interface_name" {on|off}

- Click {on} to enable dhcp. Click {off} to disable DHCP.
- If the DNS server address and domain name are obtained from DHCP, be sure to click {on}.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface config- ured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b inter- face

 Current interface priority configuration display

msh> dhcp priority

Interface priority configuration

msh> dhcp priority
"interface_name"

- You can select which interface has DHCP parameter priority.
- Priority settings are available when multiple interfaces are installed.

DNS server address selection

msh> dhcp dnsaddr {dhcp | static}

- Specify whether to obtain the DNS server address from the DHCP server or use the address set by a user.
- To obtain the DNS server address from the DHCP server, specify "dhcp". To use the address set by a user, specify "static".

Domain name selection

msh> dhcp domainname {dhcp | static}

- Specify whether to obtain the domain name from the DNS server or use the domain name set by a user.
- To obtain the domain name from the DHCP server, specify "dhcp". To use the domain name set by a user, specify "static".

Reference

For details about DHCP functions, see p.139 "Using DHCP".

For details about setting the DNS server address, see p.92 "dns".

For details about setting the domain name, see p.93 "domainname".

diprint

The direct printing port enables direct printing from a network-connected computer.

Use the "diprint" command to change 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 on

- The "port" specifies the port number of the direct printing port.
- The "bidirect" setting indicates whether the direct printing port is bidirectional or not.

Setting timeout

msh> diprint timeout {30-65535}

- You can specify the timeout interval to use when the printer is expecting data from the network.
- The default is 300 seconds.

Setting bidirect

msh> diprint bidirect { on
 | off }

• You can specify whether the direct printing port is bidirectional or not.

dns

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

View settings

The following command displays current DNS settings:

msh> dns

DNS server configuration

The following command enables or disables the DNS server address:

msh> dns "number" server "server address"

The following command displays a configuration using the IP address 192.168.15.16 on a 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

msh> dns ``interface_name"
ddns {on|off}

- You can set the dynamic DNS function "active" or "inactive".
- {on} means "active" and {off} means "inactive".
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

 Specifying the record overlap operation

msh> dns overlap {update|add}

- You can specify operations performed when records overlap.
- update To delete old records and register new records.
- add To add new records and store the old records.
- When CNAME overlaps, it is always changed, irrespective of settings.

CNAME registration

msh> dns cname {on|off}

- You can specify whether to register CNAME.
- {on} means "active" and {off} means "inactive".
- The CNAME registered is the default name beginning with rnp. CNAME cannot be changed.

A records registration

msh> dns arecord {dhcp|own}

• {dhcp}

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

• {own}

To register an A record using the printer as the DNS client. The DNS server address and the domain name already designated are used for the registration.

Record updating interval settings

msh> dns interval "time"

- You can specify the interval after which records are updated when using the dynamic DNS function.
- The updating interval is specified hourly. It can be entered between 1 and 255 hours.
- The default is 24 hours.

domainname

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

You can configure the Ethernet interface, IEEE 1394 interface, or IEEE 802.11b interface.

View settings

The following command displays the current domain name:

msh> domainname

Interface domain configuration

msh> domainname "interface_
name"

Setting the Domain Name

msh> domainname "interface_ name" name "domain name"

- A domain name can be entered using up to 63 alphanumeric characters.
- The Ethernet interface and IEEE 802.11b interface will have the same domain name.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface	Interface set
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b inter- face

Deleting the Domain Name

msh> domainname "interface_
name" clear name

help

Use the "help" command to display the available command list and the procedures for using those commands.

Command list display

msh> help

Display of procedure for using commands

msh> help "command_name"

hostname

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

View settings

msh> hostname

Configuration

```
msh> hostname "interface_
name " "printer_name"
```

- Enter the printer name using up to 63 alphanumeric 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.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface config- ured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

 Initializing the printer name for each interface

```
msh> hostname "interface_
name" clear name
```

ifconfig

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

View settings

msh> ifconfig

Configuration

msh> ifconfig "interface_ name" "parameter" "address"

- If you did not enter an interface name, it is automatically set to the Ethernet interface.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet Interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

Netmask configuration

msh> ifconfig "interface_ name" netmask "address"

Broadcast address configuration

```
msh> ifconfig "interface_
name" broadcast "address"
```

Changing the Interface

msh> ifconfig "interface" up

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

You cannot specify the IEEE 1394 interface.

The following explains how to configure an IP address 192.168.15.16 on Ethernet interface.

msh> ifconfig ether 192.168. 15.16

The following explains how to configure a subnet mask 255.255.255.0 on Ethernet interface.

msh> ifconfig ether netmask 255.255.255.0

🖉 Note

- □ To get the above addresses, contact your network administrator.
- □ Use the default configuration if you cannot obtain setting addresses.
- □ The IP address, subnet mask and broadcast address are the same as that for the ethernet interface and IEEE 802.11b interface.
- When installing the optional 1394 Interface board, set the IP address and subnet mask so that it does not overlap with the ethernet interface or the IEEE 1394 interface.
- TCP/IP configuration is the same for both Ethernet and IEEE 802.11b interface. If interfaces are changed, the new interface inherits the configuration.
- □ Use "0x" as the initial two letters of a hexadecimal address.

info

Use the "info" command to display printer information such as paper tray, output tray, and printer language.

Printer information display

msh> info

For details about displayed contents, see p.112 "Getting Printer Information over the Network".

ipp

Use the "ipp" command to configure IPP settings.

Viewing settings

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 tries to send print jobs when no connection can be made to the network printer.
- The "auth" setting indicates the user authorization mode.

IPP timeout configuration

Specify how many seconds the computer waits before canceling an interrupted print job. The time can be entered between 30 to 65535 seconds.

msh> ipp timeout {30 -65535}

IPP user authorization configuration

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

msh> ipp auth {basic|digest|off}

- User authorization settings are "basic" and "digest".
- Use "off" to remove a user's authorization.
- If user authorization is specified, register a user name. You can register up to 10 users.

IPP user configuration

Use the following command:

msh> ipp user The following message appears:

msh> Input user number (1
to 10):

Enter 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.

netware

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

Netware Printer Server Names

msh> netware pname

• Enter the NetWare print server name using up to 47 characters.

Netware File Server Names

msh> netware fname

• Enter the NetWare file server name using up to 47 characters.

Encap type

msh> netware encap
{802.3|802.2|snap|etherne
t2|auto}

Remote Printer Number

msh> netware rnum

Timeout

msh> netware timeout

Printer server mode

msh> netware mode pserver
msh> netware mode ps

Remote printer mode

msh> netware mode rprinter
msh> netware mode rp

NDS context name

msh> netware context

SAP interval

msh> netware "sap_interval"

- Setting login mode for file server msh> netware login server
- Setting login mode for NDS tree msh> netware login tree
- Setting login mode for NDS tree name msh> netware tree "NDS name"

passwd

Use the "passwd" command to change the remote maintenance password.

Changing the Password

msh> passwd

- Enter the current password.
- Enter the new password.
- Enter the new password once again.

🖉 Note

- □ Be sure not to forget or lose the password.
- The password can be entered using up to 32 alphanumeric characters. Passwords are case-sensitive. For example, "R" is not the same as "r".

prnlog

Use the "prnlog" command to obtain printer log information.

Print logs display

msh> prnlog

• Displays 16 previous print jobs.

msh> prnlog "ID Number"

• Specify the ID number of the displayed print log information to display additional details about a print job.

🖉 Note

□ For details about displayed contents, see p.112 "Getting Printer Information over the Network".

rendezvous

Use the "rendezvous" command to display rendezvous-related settings.

View settings

Rendezvous settings are displayed.

msh> rendezvous

Current computer name display

msh> rendezvous cname

 Display information about the current printer location

msh> rendezvous location

Rendezvous computer name setting You can specify the rendezvous

computer name.

msh> rendezvous cname
"computer name"

• The computer name can be entered using up to 63 alphanumeric characters.

rendezvous Installation location information setting

You can enter information about the location where the printer is installed.

msh> rendezvous location "location"

• Information about location can be entered using up to 32 alphanumeric characters.

- Setting order of priority for each protocol
 - diprint

msh> rendezvous diprint {0-99}

- lpr
 msh> rendezvous lpr {0-99}
- ipp

msh> rendezvous ipp {0-99}

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

IP TTL setting

msh> rendezvous ipttl {1255}

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

🖉 Note

□ The default 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 computer name will be displayed when the computer is
- location

restarted.

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

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Interface configuration

msh> rendezvous linklocal "interface_name"

- If many types of interface are installed, configure the interface that communicates with linklocal address.
- If you do not specify an interface, the Ethernet interface is automatically selected.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface	Interface configured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

route

Use the "route" command to control the routing table.

All route information display

msh> route

Specified route information display

```
msh> route "destination"
```

- Specify the IP address to destination.
- Enabling/disabling Specified Destination

```
msh> route active {host|net}
"destination" {on | off}
```

• You can turn the specified destination on or off. Host becomes the default setting. Adding Routing Table

msh> route add {host|net} "destination" "gateway"

- Adds a host or network route to "destination", and a gateway address to "gateway" in the table.
- Specify the IP address to destination and gateway.
- Host becomes the default setting.

Setting Default Gateway

msh> route add default "gateway"

 Deleting Specified destination from Routing Table

msh> route delete {host|net}
"destination"

- Host becomes the default setting.
- IP address of destination can be specified.

Route Flush

msh> route flush

🖉 Note

- □ The maximum number of routing tables is 16.
- Set a gateway address when communicating with devices on an external network.
- □ The same gateway address is shared by all interfaces.

set

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

View settings

The following command displays protocol information (active/inac-tive).

msh> set tcpip

msh> set appletalk

msh> set netware

msh> set smb

msh> set scsiprint

• scsiprint is available when the optional IEEE 1394 interface board is installed.

msh> set ip1394

• ip1394 can be specified only when the IEEE 1394 interface is installed.

msh> set protocol

• When protocol is specified, information about TCP/IP, appletalk, netware, and smb appears.

msh>	set	lpr
msh>	set	ftp
msh>	set	rsh
msh>	set	diprint
msh>	set	web
msh>	set	snmp
msh>	set	ssl
msh>	set	nrs
msh>	set	rfu
msh>	set	ipp
msh>	set	http
msh>	set	rendezvous

Configuration

• Enter "up"to enable protocol, and enter "down" to disable protocol.

You can set the protocol to "active" or "inactive".

msh> set tcpip {up | down}

- If you disable TCP/IP, you cannot use remote access after logging off. If you did this by mistake, you can use the control panel to enable remote access via TCP/IP.
- Disabling TCP/IP also disables ip1394, lpr, ftp, rsh, diprint, web, snmp, ssl, ipp, http, and rendezvous

msh> set appletalk {up | down}
msh> set netware {up | down}
msh> set smb {up | down}
msh> set scsiprint {up | down}

• scsiprint is available when the optional IEEE 1394 interface board is installed.

msh> set ip1394 {up | down}

• ip1394 can be specified only when the IEEE 1394 interface is installed.

```
msh> set lpr {up | down}
msh> set ftp {up | down}
msh> set rsh {up | down}
msh> set rsh {up | down}
msh> set diprint {up | down}
msh> set web {up | down}
msh> set snmp {up | down}
msh> set ssl {up | down}
```

• If Secured Sockets Layer (SSL, an encryption protocol) function is not available for the printer, you cannot use the function by enabling it.

```
msh> set nrs {up | down}
msh> set rfu {up | down}
msh> set ipp {up | down}
msh> set http {up | down}
msh> set rendezvous {up | down}
```

show

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

View settings

msh> show

• If "-p" is added, you can view settings one by one.

✓ Reference

For details about the information displayed, see p.122 "Configuring the Network Interface Board".

slp

Use "slp" command to configure SLP settings.

```
msh> slp ttl "ttl_val"
```

- You can search the NetWare server using SLP in the PureIP environment of NetWare 5/5.1 and Netware 6/6.5. Using the "slp" command, you can configure the value of TTL which can be used by SLP multicast packet.
- The default value of TTL is 1. A search is executed only within a local segment. If the router does not support multicast, the settings are not available even if the TTL value is increased.
- The acceptable TTL value is between 1 and 255.

smb

Use the "smb" command to configure or delete the computer or workgroup name for SMB.

Computer Name settings

msh> smb comp

• Set computer name using up to 15 characters. Names beginning with "RNP" or "rnp" cannot be entered.

Working Group Name settings

msh> smb group

• Set workgroup name using up to 15 characters

Comment settings

msh> smb comment

• Set comment using up to 31 characters

Notify print job completion

msh> smb notif {on | off}

• To notify print job completion, specify "on". Otherwise, specify "off"

Deleting Computer Name

msh> smb clear comp

Deleting Group Name

msh> smb clear group

Deleting Comment

msh> smb clear comment

Protocol settings

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

• Enable or disable NetBEUI and TCP/IP. Specify "up" to enable, and "down" to disable.

snmp

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

View settings

msh> snmp

- Default access settings 1 is as follows: Community name:public IP address:0.0.0.0 Access type:read-only / trap off
- Default access settings 2 is as follows: Community name:admin IP address:0.0.0.0 Access type:read-write / trap off
- If "-p" is added, you can view settings one by one.
- To display the current community, specify its registration number.

Display

msh> snmp ?

Community name configuration

msh> snmp "number" name
"community name"

- You can configure 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 SmartDeviceMonitor for Admin and SNMP Setup Tool to correspond with printer settings.
- The community name can be entered using up to 15 characters.
Deleting community name

msh> snmp "number" clear name

Access type configuration

msh> snmp "number" type
"access_type"

Access type	Type of access permission
no	not accessible
read	read only
write	read and write
trap	user is notified of trap messages

Protocol configuration

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

- Use the following command to set protocols "active" or "inactive": If you set a protocol "inactive", all access settings for that protocol are disabled.
- Specify "ip" for TCP/IP, or "ipx" for IPX/SPX.
- {on} means "active" and {off} means "inactive".
- IEEE 1394 interface is available for TCP/IP only.
- Configuration of protocol for each registration number

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

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

Access configuration

msh> snmp "number" {ip/addr | ipx} "address"

- You can configure a host address according to the protocol used.
- The network interface board accepts requests only from hosts that have addresses with access types of "read-only" or "readwrite". Enter "0" to have network interface board accept requests from any host without requiring a specific type of access.
- Enter a host address to deliver "trap" access type information to.
- To specify TCP/IP, enter "ip" followed by a space, and then the IP address.
- To specify IPX/SPX, enter "ipx" followed by a space, the IPX address followed by a decimal, and then the MAC address of the network interface board.

sysLocation configuration

msh> snmp location

Deleting sysLocation

msh> snmp clear location

sysContact setting msh> snmp contact

Deleting sysContact

msh> snmp clear contact

- SNMP v1v2 function configuration msh> snmp v1v2 {on | off}
 - Specify "on" to enable, and "off" to disable.

SNMP v3 function configuration

msh> snmp v3 {on | off}

• Specify "on" to enable, and "off" to disable.

SNMP TRAP configuration

msh> snmp trap {v1 | v2 | v3} {on | off}

- Specify "on" to enable, and "off" to disable.
- Remote Configuration Authorization configuration

msh> snmp remote {on |
off}

- Specify "on" to enable, and "off" to disable.
- SNMP v3 TRAP configuration display

msh> snmp v3trap

msh> snmp v3trap {1- 5}

- If a number from 1-5 is entered, settings are displayed for that number only.
- Configuring a sending address for SNMP v3 TRAP

msh> snmp v3trap {1-5}
{ip| ipx} "address"

Configuring a sending protocol for SNMP v3 TRAP

msh> snmp v3trap {1-5} active {ip/addr | ipx} {on | off}

 Configuring a user account for SNMP v3 TRAP

msh> snmp v3trap {1-5} account "account_name"

- Enter an account name using up to 32 alphanumeric characters.
- Deleting an SNMP v3 TRAP user account

```
msh> snmp v3trap {1-5}
clear account
```

Configuring an SNMP v3 encryption algorithm

msh> snmp v3auth {md5 |
sha1}

Configuring SNMP v3 encryption

msh> snmp v3priv {auto |
on}

- Set "auto" for automatic encryption configuration
- Set "on" for mandatory encryption configuration.

sntp

The printer clock can be synchronized with a NTP server clock using Simple Network Time Protocol (SNTP). Use the "sntp" command to change SNTP settings.

View settings

msh> sntp

NTP server address configuration

You can specify the IP address of the NTP server.

msh> sntp server "IP_ address"

Interval configuration

msh> sntp interval "polling_
time"

- You can specify the interval at which the printer synchronizes with the operator-specified NTP server. The default is 60 minutes.
- The interval can be entered between 16 and 16,384 minutes.
- 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

msh> sntp timezone "+/hour_time"

• You can specify the time difference between the printer clock and NTP server clock. Time is in 24-hour format.

spoolsw

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

You can only specify diprint, lpr, ipp, ftp and smb protocol.

• The "spoolsw" command for configuring Job Spool settings is available only when the optional hard disk is installed.

View settings

The Job Spool setting appears.

msh> spoolsw

Job Spool setting

 $msh > spoolsw spool {on | off}$

🖉 Note

Specify "on" to enable Job Spool, or "off" to disable it.

Resetting Job spool setting

msh> spoolsw clear job {on
 | off}

• When the printer power is cut during job spooling, this determines whether to reprint the spooled job.

Protocol configuration

msh>	spoolsw	dipr	int	{on off	Ε}
msh>	spoolsw	lpr	{on	off}	
msh>	spoolsw	ipp	{on	off}	
msh>	spoolsw	smb	{on	off}	
msh>	spoolsw	ftp	{on	off}	

• You can specify the settings for diprint, lpr, ipp, and smb.

sprint

Use the "sprint" command to make settings for IEEE 1394 (SCSI print).

View settings

IEEE 1394 (SCSI print) settings are displayed.

msh> sprint

 Bidirectional configuration for IEEE 1394 (SCSI print)

Use this setting to set IEEE 1394 (SCSI print) bidirectional. The default is "on".

msh> sprint bidi {on | off}

status

The printer status can be checked using the following command:

Messages

msh> status

Reference

For details, see p.112 "Current Printer Status"

syslog

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

View message

msh> syslog

Reference

For details about the information displayed, see p.127 "System Log Information".

upnp

Use the "upnp" command to display and configure the universal plug and play.

Public URL display

msh> upnp url

Public URL configuration

msh> upnp "url string"

• Enter the URL string in the character string.

web

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

View Settings

msh> web

URL Configuration

You can set URLs linked by clicking **[URL]** on Web Image Monitor. Specify "1" or "2" for x as the number corresponding to the URL. Up to two URLs can be registered and specified.

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

Deleting URLs registered as link destinations

msh> web x clear url Specify "1" or "2" for x as the corresponding number to the URL.

Link name configuration

You can enter the name for **[URL]** that appears on Web Image Monitor. Specify "1" or "2" for x as the corresponding number to the link name.

msh> web name "Name you want to display"

Deleting URL names registered as link destinations

msh> web x clear name Specify "1" or "2" for x as the number corresponding to the link name.

Help URL Configuration

You can set URLs linked by clicking **[Help]** or **[?]** on Web Image Monitor.

msh> web help http://"Help URL or IP address"/help/

Deleting Help URL

msh> web clear help

wiconfig

Use the "wiconfig" command to make settings for IEEE 802.11b.

View settings

msh> wiconfig

View IEEE 802.11b settings

msh> wiconfig cardinfo

• If IEEE 802.11b is not working correctly, its information is not displayed.

Configuration

msh> wiconfig "parameter"

Parameter	Value configured
mode {ap ad- hoc 802.11adhoc}	You can set the in- frastructure mode (ap), the 802.11 Ad hoc mode (802.11adhoc), or the ad hoc mode (adhoc). The default is ad hoc mode.
ssid " ID value "	You can make set- tings for the SSID in the infrastruc- ture mode. Usable characters are ASCII 0x20- 0x7e (32 bytes). An SSID value is set automatically to the nearest ac- cess point if no set- ting is made. If no setting is made for the ad hoc mode, the same value as for the infrastructure mode or an ASSID value is automati- cally set.

Parameter	Value configured
channel frequency "channel no."	You can enable or disable the WEP function. To enable the WEP function, specify [on]; to dis- able it, specify [off]. To start the WEP function, enter the correct WEP key.
enc {on off}	You can enable or disable the WEP function. To enable the WEP function, specify [on]; to dis- able it, specify [off]. To start the WEP function, enter the correct WEP key.

Parameter	Value configured
key { " key value " } val {1 2 3 4}	You can specify the WEP key when entering in hexa- decimal. With 2.64 bit WEP
	you can use 10 dig- it hexadecimals. With a 128-bit WEP, you can use 26 digit hexadeci- mals.
	Up to four WEP keys can be regis- tered. Specify the number to be reg- istered with "val".
	When a WEP is specified by key, the WEP specified by key phrase is overwritten.
	To use this func- tion, set the same key number and WEP key for all ports that transmit data to each other.
	You can omit the numbers with "val". The key number is set to 1 when making these omissions.

Parameter	Value configured
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 dig- it hexadecimals. With a 128-bit WEP, you can use 26 digit hexadeci- mals.
	Up to four WEP keys can be regis- tered. Specify the number to be reg- istered with "val".
	When a WEP is specified by key phrase, the WEP specified by key is overwritten.
	To use this func- tion, set the same key number and WEP key for all ports that transmit data 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 encod- ing. "1" is set if a number is not specified.
auth {open shared}	You can set an au- thorization mode when using WEP. The specified val- ue and authorized mode are as fol- lows:
	open: open system authorized (de- fault) shared: shared key authorized rate

Parameter	Value configured
rate {au- to 11m 5.5m 2m 1m}	You can set the IEEE 802.11b trans- mitting speed.
	The speed you specify here is the speed at which data is sent. You can receive data at any speed.
	auto: automatical- ly set (default) 11m: 11 Mbps
	fixed
	5.5m: 5.5 Mbps fixed
	2m: 2 Mbps fixed
	1m: 1 Mbps fixed

wins

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

Viewing settings

msh> wins

• If the IP address obtained from DHCP differs from the WINS IP address, the DHCP address is the valid address.

Configuration

msh> wins "interface_name"
{on | off}

- {on} means "active" and {off} means "inactive".
- Be sure to specify the interface.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

Address configuration

Use the following command to configure a WINS server IP address:

msh> wins "interface_name"
{primary|secondary} "IP address"

- Use the "primary" command to configure a primary WINS server IP address.
- Use the "secondary" command to configure a secondary WINS server IP address.
- Do not use "255.255.255.255" 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 can be entered using up to 31 alphanumeric characters.
- Be sure to specify the interface.
- ip1394 can be specified only when the IEEE 1394 interface is installed.
- wlan can be specified only when the IEEE 802.11b interface is installed.

Interface name	Interface configured
ether	Ethernet interface
ip1394	IEEE 1394 interface
wlan	IEEE 802.11b interface

SNMP

The SNMP agent operating on UDP and IPX is incorporated into the builtin Ethernet board and optional IEEE 802.11b interface unit of this printer. Also, the SNMP agent operating on UDP is incorporated in the optional IEEE 1394 interface board.

Using the SNMP manager, you can get information about the printer.

∰Important

If you changed the printer's community name, change the configuration of the connected computer accordingly, using SNMP Setup Tool. For details, see SNMP Setup Tool Help.

The default community names are **[public]** and **[admin]**. You can get MIB information using these community names.

Start SNMP Setup Tool

- Windows 95/98/Me, Windows 2000, Windows NT 4.0: Click the [Start] button. Point to [SmartDeviceMonitor for Admin] on the [Programs] menu. Click [SNMP Setup Tool].
- Windows XP: Click the [Start] button. Point to [SmartDeviceMonitor for Admin] on the [All Programs] menu. Click [SNMP Setup Tool].

Supported MIBs(SNMP v1/v2)

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB

Supported MIBs(SNMP v3)

- MIB-II
- PrinterMIB
- HostResourceMIB
- RicohPrivateMIB
- SNMP-FRAMEWORK-MIB
- SNMP-TARGET-MIB
- SNMP-NOTIFICATION-MIB
- SNMP-USER-BASED-SM-MIB
- SNMP-VIEW-BASED-ACM-MIB

Getting Printer Information over the Network

This section explains details of each item displayed in the printer status and information.

This manual covers all models, and therefore contains functions and settings that may not be available for your model.

Current Printer Status

The printer status can be checked using the following commands:

- UNIX: Use the "lpq" command and "rsh", "rcp", and "ftp" parameters.
- mshell: Use the "status" command.

Messages	Description
Access Restricted	The job was canceled because user have no authority.
Add staples (Booklet: Back)	The staple of booklet finisher (back) is exhausted.
Add staples (Booklet: Both)	The staple of booklet finisher is exhausted.
Add staples (Booklet: Front)	The staple of booklet finisher (front) is exhausted.
Adjusting	The machine is initializing or calibrating.
Call Service Center	There is a malfunction in the machine.
Canceled	The job is reset.
Canceling Job	The job is being reset.
Card/Counter not inserted	The machine is waiting for prepaid card or key.
Coin or amount not inserted	The machine is waiting for coin to be inserted.
Coin/Key Counter not inserted	The machine is waiting for coin or key counter.
Configuring	Setting is being changed.
Cover Open: ADF	The document feeder is open.
Cover Open: Duplex Unit	The cover of the duplex unit is open.
Cover Open: Finisher	The cover of Finisher is open.
Cover Open: Finisher Cover	The cover of Finisher is open.
Cover Open: Finisher Front	The front cover of Finisher is open.
Cover Open: Finisher Upper	The upper cover of Finisher is open.
Cover Open: Finisher Upper-L	A upper left cover of Finisher is open.
Cover Open: Finisher Upper-R	A upper right cover of Finisher is open.
Cover Open: Front	The front cover is open.
Cover Open: Front Cover	The front cover is open.
Cover Open: Fusing Unit Cover	The cover of the fusing unit is open.

Messages	Description
Cover Open: Lower Right	The lower right cover is open.
Cover Open: Mailbox	The mailbox is open.
Cover Open: Right	The right cover is open.
Cover Open: Shift Tray Cover	The shift tray cover is open.
Cover Open: Upper Left	The upper left cover is open.
Cover Open: Upper Right	The upper right cover is open.
Cover Open: Z-folding Upper	The upper Z fold unit cover on is open.
Data Size Error	The data size error occurred.
Empty: Black Toner	The black toner cartridge is almost empty.
Empty: Cyan Toner	The cyan toner cartridge is almost empty.
Empty: Magenta Toner	The magenta toner cartridge is almost empty.
Empty: Toner	The toner cartridge is almost empty.
Empty: Yellow Toner	The yellow toner cartridge is almost empty.
Energy Saver Mode	The machine is in Energy Saver Mode.
Error	An error has occurred.
Error: Address Book	An error has occurred in the data of the address book.
Error: Command Transmission	An error has occurred in the machine.
Error: DIMM Value	A memory error occurred.
Error: Ethernet Board	An Ethernet board error has occurred.
Error: HDD Board	A hard disk drive board error has occurred.
Error: IEEE1394 Board	An IEEE 1394 interface board error has occurred.
Error: Media Link Board	An error has occurred on the media link board.
Error: Memory Switch	A memory switch error has occurred.
Error: Optional Font	An error has occurred in the font file of the machine.
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: PDL	An error has occurred in the page description language.
Error: USB Interface	An error has occurred in the USB interface.
Error: Wireless Card	Wireless card is not inserted during start up, or the IEEE 802.11b interface unit or the wireless card is taken out after start up .
Error: Wireless Card or Board	An error has occurred in the IEEE 802.11b interface unit.
Exceed Booklet Stapling Limit	The printing has exceeded the stapling limit of the booklet finisher.
Full: Copy Tray	The output paper tray is full.
Full: Finisher	Finisher tray is full.

Messages	Description
Full: Finisher Booklet Tray	Booklet tray of Finisher is full .
Full: Finisher Shift Tray	Shift tray of Finisher is full.
Full: Finisher Shift Tray 1	Shift tray 1 of Finisher is full.
Full: Finisher Shift Tray 1, 2	The shift tray 1 and 2 of Finisher are full.
Full: Finisher Shift Tray 2	Shift tray 2 of Finisher is full.
Full: Finisher Upper Tray	The upper tray of Finisher is full.
Full: Hole Punch Receptacle	Punch Chip receptacle for hole punch is full.
Full: Internal Tray	The output paper tray is full.
Full: Mailbox Tray 1	Tray 1 of the mailbox is full.
Full: Mailbox Tray 2	Tray 2 of the mailbox is full.
Full: Mailbox Tray 3	Tray 3 of the mailbox is full.
Full: Mailbox Tray 4	Tray 4 of the mailbox is full.
Full: Mailbox Tray 5	Tray 5 of the mailbox is full.
Full: Mailbox Tray 6	Tray 6 of the mailbox is full.
Full: Mailbox Tray 7	Tray 7 of the mailbox is full.
Full: Mailbox Tray 8	Tray 8 of the mailbox is full.
Full: Mailbox Tray 9	Tray 9 of the mailbox is full.
Full: Waste Oil Bottle	The abolition oil bottle is full.
Full: Waste Toner	Waste toner is full.
Full: Waste Toner Bottle	Waste toner bottle is full.
Hex Dump Mode	It is a hex dump mode.
Immed. Trans. not connected	It did not connect directly with the other party of the trans- mission.
Immediate Transmission Failed	An error has occurred while transmitting directly.
In Use: Copier	The copier is being used.
In Use: Fax	The fax is being used.
In Use: Finisher	Other functions is using Finisher.
In Use: Input Tray	Other functions is using the input tray.
In Use: Staple Unit	Other functions is using the staple unit.
Independent-supplier Toner	Toner that is not recommended is set.
Key Card not inserted	The machine is waiting for key card to be inserted.
Key Card/Counter not inserted	The machine is waiting for key card or key counter to be inserted.
Key Counter not inserted	The machine is waiting for key counter to be left in it.
Loading Toner	Toner is being supplied.

Messages	Description
Low: Black Toner	The black toner cartridge is not set correctly, or toner is al- most running out.
Low: Cyan Toner	The cyan toner cartridge is not set correctly, or toner is al- most running out.
Low: Magenta Toner	The magenta toner cartridge is not set correctly, or toner is almost running out.
Low: Toner	The toner cartridge is not set correctly, or toner is almost running out.
Low: Yellow Toner	The yellow toner cartridge is not set correctly, or toner is almost running out.
Malfunction: Booklet Processor	There is a problem with booklet finisher.
Malfunction: Ext. Charge Unit	There is a problem with external charge unit.
Malfunction: Finisher	There is a problem with Finisher.
Malfunction: Interposer	There is a problem with Interposer.
Malfunction: LargeCapacity Tray	There is a problem with LargeCapacity tray.
Malfunction: Output Tray	There is a problem with output tray.
Malfunction: Staple Unit	There is a problem with the staple unit.
Malfunction: Tray 1	There is a problem with tray 1.
Malfunction: Tray 2	There is a problem with tray 2.
Malfunction: Tray 3	There is a problem with tray 3.
Malfunction: Tray 3 (LCT)	There is a problem with tray 3 (LCT).
Malfunction: Tray 4	There is a problem with tray 4.
Malfunction: Z-folding unit	There is a problem with the Z fold unit.
Memory Low: Copy	Memory shortage has occurred while the copy was operating.
Memory Low: Data Storage	Memory shortage has occurred while the document was being accumulated.
Memory Low: Fax Scanning	Memory shortage has occurred while transmitting the fax.
Memory Low: Scanning	Memory shortage has occurred while the scanner was working.
Miscellaneous Error	Other error has occurred.
Mismatch: Paper Size	Indicated paper tray does not contain paper of selected size.
Mismatch: Paper Size and Type	Indicated paper tray does not contain paper of selected size and type.
Mismatch: Paper Type	Indicated paper tray does not contain paper of selected type.
Near Replacing: Black PCU	Prepare the new black photoconductor unit.
Near Replacing: Develop. Unit C	Prepare the new development unit (cyan).
Near Replacing: Develop. Unit K	Prepare the new development unit (black).
Near Replacing: Develop. Unit M	Prepare the new development unit (magenta).

Messages	Description
Near Replacing: Develop. Unit Y	Prepare the new development unit (yellow).
Near Replacing: Fusing Unit	Prepare the new fusing unit.
Near Replacing: Maintenance Kit	Prepare the new maintenance kit.
Nearly Full: Waste Toner	Waste toner bottle is nearly full.
Need more Booklet Staples	Stapler has almost run out of staples.
No Paper: Interposer Tray	There is no paper in interposer unit.
No Paper: LCT	There is no paper in Large Capacity tray.
No Paper: Selected Tray	There is no paper in specified tray.
No Paper: Tray 1	There is no paper in tray 1.
No Paper: Tray 2	There is no paper in tray 2.
No Paper: Tray 3	There is no paper in tray 3.
No Paper: Tray 3 (LCT)	There is no paper in tray 3 (Large Capacity tray).
No Paper: Tray 4	There is no paper in tray 4.
Not Detected: B2 Lever	B2 lever is not correctly set.
Not Detected: Black Toner	Black toner is not correctly set.
Not Detected: Cyan Toner	Cyan toner is not correctly set.
Not Detected: Develop. Unit (C)	The development unit (cyan) is not correctly set.
Not Detected: Develop. Unit (K)	The development unit (black) is not correctly set.
Not Detected: Develop. Unit (M)	The development unit (magenta) is not correctly set.
Not Detected: Develop. Unit (Y)	The development unit (yellow) is not correctly set.
Not Detected: Duplex Feed Unit	The duplex feed unit is not correctly set.
Not Detected: Finisher	Finisher is not correctly set.
Not Detected: Fusing Unit	The fusing unit is not correctly set.
Not Detected: Input Tray	The paper feed tray is not correctly set.
Not Detected: Interposer	Interposer unit is not correctly set.
Not Detected: LCT	A large amount of paper feed tray is not correctly set.
Not Detected: Magenta Toner	Magenta toner is not correctly set.
Not Detected: PCU (C)	The photoconductor unit (cyan) is not correctly set.
Not Detected: PCU (K)	The photoconductor unit (black) is not correctly set.
Not Detected: PCU (M)	The photoconductor unit (magenta) is not correctly set.
Not Detected: PCU (Y)	The photoconductor unit (yellow) is not correctly set.
Not Detected: Tray 1	Tray 1 is not correctly set.
Not Detected: Tray 2	Tray 2 is not correctly set.
Not Detected: Tray 3	Tray 3 is not correctly set.
Not Detected: Tray 3 (LCT)	Tray 3 (Large Capacity tray) is not correctly set.

Messages	Description
Not Detected: Tray 4	Tray 4 is not correctly set.
Not Detected: WasteToner Bottle	Waste toner bottle is not correctly set.
Not Detected: Yellow Toner	Yellow toner is not correctly set.
Not Detected: Z-fold'g Internal	The Z fold unit is not correctly set.
Not Reached, Data Deleted	Unreached job is deleted.
Not Reached, Data Stored	Unreached job is preserved.
Offline	Printer is offline.
Original on Exposure Glass	The original remains on the exposure glass.
Panel Off Mode	The machine is in Panel-Off mode.
Panel Off Mode>>Printing ava.	The machine is in Control Panel-Off mode.
Paper in Duplex Unit	The paper remains in the duplex unit.
Paper in Finisher	The paper remains in Finisher.
Paper Misfeed: ADF	The paper has jammed in Document Feeder.
Paper Misfeed: BookletProcessor	The paper has jammed in booklet finisher.
Paper Misfeed: Duplex Feed Unit	The paper has jammed in duplex feed unit.
Paper Misfeed: Duplex Unit	The paper has jammed in the duplex unit.
Paper Misfeed: Finisher	The paper has jammed in Finisher.
Paper Misfeed: Input Tray	The paper has jammed in the input tray.
Paper Misfeed: Internal Path	The paper has jammed inside the machine.
Paper Misfeed: Internal/Output	The paper has jammed inside the machine.
Paper Misfeed: Interposer	The paper has jammed in interposer unit.
Paper Misfeed: Mailbox	The paper has jammed in the mailbox.
Paper Misfeed: Output Tray	The paper has jammed in output tray.
Paper Misfeed: Z-folding unit	The paper has jammed in the Z fold unit.
Paper on Finisher Shift Tray 2	The paper remains in Finisher Shift Tray 2.
Paper on FinisherShiftTray1, 2	The paper remains in Finisher Shift Tray 1 and 2.
Paper on Paper Bypass	The paper remains in the bypass tray.
Prepaid Card not inserted	The machine is waiting for prepaid card to be inserted.
Print Complete	The print was completed.
Printing	Printing is in progress.
Processing	Data is being processed.
RC Gate Connection Error	Failed connection with RC Gate.
Ready	The machine is ready to print.
Replace Black PCU	It is time to replace the black photoconductor unit.
Replace Charger Kit	It is time to replace the charger kit.

Messages	Description
Replace Cleaning Web	It is time to replace the Cleaning Web.
Replace Color PCU	It is time to replace the photoconductor unit (color).
Replace Develop. Unit (Black)	It is time to replace the development unit (black).
Replace Develop. Unit (Color)	It is time to replace the development unit (color).
Replace Develop. Unit (Cyan)	It is time to replace the development unit (cyan).
Replace Develop. Unit (Magenta)	It is time to replace the development unit (magenta).
Replace Develop. Unit (Yellow)	It is exchange time of the development unit (yellow).
Replace Feed Roller	It is time to replace the transfer roller.
Replace Fuser Oil Unit	It is time to replace the fuser oil unit.
Replace Fusing Unit	It is time to replace the fusing unit.
Replace Maintenance Kit	It is time to replace the maintenance kit.
Replace PCU	It is time to replace the photoconductor unit.
Replace Toner Suction Motor	It is time to replace the toner Suction motor.
Replace Transfer Belt	It is time to replace the transfer belt.
Replace Transfer Cleaning Unit	It is time to replace the transfer cleaning unit.
SD Card Authentication failed	SD card authentication failed.
Setting Remotely	The RDS setting is being processed.
Skipped due to Error	Skipped the error.
Storage Complete	The storage is complete.
Storage Failed	The storage has failed.
Supplies Order Call failed	The supply order call has failed.
Suspend / Resume Key Error	Finisher stop button was pressed.
Transmission Aborted	The transmission was interrupted.
Transmission Complete	The transmission completion was completed.
Transmission Failed	The transmission has failed.
Tray Error: Chaptering	The paper feed tray specification error has occurred be- cause chaptering as well as the normal paper use the same tray for printing.
Tray Error: Duplex Printing	Selected paper tray cannot be used for duplex printing.
Unit Left Open: ADF	Document feeder is opened.
Warming Up	The machine is warming up.

🖉 Note

- □ For details about UNIX commands, see **UNIX Supplement**.
- □ Check the error contents that may be printed in the configuration page. For details about printing a configuration page, see Printer Reference.

Printer configuration

You can check the printer configuration using telnet.

This section explains the checking procedure for input/output tray and printer language.

- UNIX: Use the "info" command and "rsh", "rcp", and "ftp" parameters.
- mshell: Use the "info" command.

✤ Input Tray

Item	Description
No.	ID number of the paper tray
Name	Name of the paper tray
PaperSize	Size of paper loaded in the paper tray
status	Current status of the paper tray Normal:Normal NoInputTray: No tray PaperEnd:No paper

✤ Output Tray

Item	Description
No.	ID number of the output tray
Name	Name of the output tray
status	Current status of the output tray
	Normal:Normal
	PaperExist:Paper exist
	OverFlow:Paper is full
	Error:Other errors

Emulation

Item	Description
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

🔗 Note

- □ For details about UNIX commands and parameters, see **UNIX Supplement**.
- □ For details about mshell info commands, see p.96 "info".

Understanding the Displayed Information

This section explains how to read status information returned by the network interface board.

Print Job Information

Use the following command to display print job information:

- UNIX: Use the "info" command and "rsh", "rcp", and "ftp" parameters.
- mshell: Use the "info" command.

Item	Description
Rank	Print job status.
	• Active Printing or preparing for printing.
	 Waiting Waiting to be transformed to the printer
	warning 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.

Note

□ For details about UNIX commands and parameters, see **UNIX Supplement**.

□ For details about mshell info commands, see p.96 "info".

Print Log Information

This is a record of the most recent 16 jobs printed.

Use the following command to display print log information:

- UNIX: Use the "prnlog" command and "rsh", "rcp", and "ftp" parameters.
- telnet : Use the "prnlog" command. See p.97 "prnlog".

Item	Description
ID	Print request ID.
User	Print request user name.
Page	Number of pages printed
Result	Print Request Result
	Communication Result
	• OK
	Print was completed normally. However, the print result may not be as required due to printer problems.
	• NG
	Printing was not completed normally.
	• Canceled
	An "rcp", "rsh", or "lpr" command print request was canceled, possibly due to the printing application. Not applicable to the "ftp" or "rprinter" command.
Time	Time the print requested was received.
	Time of print request reception
User ID	Printer driver-configured User ID.
	Appears when the print request ID is specified.
JobName	Name of the document for printing
	Appears when the print request ID is specified.

🖉 Note

- □ For details about UNIX commands and parameters, see UNIX Supplement.
- □ For details about mshell prnlog commands, see p.97 "prnlog".

Configuring the Network Interface Board

Use the following command to display network interface board settings:

• telnet : Use the "show" command. See p.101 "show".

Item	Description
Common	
mode	
Protocol Up/Down	[up] means "active" and [down] means "inactive".
appletalk	
TCP/IP	
netware	
SMB	
IP over 1394	
SCSI print	
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	Administrator information for the printer and contact information in the SNMP information
Soft switch	
appletalk	
mode	AppleTalk protocol in selection
Net	Network number
Object	Macintosh printer name
Туре	Type of printer
Zone	Name of the zone that the printer belongs to

Item	Description
TCP/IP	
mode	[up] means "active" and [down] means "inactive".
ftp	
lpr	
rsh	
telnet	
diprint	
web	
http	
ftpc	
snmp	
ipp	
autonet	
rendezvous	
ssl	
rfu	
nbt	
EncapType	Frame type
dhcp	Dynamic Host Configuration Protocol (on/off)
Host name	
Address	IP address
netmask	Subnet mask
broadcast	Broadcast address
DNS Domain	DNS domain type
gateway	Default gateway address
Access Range[☆]	Access control range
Time server	NTP server address
Time Zone	NTP server time difference
Time server polling time	NTP server interval
SYSLOG server	
Home page URL	URL of homepage.
Home page link name	URL of home page

Item	Description
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	Packet 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
Computer name	Name of the computer
Comment	Comment
Share name[1]	Share name (model of the printer)
protocol	

Item	Description
IEEE 802.11b	
Device Name	Printer name
dhcp	DHCP (on/off)
Address	IP address
netmask	Subnet mask
broadcast	Broadcast address
DNS Domain	DNS domain type
ssid	SSID used
Channel range	Channels available for use
Channel	Channel used
Communication mode	IEEE 802.11b interface transmitting mode
Authentication	
TX Rate	IEEE 802.11b interface speed
WEP encryption	WEP enabled or disabled
Encryption key	WEP key
IP over 1394	
Host name	
DHCP	
Address	IP address
netmask	Subnet mask
broadcast	Broadcast address
DNS Domain	
SCSI print	
Bidi.	Bidirectional setting (on/off)
Bluetooth	
Bluetooth mode	Bluetooth connection mode
UPnP	
URL	
dns	
Server[X]:	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
ip1394	

Item	Description
rendezvous	
Computer Name	Computer name
Rendezvous Name (ether)	Rendezvous name on an Ethernet connection
Rendezvous Name (wlan)	Rendezvous name on a wireless LAN connection
Rendezvous Name (ip1394)	Rendezvous name on an IP over 1394 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
LinkLocal Route for Multi I/F: Ethernet (ether)	[IEEE 802.11b (wlan)] appears when IEEE 802.11b is selected. [IP over 1394 (ip1394)] appears when IEEE1394 is selected.
DDNS	
ether	Dynamic DNS function on an Ethernet connection (on/off)
wlan	Dynamic DNS function on a wireless LAN connection (on/off)
ip1394	Dynamic DNS function on an IP over 1394 connection (on/off)
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
ip1394	
Primary WINS	IP address of the primary WINS server on an IP over 1394 connection
Secondary WINS	IP address of the secondary WINS server on an IP over 1394 connection
SNMP	
SNMPv1v2	
SNMPv3	
protocol	
v1Trap	
v2Trap	
v3Trap	
SNMPv1v2 Remote Setting	
SNMPv3 Privacy	
Shell mode	Remote maintenance tool mode

Message List

This is a list of messages that appear in the printer's system log. The system log can be viewed using the "syslog" command.

System Log Information

Use the following command to display the system log information:

- UNIX: Use the "syslog" command and "rsh", "rcp", and "ftp" parameters.
- telnet : Use the "syslog" command.

Message	Problem and solutions
Access to NetWare server <file name="" server=""> denied. Either there is no account for this print server on the NetWare server or the password was incorrect.</file>	(In the print server mode) Login to the file server failed. Make sure that the print server is registered on the file server. If a password is specified for the print server, delete it.
add_sess: bad trap addr: <ipaddress>, com- munity:<community name=""></community></ipaddress>	The IP address (0.0.0.0.) is unavailable when the community access type is TRAP. Specify the host IP address for the TRAP destination.
add_sess: community <community name=""> al- ready defined.</community>	The same community name already exists. Use another community name.
add_sess_ipx: bad trap addr: <ipxaddress>, community:<community name=""></community></ipxaddress>	The IPX address (00:00:00:00:00:00) is unavail- able 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 ad-<br="">dress>, <password></password></ip>	An anonymous login has been made with a password <password> from the host <ip ad-<br="">dress>.</ip></password>
anpd start. (AppleTalk)	The ANPD (AppleTalk Network Package Dae- mon) service has started.
Attach FileServer= <file name="" server=""></file>	Connection to the file server as the nearest server has been established.
Attach to print queue <print name="" queue=""></print>	(In the print server mode) Attached to the print queue.
Cannot create service connection	(In the remote printer mode) Connection to the file server has not been established. The number of file server users may have exceeded the maximum capacity of the file server.
Cannot find rprinter (<print server<br="">name>/<printer number="">)</printer></print>	The printer with the number displayed on the print server does not exist. Make sure that the printer number is registered on the print server.
Change IP address from DHCP Server.	The IP address changes when DHCP lease is re- newed. To always assign the same IP address, set a static IP address to the DHCP server.

Message	Problem and solutions
child process exec error! (process name)	The network service failed to start. Turn the printer off and then on. If this does not work, contact your service or sales representative.
Connected DHCP Server(<dhcp ad-<br="" server="">dress>).</dhcp>	The IP address was successfully received from the DHCP server.
connection from <ip address=""></ip>	Login was from the host IP address.
Could not attach to FileServer <error number=""></error>	(In the remote printer mode) Connection to the file server has not been established. The file server has refused the connection. Check the file server configuration.
Could not attach to PServer <print server=""></print>	(In the remote printer mode) Connection to the print server has not been established. The print server has refused the connection. Check the print server configuration.
Current Interface Speed:xxxMbps	Speed of the network (10 Mbps or 100 Mbps)
Current IP address <current address="" ip=""></current>	The IP address <current address="" ip=""> was re- ceived from the dhcp server.</current>
Current IPX address <ipx address=""></ipx>	Current ipx address
DHCP lease time expired.	DHCP lease time has expired. The printer tries to discover the DHCP server again. The IP ad- dress until now becomes invalid.
DHCP server not found.	The DHCP server was not found. Make sure that the DHCP is on the network.
dhcpcd start.	The DHCPCD service (dhcp client service) has started.
Duplicate IP= <ip address="">(from <mac ad-<br="">dress>).</mac></ip>	The same IP address is used. Each IP address must be unique. Check the address of the de- vice indicated in [MAC address].
Established SPX Connection with PServ- er,(RPSocket= <socket number="">, con- nID=<connection id="">)</connection></socket>	(In the remote printer mode) Connection to the print server has been established.
exiting	The lpd service has ended and the system is exiting the process.
Exit pserver	(In the print server mode) The print server function is disabled because the necessary print server settings have not been made.
Frametype = <frame name="" type=""/>	The frame type name is configured to be used on NetWare.
httpd start.	The httpd service has started.
inetd start.	The inetd service has started.
IPP cancel-job: permission denied.	The printer could not authenticate the name of the user attempting to cancel a job.
ipp disable.	Printing with ipp is disabled.

Message	Problem and solutions
ipp enable.	Printing with ipp is enabled.
IPP job canceled. jobid=%d.	The spooled job was canceled due to error or user request.
LeaseTime= <lease time="">(sec), Renew- Time=<renew time="">(sec).</renew></lease>	The resource lease time received from the DHCP server is displayed in [lease time] in seconds. The renewal time is displayed in [renew time] in seconds.
Login to fileserver <file name="" server=""> (<ipx ip="" ="">,<nds bind-<br="" bindery="" nds="" ="">ERY>)</nds></ipx></file>	(In the print server mode) Login to the file server is in the 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 the NetBIOS name with the IP address.
nbtd start.	The nbtd service has started (available only in the DHCP mode).
NetBEUI Computer Name = <computer name></computer 	The NetBEUI computer name is specified.
nmsd start. (NetBEUI)	The nmsd (Name Server Daemon) service has started.
npriter start. (NetWare)	(In the remote printer mode) The NetWare service has started.
nwstart start. (NetWare)	The service for NetWare protocol stack setting has started.
Open log file <file name=""></file>	(In the print server mode) The specified log file has been opened.
papd start. (AppleTalk)	The AppleTalk print service has started.
phy release file open failed.	Replacing the network interface board is re- quired. Contact your sales or service repre- sentative.
Print queue <print name="" queue=""> cannot be serviced by printer 0, <print name="" server=""></print></print>	(In the print server mode) The print queue cannot be established. Make sure that print queue exists on the specified file server.
Print server <print name="" server="">has no print- er.</print>	(In the print server mode) The printer is not as- signed to the print server. Using NWadmin, assign the printer, and then restart it.
print session full	No more print jobs can be accepted.
Printer <printer name=""> has no queue</printer>	(In the 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.

Message	Problem and solutions
pserver start. (NetWare)	(In the print server mode) The NetWare serv- ice has started.
Required computer name (<computer name="">) is duplicated name</computer>	The start job found the computer name by adding the computer name to the suffix (0,1). Set a new computer name that is unique.
Required file server (<file name="" server="">) not found</file>	The required file server is not found.
restarted.	The lpd service has started.
sap enable, saptype= <sap type="">, sap- name=<sap name=""></sap></sap>	The SAP function has started. The SAP packet is issued to advertise the service on the SAP ta- ble on the NetWare server.
session <community name=""> already defined.</community>	The requested community name is not de- fined.
session_ipx <community name=""> not defined.</community>	The requested community name is not de- fined.
Set context to <nds context="" name=""></nds>	An NDS context name has been set.
shutdown signal received. network service re- booting	The network service is rebooting.
smbd start. (NetBEUI)	The smbd service has started.
SMTPC: failed to get smtp server ip-address.	The SMTP server IP address could not be ob- tained. This could be because:
	• The specified DNS server could not be found.
	 No connection to the network has been es- tablished.
	• The specified DNS server could not be found.
	• An incorrect DNS server is specified.
	• The specified SMTP server IP address could not be found in the DNS server.
SMTPC: failed to connect smtp server. time- out.	Connection to the SMTP server failed due to timeout. This could be because:
	• The specified SMTP server name is incorrect.
	• No connection to the network has been es- tablished.
	• The network configuration is incorrect, so there is no response from the SMTP server.
SMTPC: refused connect by smtp server.	Connection to the SMTP server is denied. This could be because:
	• A server other than the SMTP server has been specified.
	• The specified SMTP server port number is incorrect.

Message	Problem and solutions
SMTPC: no smtp server. connection close.	Connection to the SMTP server failed due to no response from SMTP. This could be be- cause:
	• A server other than the SMTP server has been specified.
	• The specified SMTP server port number is incorrect.
SMTPC: failed to connect smtp server.	Connection to the SMTP server failed. This could be because:
	• No connection to the network has been es- tablished.
	• The network configuration is incorrect, so there is no response from the SMTP server.
	• The specified SMTP server name is incorrect.
	• An incorrect SMTP server is specified.
	• The specified SMTP server IP address could not be found in the DNS server.
	• A server other than the SMTP server has been specified.
	• The specified SMTP server port number is incorrect.
SMTPC: username or password wasn't cor- rect. [response code] (information)	Connection to the SMTP server failed. 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 IP over 1394 is ready.	Communication over IP over 1394 with snmp is available.
Snmp over ipx is ready.	Communication over IPX with snmp is available.
SNMPD: account is unavailable:	User account is disabled. This could be be-
Same account name be used.	cause it use the same account name as the ad- ministrator account.
SNMPD: account is unavailable:	User account is disabled. This could be be-
The authentication password is not set up.	cause the authentication password is not set, and only the encryption account is set.
SNMPD: account is unavailable: encryption is impossible.	Encryption is not possible and account is disabled. This could be because:
, 1 1	• Security option is not installed.
	• Encryption password has not been speci- fied.
SNMPD: trap account is unavailable.	v3Trap cannot be sent. This could be because the Trap destination account is different from the account specified by the printer.

Message	Problem and solutions
snmpd start.	The snmpd service has started.
started.	The direct print service has started.
Started.	The rendezvous function is enabled.
Terminated.	The rendezvous function is disabled.
Terminated. (PS not found)	The rendezvous function is disabled because PS is not found.
The print server received error <error number> during attempt to log in to the net- work. Access to the network was denied. Ver- ify that the print server name and password are correct.</error 	Login to the file server failed. The print server is not registered or a password is specified. Register the print server without specifying a password.
WINS name refresh :Server No Response	There was no response to the update request from the print server. Check that the WINS server address is correct and the WINS server is working properly.
WINS name registration/refresh error code(errornumber)	Set unique NetBIOS names.
	Check that the WINS server address is correct and the WINS server is working properly.
WINS name registration:Server No Response	There was no response to the registration re- quest from the server. Check that the WINS server address is correct and the WINS server is working properly.
WINS server address0.0.0.0	The WINS server was not specified. Specify the WINS server address to match the printer name with WINS.
WINS Server= <wins address="" server=""> NetBI- OS Name=<netbios name=""></netbios></wins>	The printer name was successfully registered.
WINS wrong scopeID	The scope ID is incorrect.
	Specify the correct scope ID.

🖉 Note

- □ For details about UNIX commands and parameters, see **UNIX Supplement**.
- □ For details about "syslog" command, see p.106 "syslog".

5. Special Operations under Windows

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print PostScript files for Post-Script 3.

✤ Windows 95/98/Me

You can print files directly using ftp command.

Windows 2000/XP, Windows Server 2003, Windows NT 4.0

You can print files directly using lpr, rcp or ftp command.

Setup

Follow the procedure below to make network environment settings.

Enable TCP/IP with the control panel, and then set up the printer's network environment about TCP/IP including IP addresses.

TCP/IP of the printer is set as default.

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

Consult the network administrator for the local setting information.

E To print under Windows 2000/XP, Windows Server 2003, or Windows NT 4.0, install "Printing service for UNIX" as the network application. To print under Windows NT 4.0, install "Microsoft TCP/IP printing" as the network application.

Reference

For details about setting the IP address of the printer using DHCP, see p.139 "Using DH-CP".

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.133 "Using a Host Name Instead of an IP Address" and continue the setup.

Using a Host Name Instead of an IP Address

When a host name is defined, you can specify a printer by host name instead of IP address. The host names vary 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.

Reference

For details about printing a configuration page, see Printer Reference.

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 depending on operating systems.

Windows 95/98/Me

- Copy \WINDOWS\HOSTS.SAM to the same directory and name it "HOSTS" with no extension.
- **2** Open the "\WINDOWS\HOSTS" file created using memo pad files, for instance.

Add an IP address and host name to the hosts file using 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 "#NP" is replaced by comments. Insert a space or tab between "192.168.15.16" and "host", between "host" and "#NP" respectively, using one line for this format.

4 Save the file.

Windows 2000/XP, Windows Server 2003, Windows NT 4.0

Open the hosts file using memo pad files, for instance.

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, and Windows NT 4.0.

2 Add an IP address and host name to the hosts file using 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 "#NP" is replaced by comments. Insert a space or tab between "192.168.15.16" and "host", between "host" and "#NP" respectively, using one line for this format.

3 Save the file.

Printing Commands

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

Enter commands using the command prompt window. The location of the command prompts varies depending on operating systems:

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

🖉 Note

Match the data format of the file to be printed with the emulation mode of the printer.

- If the message "print requests full" appears, no print jobs can be accepted. Try again when sessions end. For each command, the amount of possible sessions is indicated as follows:
 - lpr: 5(When the spool printing function is available: 10)
 - rcp, rsh: 5
 - ftp: 3
- Enter the file name in a format including the path from the directory executing commands.

Reference

The "option" specified in a 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 ad-
dress [-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
```

```
When printing a binary file, add the "-ol" option (lowercase O, and lowercase L).
```

When using a printer with the host name "host" to print a PostScript file named "file 1" located in the "C:\PRINT" directory, the command line is as follows:

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

rcp

First, register the printer's host name in the hosts file.

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

🖉 Note

- □ In 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 "file 1" or "file 2" located in the "C:\PRINT" directory, the command line is as follows:

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

✓ Reference

For details about registering the printer's host name in the hosts file, see p.133 "Using a Host Name Instead of an IP Address".

ftp

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

When one file is printed

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

When multiple files are printed

ftp> mput \pass name\file
name [\pass name\file
name...] [option]

Follow the procedure below to print using the "ftp" command.

5

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

% ftp printer's IP address

2 Enter the user name and password, and then press the [# Enter] key.

To use the default account, enter "admin" as user name, and leave the password blank.

User: Password:

When user authentication is set, enter a login user name and password.

When printing a binary file, set the file mode to binary.

ftp> bin

When printing a binary file in AS-CII mode, print may not come out correctly.

Specify files to be printed.

The following shows the examples of printing a PostScript file named "file 1" in the "C:\PRINT" directory and printing file 1 and file 2.

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

D Quit ftp.

ftp> bye

🖉 Note

- "=", ",", "_", and ";"cannot be used for filenames. File names will be read as option strings.
- □ For "mput" command, option can not be defined.
- □ For "mput" command, "*" and "?" can be used as wild cards in file names.

□ When printing a binary file in ASCII mode, print may not come out correctly.

6. Appendix

When Using Windows Terminal Service/MetaFrame

The following explains how to use Windows Terminal Service and Maintenance.

Operating Environment

The following operating systems and MetaFrame versions 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
 - PCL drivers
 - PostScript 3

🖉 Note

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

Limitations

The following limitations apply to the Windows Terminal Service environment.

These limitations are built in Windows Terminal Service or Meta-Frame.

Windows Terminal Service

In the Windows Terminal Service environment, some of the printer driver's functions is unavailable. In an environment where Windows Terminal Service is installed, some of the printer driver's functions is unavailable, even if any function of Windows Terminal Service is not used. When you install SmartDeviceMonitor for Client in an environment where the Terminal Service is running on a Windows NT Server 4.0 Terminal Server Edition or the Windows 2000 Server family computer, be sure to install it using the install mode. The following are the two methods of installation using the install mode:

- Use [Add/Remove Programs] in [Control Panel] to install Smart-DeviceMonitor for Client.
- ② Enter the following command in the MS-DOS command prompt:

To quit the install mode, enter the following command in the MS-DOS command prompt.

MetaFrame's [Auto-creating client printers]

Using **[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 in your network environment before using it for your work.

- The settings for optional equipment will not be stored in the server after the equipment is disconnected. The settings for optional equipment will be restored to its defaults 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, printing may not be possible or errors may occur, depending on data transfer rates.
- When using MetaFrame XP 1.0 or higher versions, we recommend making settings in [Client Printer bandwidth] under [Citrix Management Console] according to the environment.

- If a print error occurs on the server and the print job or a printer created in [Auto-creating client printers] cannot be deleted, we recommend the following:
 - MetaFrame 1.8 SP3, Meta-Frame XP 1.0 SP1/FR1 Make settings in **[Delete unfinished print jobs]** in the registry. For details, see the Readme file provided with Meta-Frame.
 - MetaFrame XP 1.0 FR2 Make settings in [Delete pending print jobs at logout] under [Printer Properties Management] of Citrix Management Console.
- MetaFrame's [Printer driver replication]

Using **[Printer driver replication]** can distribute printer drivers across all servers in a server farm. We strongly recommend testing this function in your network environment before using it for your work.

• If the printer drivers are not properly copied, install them directly onto each server.
Using DHCP

You can use the printer in a DHCP environment. You can also register the printer NetBIOS name on a WINS server when it is running.

If you connect an Ethernet interface and IEEE 1394 (IP over 1394) interface simultaneously, pay attention to the following:

When a static IP address is set for both interfaces

- IP Address: If interface IP addresses overlap, the Ethernet interface is selected.
- Subnet Mask: If interface subnet masks overlap, the Ethernet interface is selected.
- Gateway Address: The selected value is applied.

🖉 Note

- □ Make the gateway address setting inside the subnet set in the interface.
- □ If a value is beyond the range of the subnet selected by the interface, the machine operates using "0.0.0.0".

When obtaining addresses from the DHCP server

• IP Address, Subnet Mask: you can configure addresses assigned by a DHCP server.

🖉 Note

- If IP addresses overlap or the same subnet IP addresses are selected, the effective value is assigned only to the prioritized interface.
- Ethernet has default interface priority.
- AutoNet: A temporary IP address starting with 169.254 and not used on the network, is assigned to the prioritized interface.

🖉 Note

- □ Default interface priority is IEEE 1394 (IP over 1394).
- Gateway Address, DNS Server Address, and Domain Name: You can configure the addresses assigned by DHCP to the prioritized interface.

If the gateway address is beyond the range of the subnet selected for the interface, the machine operates using "0.0.0.0".

🔗 Note

Ethernet has default interface priority.

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When there are static IP addresses and addresses assigned by DHCP

• IP Address and subnet mask: if a static IP address is the same as an address assigned by DHCP, or the static subnet mask address and the subnet mask address assigned by DHCP overlap, the machine uses the static IP address interface.

🖉 Note

- □ The interface with the DHCP setting is set by default.
 - Gateway Address: operates using the address entered manually.

🖉 Note

□ If a static address is not selected, or is set to 0.0.0.0, the interface using the address assigned by DHCP is used.

🖉 Note

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server. See p.110 "wins".
- Supported DHCP servers are Microsoft DHCP Server included with Windows 2000 Server, Windows Server 2003, and Windows NT 4.0, and the DHCP server included with NetWare and UNIX.
- 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.
- To use the WINS server, change the WINS server setting to "active" using the control panel.
- Using the WINS server, you can configure the host name via the remote network printer port.

- DHCP relay-agent is not supported. If you use DHCP relay-agent on a network via ISDN, it will result in increased line charges. This is because your computer connects to the ISDN line whenever a packet is transferred from the printer.
- If there is more than one DHCP server, use the same setting for all servers. The machine operates using data from the DHCP server that responds first.

Using AutoNet

If the printer IP address is not automatically assigned by the DHCP server, a temporary IP address starting with 169.254 and not used on the network can be automatically selected by the printer.

🖉 Note

- □ The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IP address on the configuration page. For more information about the configuration page, see *Printer Reference*.
- □ When AutoNet is running, the NetBIOS name is not registered on the WINS server.
- The machine cannot communicate with devices that do not have the AutoNet function. However, this machine can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.

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 using NetWare (file server)

If the NetWare file server and printer are on opposite sides of a router, packets are sent back and forth continuously, possibly incurring communications charges. Because packet transmission is a feature 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 machine instead.

Configuring the router

Filter packets so they do not pass over the dial-up router.

🖉 Note

- The MAC address of the filtering printer is printed on the printer configuration page. For more information about printing a configuration page, see *Printer Reference*.
- □ For more information about configuring the printer if the router cannot be configured, see the following instructions.

Configuring the printer with NetWare

1 Following the setup method described earlier in this manual, configure the file server.

2 Set the frame type for NetWare environment.

✓ Reference

For more information about selecting a frame type, see p.14 "Setting Up the Machine on a Network".

Configuring the printer without NetWare

When not printing, the network interface board sends packets over the network. Set NetWare to "inactive".

Reference

For more information about selecting a protocol, see p.14 "Setting Up the Machine on a Network". 6

When Using Network Utility

If the machine is connected to a network, observe the following points when setting up the machine or changing settings:

For more details, see the operating instructions and Help for the ScanRouter delivery software and DeskTopBinder Lite/Professional.

When a dial-up router is connected in a network environment

The settings for the delivery server to be connected must be made appropriately for the machine with the ScanRouter delivery software, Auto Document Link, or DeskTop-Binder Lite/Professional. In addition, set up connected devices using the I/O settings of Scan-Router V2 Administration Utility. If the network environment changes, make the necessary changes for the delivery server using the machine, the administration utility of client computers, Auto Document Link, and DeskTopBinder Lite/Professional. Also, set the correct information for the connected devices using the I/O settings of ScanRouter V2 Administration Utility.

∰Important

If the machine is set up to connect to the delivery server via a dial-up router, the router will dial and go online whenever a connection to the delivery server is made. Telephone charges may be incurred.

- When connected to a computer that uses dial-up access
 - Do not install the ScanRouter delivery software on a computer which uses dial-up access.
 - When using the ScanRouter delivery software, DeskTopBinder Lite/Professional, Auto Document Link, or a TWAIN driver on a computer with dial-up access, a dial-up connection may be performed when connecting to the delivery server and other equipment, depending on the setup. If the computer is set up to connect to the Internet automatically, the confirmation dialog box will not appear, and telephone charges may be incurred without your being aware of it. To prevent unnecessary connections, the computer should be set up so the confirmation dialog box always appears before establishing a connection. Do not make unnecessary connections when using the above listed software.

NetWare Printing

Form feed

You should not configure form feed on NetWare. Form feed is controlled by the printer driver on Windows. If NetWare form feed is configured, the printer might not work properly. If you want to change form feed settings, always configure them using Windows.

- Under Windows 95/98/Me, clear the **[Form feed]** check box on the **[Printer Settings]** tab in the printer properties dialog box.
- Under Windows 2000/XP and Windows Server 2003, clear the **[Form feed]** check box on the **[NetWare Settings]** tab in the printer properties dialog box.
- Under Windows NT 4.0, clear the [Form feed] check box on the [Net-Ware 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 using Windows.

- Under Windows 95/98/Me, clear the **[Enable banner]** check box on the **[Printer Settings]** tab in the printer properties dialog box.
- Under Windows 2000/XP and Windows Server 2003, clear the [Enable banner] check box on the [NetWare Settings] tab in the printer properties dialog box.
- Under Windows NT 4.0, clear the **[Enable banner]** check box on the **[NetWare Settings]** tab in the printer properties dialog box.

Printing after resetting the machine

After resetting the remote printer, the connection from the print server will be cut off for about 30-40 seconds before re-connecting. Depending on the NetWare specification, print jobs may be accepted, but they will not be printed during this interval.

When using the machine as a remote printer, wait about two minutes after resetting before attempting to print. 6

When the optional IEEE 802.11b interface unit Is Installed

When using the wireless LAN interface on the network, note the following:

When moving the machine

Detach the antennas when relocating the machine locally.

After moving the machine, reattach the antennas, ensuring that:

- The antennas are positioned clear of obstacles.
- There is 40 to 60 mm between the antennas, so that they do not touch.
- The exposure glass cover and the Auto Document Feeder (ADF) do not knock the antennas.

If the network area provides poor radio environment

Where radio wave conditions are bad, the network may not function due to interrupted or failed connections. When checking the wireless LAN signal and the access point, follow the procedure below to improve the situation:

- Position the access point nearer to the machine.
- Clear the space between access point and machine of obstructions.
- Move radio wave generating appliances, such as micro-waves, away from the machine and access point.

✓ Reference

For information about how to check radio wave status, see p.13 "Checking the machine's radio wave status".

For more information about access point radio wave conditions, refer to the access point manual.

Information about Installed Applications

Samba(Ver 2.2.2-1.1)

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Specifications

Interface	100BASE-TX, 10BASE-T, IEEE 1394 (IP over 1394) *1, IEEE 802.11b
Frame type	EthernetII, IEEE 802.2, IEEE 802.3, SNAP
Protocol	• Printer (LAN-Fax) TCP/IP LPR RSH RCP DIPRINT FTP IPP '2 '3 SMB '2 '5 IPX/SPX (NetWare) AppleTalk '4 NetBEUI • Internet Fax TCP/IP SMTP POP IMAP • Network Scanner TCP/IP RSH FTP SMTP POP SMB '6 • Document Server TCP/IP FTP HTTP • Management Function TCP/IP RSH RCP FTP SNMP HTTP • Management Function TCP/IP RSH RCP FTP SNMP HTTP TELNET (mshell) NBT DHCP DNS LDAP
SNMP v1/v2	MIB-II, PrinterMIB, HostResourceMIB, RicohPrivateMIB
SNMP v3	MIB-II, PrinterMIB, HostResourceMIB, RicohPrivateMIB, SNMP- FRAMEWORK-MIB, SNMP-TARGET-MIB, SNMP-NOTIFICA- TION-MIB, SNMP-USER-BASED-SM-MIB, SNMP-VIEW- BASED-ACM-MIB

- ^{*1} The optional IEEE 1394 interface board supports only TCP/IP.
- ^{*2} Use the SmartDeviceMonitor for Client port.
 ^{*3} To use IPP under Windows XP, Windows Server 2003, use the Standard IPP port. Note, in SmartDeviceMonitor for Client however, this port does not support digest access authentication.
 ^{*4} Triangle and the Best Service 2 module is installed
- ^{*4} This can be used when the PostScript 3 module is installed.
- ^{*5} Under Windows, this function can be used with TCP/IP and NetBEUI.
- ^{*6} SMB using NetBEUI is unavailable.

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