

920F/**920**SPF LD220F/LD220SPF **Aficio**[™] MP 201_F/201_{SPF}

Operating Instructions Network and System Settings Guide



- 1 System Settings
- 2 Connecting the Machine
- 3 Using a Printer Server
- 4 Monitoring and Configuring the Printer
- **5** Registering Addresses and Users for Facsimile / Scanner Functions
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Manuals for This Machine

Read this manual carefully before you use this machine.

Refer to the manuals that are relevant to what you want to do with the machine.

- Media differ according to manual.
- The printed and electronic versions of a manual have the same contents.
- Adobe Acrobat Reader/Adobe Reader must be installed in order to view the manuals as PDF files.
- A Web browser must be installed in order to view the html manuals.

About This Machine

Before using the machine, be sure to read the section of this manual entitled Safety Information.

This manual introduces the machine's various functions. It also explains the control panel, preparation procedures for using the machine, how to enter text, how to install the CD-ROMs provided, and how to replace paper, toner, staples, and other consumables.

Troubleshooting

Provides a guide for resolving common usage-related problems.

Copy Reference

Explains Copier functions and operations. Also refer to this manual for explanations on how to place originals.

Facsimile Reference

Explains Facsimile functions and operations.

Printer Reference

Explains Printer functions and operations.

Scanner Reference

Explains Scanner functions and operations.

Network and System Settings Guide

Explains how to connect the machine to a network, configure and operate the machine in a network environment, and use the software provided. Also explains how to change User Tools settings and how to register information in the Address Book.

Security Reference

This manual is for administrators of the machine. It explains security functions that you can use to prevent unauthorized use of the machine, data tampering, or information leakage. For enhanced security, we recommend that you first make the following settings:

- Install the Device Certificate.
- Enable SSL (Secure Sockets Layer) Encryption.

• Change the user name and password of the administrator using Web Image Monitor.

For details, see "Setting Up the Machine", Security Reference.

Be sure to read this manual when setting the enhanced security functions, or user and administrator authentication.

PostScript 3 Supplement

Explains how to set up and use PostScript 3.

Other manuals

- UNIX Supplement
- Quick Reference Copy Guide
- Quick Reference Printer Guide
- Quick Reference Fax Guide
- Quick Reference Scanner Guide
- Manuals for DeskTopBinder Lite
 - DeskTopBinder Lite Setup Guide
 - DeskTopBinder Introduction Guide
 - Auto Document Link Guide



- Manuals provided are specific to machine types.
- For "UNIX Supplement", please visit our Web site or consult an authorized dealer. This manual includes descriptions of functions and settings that might not be available on this machine.
- The following software products are referred to using general names:

| Product Name | General name |
|---|----------------------------------|
| DeskTopBinder Lite and DeskTopBinder Professional* 1 | DeskTopBinder |
| ScanRouter EX Professional*1 and ScanRouter EX Enterprise*1 | the ScanRouter delivery software |

^{*1} Optional

Notice

Important

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.

For good copy quality, the manufacturer recommends that you use genuine toner from the manufacturer.

The manufacturer shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your office products.

How to Read This Manual

Symbols

This manual uses the following symbols:



Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read these notes. They can be found in the "Safety Information" section of About This machine.

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

U Note

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[]

Indicates the names of keys that appear on the machine's display panel.

[]

Indicates the names of keys on the machine's control panel.

Names of Major Items

Major options of this machine are referred to as follows in this manual:

Auto Document Feeder → ADF

Note

Contents of this manual are subject to change without prior notice.

Two kinds of size notation are employed in this manual. With this machine refer to the inch version.

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

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

Depending on which country you are in, certain units may be optional. For details, please contact your local dealer.

This machine comes in two models which vary in copy/print speed. To ascertain which model you have, see "Machine Types", About This Machine.

About IP Address

In this manual, "IP address" covers both IPv4 and IPv6 environments. Read the instructions that are relevant to the environment you are using.

Laws and Regulations

Legal Prohibition

Do not copy or print any item for which reproduction is prohibited by law.

Copying or printing the following items is generally prohibited by local law:

bank notes, revenue stamps, bonds, stock certificates, bank drafts, checks, passports, driver's licenses.

The preceding list is meant as a guide only and is not inclusive. We assume no responsibility for its completeness or accuracy. If you have any questions concerning the legality of copying or printing certain items, consult with your legal advisor.

This machine is equipped with a function that prevents making counterfeit bank bills. Due to this function the original images similar to bank bills may not be copied properly.

Display Panel

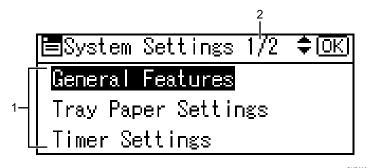
The display panel shows machine status, error messages, and function menus.



• A force or impact of more than 30 N (about 3 kgf) will damage the display panel.

If you press the [User Tools/Counter] key, the User Tools menu screen appears.

Using the System Settings menu screen as an example, this section explains how to use the machine's display panel.



DiatoLo

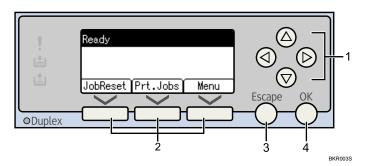
- The settings menu appears. Press the [▲] or [▼] key to scroll to the setting you want to specify or change, and then press the [OK] key to display the screen for specifying that setting.
- 2. The number of pages in the displayed settings menu appears. If you cannot see the entire menu, press the [♠] or [▼] key to scroll the screen.

Reading the Display and Using Keys

This section explains how to read the display and use the Selection keys.

If you press the [Copy] key, the initial copy screen appears.

Using the initial copy screen menu as an example, this sections how to use the machine's control panel.



1. Scroll keys

Press to move the cursor in each direction, step by step.

When the $[^{\blacktriangle}]$, $[^{\blacktriangledown}]$, or $[^{\blacktriangledown}]$ key appears in this manual, press the scroll key of the same direction.

2. Selection keys

Correspond to items at the bottom line on the display.

Example: The Printer display

- When the instruction "press [JobReset]" appears in this manual, press the left selection key.
- When the instruction "press [Prt.Jobs]" appears in this manual, press the center selection key.
- When the instruction "press [Menu]" appears in this manual, press the right selection key.

3. [Escape] key

Press to cancel an operation or return to the previous display.

4. [OK] key

Press to set a selected item or an entered numeric value.

Accessing User Tools

This section describes how to access User Tools menu.

User Tools allow you to change or set defaults.

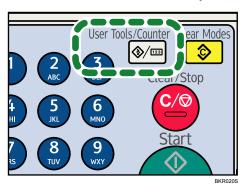


- Operations for system settings differ from normal operations. Always quit User Tools when you have finished.
- Any changes you make with User Tools remain in effect even if the main power switch or operation switch is turned off, or the [Clear Modes] key is pressed.

Changing Default Settings

This section describes how to change the settings of User Tools.

- If Administrator Authentication Management is specified, contact your administrator.
- 1. Press the [User Tools/Counter] key.



- 2. Select [System Settings] using the [▲] or [▼], and then press the [OK] key.
- 3. Change settings by following instructions on the display, and then press the [OK] key.



- Press the [Escape] key to return to the previous display.
- To cancel changes made to settings and return to the initial display, press the [User Tools/Counter] key.
- For details about specifying System Settings, see "System Settings".

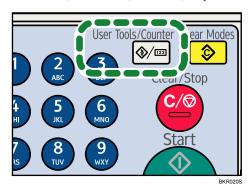
Reference

• p.21 "System Settings"

Exiting User Tools

This section describes how to end User Tools.

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



1. System Settings

This chapter describes user tools in the System Settings menu. For details on how to access System Settings, see "Accessing User Tools".

General Features

This section describes the User Tools in the General Features menu under System Settings.

Prog/Change/Del User Text

You can register text phrases you often use when specifying settings, such as ".com" and "Regards".

You can register up to 40 entries.

- Program/Change
 - 1. Press the [User Tools/Counter] key.
 - 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.
 - 3. Select [General Features] using [▲] or [▼], and then press the [OK] key.
 - 4. Select [Prog/Change/Del User Text] using [▲] or [▼], and then press the [OK] key.
 - Select [Program/Change] to program/Change text phrases using [▲] or [▼], and then press the [OK] key.
 - Select [*Not Programmed] using [▲] or [▼], and then press the [OK] key.
 To change programmed text phrases, select the text phrases you want to change.
 - Enter the text phrases you want to program, and then press the [OK] key.Enter the user text using up to 80 characters.
 - 8. Press the [User Tools/Counter] key.

Delete

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.
- 3. Select [General Features] using [▲] or [▼], and then press the [OK] key.
- 4. Select [Prog/Change/Del User Text] using [▲] or [▼], and then press the [OK] key.
- 5. Select [Delete] using [▲] or [▼], and then press the [OK] key.
- 6. Select the text phrases you want to delete using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.
- 7. Press [Yes].

To cancel deleting a text phrase, press [No].

- 8. Press the [Escape] key.
- 9. Press the [User Tools/Counter] key.

1

Panel Key Sound

The beeper (key tone) sounds when a key is pressed.

The default setting is [On].

Warm-up Beeper (copier)

You can have the beeper sound when the machine becomes ready to copy after leaving Energy Saver mode, or when the power is turned on.

The default setting is [On].

If the Panel Tone setting is [Off], the beeper does not sound, whatever the Warm Up Notice setting.

Copy Count Display (copier)

The copy counter can be set to show the number of copies made (count up) or the number of copies yet to be made (count down).

The default setting is [Up].

Function Priority

Specify the mode to be displayed immediately after the operation switch is turned on, or when System Reset mode is turned on.

The default setting is [Copier].

Print Priority

Gives print priority to the mode displayed.

The default setting is [Display mode].

When [Interleave] is selected, the current print job will be interrupted after a maximum of five sheets.

Function Reset Timer

You can set the length of time the machine waits before changing modes when using the multi-access function.

This is useful if you are making many copies and have to change settings for each copy. If you set a longer reset period, you can prevent interruption from other functions.

The Function Reset Timer setting is ignored if [Interleave] is set for Print Priority.

The default setting is [Set Time].

When you select [Set Time], enter the time (3-30 seconds, in 1 second increments) using the number keys.

The default setting for Set Time is 3 seconds.

Display Contrast

You can adjust the brightness of the display.

The default brightness setting is "4" (the halfway/medium setting).

Key Repeat

Set whether or not to repeat the functions of the $[^{\blacktriangle}]$, $[^{\blacktriangledown}]$, [Lighter], and [Darker] keys when those keys are pressed and held down.

The default setting is [Normal].

Measurement Unit

You can switch the measurement between [mm] and [inch].

The default setting is [inch].

■ Reference

• p.18 "Accessing User Tools"

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Tray Paper Settings

This section describes the User Tools in the Tray Paper Settings menu under System Settings.

• If the specified paper size differs from the actual size of the paper loaded in the paper tray, a misfeed might occur because the correct paper size was not detected.

Tray Paper Size: Tray 1 - 3

Select the size of the paper loaded in the paper tray.

The paper sizes you can set for tray 1 are as follows:

The paper sizes you can set for tray 2, 3 are as follows:

•
$$8^{1}/_{2}\times14^{\square}$$
, $8^{1}/_{2}\times13^{\square}$, $8^{1}/_{2}\times11^{\square}$, $8^{1}/_{4}\times14^{\square}$, $8^{1}/_{4}\times13^{\square}$, A4 $^{\square}$

The default setting is $A4\square / 8^1/2 \times 11\square$.

Printer Bypass Paper Size

Specify the size of the paper in the bypass tray when printing data from the computer.

The paper sizes you can set for bypass tray are as follows:

•
$$8^{1}/_{2} \times 14^{\square}$$
, $8^{1}/_{2} \times 13^{\square}$, $8^{1}/_{2} \times 11^{\square}$, $8^{1}/_{4} \times 13^{\square}$, $8 \times 13^{\square}$, $7^{1}/_{4} \times 10^{1}/_{2}^{\square}$, $5^{1}/_{2} \times 8^{1}/_{2}^{\square}$, $4^{1}/_{8} \times 9^{1}/_{2}^{\square}$, $3^{7}/_{8} \times 7^{1}/_{2}^{\square}$, A4 \square , A5 \square , A5 \square , B5 JIS \square , C5 Env \square , C6 Env \square , DL Env \square , 16K \square , [Custom Size]

The default setting is A4 \square / 8 1 /2×11 \square .

You can specify a custom size of between 90.0 - 216.0 mm (3.55 - 8.50 in) vertically, and between 139.0 - 600.0 mm (5.48 - 23.62 in) horizontally.

Paper Type: Bypass Tray

Sets the display so you can see what type of paper is loaded in the bypass tray.

The paper types you can set for the bypass tray are as follows:

[No Display (Plain Paper)], [Recycled Paper], [Color Paper], [Letterhead], [Label Paper], [Preprinted Paper], [Bond Paper], [Cardstock], [Prepunched Paper], [OHP (Transparency)], [Thick Paper], [Special Paper]

The default setting is [No Display (Plain Paper)].

Paper types you can set in the bypass tray for machines with the copy function only are plain paper, thick paper and OHP.

For details about the relations between possible paper sizes and thickness, see "Recommended Paper Sizes and Types", About This Machine.

For details about the recommended conditions for using thick paper, see "Thick Paper", About This Machine.

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Paper Type: Tray 1 - 3

Sets the display so you can see what type of paper is loaded in the paper tray 1 - 3.

The print function uses this information to automatically select the paper tray.

The paper types you can set for the paper tray 1 - 3 are as follows:

[No Display (Plain Paper)], [Recycled Paper], [Color Paper], [Letterhead], [Preprinted Paper],
 [Bond Paper], [Cardstock], [Prepunched Paper], [Special Paper]

The default setting is [No Display (Plain Paper)].

The default setting for [APS] (Auto Paper Select) is "On".

The default setting for [Duplex] is "On".

[APS] (Auto Paper Select) can only be selected for the copier function if [No Display (Plain Paper)] and [Recycled Paper] are selected. If [Off] is selected, Auto Paper Select is not valid.

For details about the relations between possible paper sizes and thickness, see "Recommended Paper Sizes and Types", About This Machine.

Ppr Tray Priority: Copier (copier)

Specify the tray to supply paper for output.

The default setting is [Tray 1].

Ppr Tray Priority: Fax (facsimile)

Specify the tray to supply paper for output.

The default setting is [Tray 1].

Ppr Tray Priority: Printer (printer)

Specify the tray to supply paper for output.

The default setting is [Tray 1].

■ Reference

p.18 "Accessing User Tools"

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Timer Settings

This section describes the user tools in the Timer Settings menu under System Settings.

Auto Off Timer

After a specified period has passed, following job completion, the machine automatically turns off, in order to conserve energy. This function is called "Auto Off".

The machine status after the Auto Off operation is referred to as "Off mode", or "Sleep mode".

For the Auto Off Timer, specify the time to elapse before Auto Off.

The time can be set from 1 to 240 minutes, using the number keys.

The default setting is "1" min.

Auto Off may not work when error messages appear.

Energy Saver Timer

The machine automatically enters Low Power mode automatically after a job is finished, and the selected time elapsed.

The time can be set from 1 to 240 minutes, using the number keys.

The default setting is "15" min.

Energy Saver may not work when error messages appear.

The machine automatically prints any fax or printer data received while in Energy Saver mode.

System Auto Reset Timer

The System Reset setting automatically switches the screen to that of the function set in Function Priority when no operations are in progress, or when an interrupted job is cleared. This setting determines the system reset interval.

The time can be set from 10 to 999 seconds, using the number keys.

The default setting is [On], "60" sec.

Copier Auto Reset Timer (copier)

Specifies the time to elapse before copier modes reset.

If [Off] is selected, the machine does not automatically switch to the user code entry screen.

The time can be set from 10 to 999 seconds, using the number keys.

The default setting is [On], "60" sec.

Facsimile Auto Reset Timer (facsimile)

Specify the time to elapse before the facsimile mode resets.

The time can be set from 30 to 999 seconds, using the number keys.

The default setting is "30" sec.

Printer Auto Reset Timer (printer)

Specify the time to elapse before the printer function resets.

The time can be set from 10 to 999 seconds, using the number keys.

The default setting is [On], "60" sec.

Scanner Auto Reset Timer (scanner)

Specify the time to elapse before the scanner function resets.

If [Off] is selected, the machine will not automatically switch to the user code entry screen.

The time can be set from 10 to 999 seconds, using the number keys.

The default setting is [On], "60" sec.

Set Date

Set the date for the copier's internal clock using the number keys.

To change between year, month, and day, press [⁴] and [▶] key.

Set Time

Set the time for the copier's internal clock using the number keys.

Enter the time using the 12-hour format (in 1 second increments).

To change between hours, minutes and seconds, press [◀] and [▶] key.

Auto Logout Timer

Specify whether or not to automatically log out a user when the user does not operate the machine for a specified period of time after logging in.

The time can be set from 60 to 999 seconds, in one second increments, using the number keys.

The default setting is [On], "180" sec.

Reference

• p.18 "Accessing User Tools"

Interface Settings

This section describes the user tools in the Interface Settings menu under System Settings.

Network

This section describes the user tools in the Network menu under Interface Settings.

Machine IPv4 Address

Specify the machine's IPv4 network address.

The default setting is [Auto-Obtain (DHCP)].

When you select [Specify], enter the IPv4 address and subnet mask as "xxx.xxx.xxx.xxx" ("x" indicates a number).

When you select [Specify], make sure that IPv4 address is different from that of other machines on the network.

To set the "IPv4 address", press [IP Add.].

To set the "subnet mask", press [Subnet M].

When the physical address (MAC address) appears, press [Mac Add.].

IPv4 Gateway Address

A gateway is a connection or interchange point between two networks.

Specify the gateway address for the router or host computer used as a gateway.

The default setting is "0.0.0.0".

Machine IPv6 Address

Displays the machine's IPv6 network address.

[Link-local Address]

The machine's specified link-local address appears.

• [Manual Config. Address]

The machine's manually configured address appears.

• [Stateless Address:] 1-5

The specified stateless address appears.

IPv6 Gateway Address

Displays the machine's IPv6 gateway address.

IPv6 Stateless Setting

Specify IPv6 Stateless Address Auto configuration.

The default setting is [Inactive].

DNS Configuration

Make settings for the DNS server.

The default setting is [Auto-Obtain (DHCP)].

When you select [Specify], enter the DNS Server IPv4 address as "xxx.xxx.xxx.xxx" ("x" indicates a number).

The default setting of DNS server 1-3 are "0.0.0.0".

DDNS Configuration

Specify the DDNS settings.

The default setting is [Active].

IPsec

Specify whether to activate or inactivate the machine's IPsec function.

The default setting is [Inactive].

Domain Name

Specify the domain name.

The default setting is [Auto-Obtain (DHCP)].

When you select [Specify], enter the domain name using up to 63 characters.

WINS Configuration

Specify the WINS server settings.

The default setting is [On].

If [On] is selected, enter the WINS Server IPv4 address as "xxx.xxx.xxx" ("x" indicates a number).

The default settings of WINS server 1-2 are "0.0.0.0".

If DHCP is in use, press [Scope ID] and then specify the scope ID.

Enter a scope ID using up to 31 characters.

Effective Protocol

Select the Protocol to use in the network.

The default setting for "IPv4" is [Active].

The default setting for "IPv6" is [Inactive].

The default setting for "NetWare" is [Inactive].

The default setting for "SMB" is [Active].

The default setting for "AppleTalk" is [Inactive].

"AppleTalk" appears when the optional PostScript 3 module is installed.

NCP Delivery Protocol

Select the protocol NCP delivery.

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The default setting is [TCP/IP Priority].

If you select [IPX Only] or [TCP/IP Only], you cannot switch the protocol even if you cannot connect with it. If "NetWare" in "Effective Protocol" is set to [Inactive], you can only use TCP/IP.

NW Frame Type

Select the frame type when you use NetWare.

The default setting is [Auto Select].

SMB Computer Name

Specify the SMB computer name.

Enter the computer name using up to 15 characters.

"*+,/:;<>=?[\]|. and spaces cannot be entered.

Do not set a computer name starting with RNP and rnp.

Use uppercase letters for alphabets.

SMB Work Group

Specify the SMB work group.

Enter the computer name using up to 15 characters.

"*+,/:;<>=?[\]|. and spaces cannot be entered.

Use uppercase letters for alphabet.

Ethernet Speed

Set the access speed for networks.

The default setting is [Auto Select].

Select a speed that matches your network environment. [Auto Select] should usually be selected.

| | 10Mbps Half Duplex | 10Mbps Full Duplex | 100Mbps Half Duplex | 100Mbps Full Duplex | Auto Select |
|------------------------|-----------------------|-----------------------|------------------------|------------------------|-------------|
| 10Mbps Half Duplex | • | _ | _ | _ | • |
| 10Mbps Full Duplex | _ | • | _ | _ | _ |
| 100Mbps Half Duplex | _ | _ | • | _ | • |
| 100Mbps Full Duplex | _ | _ | _ | • | - |
| Auto Select | • | _ | • | _ | • |

IEEE802.1X Auth.(Ethernet)

Set the IEEE 802.1X authentication for Ethernet.

The default setting is [Inactive].

For details about IEEE 802.1X Authentication, see "Configuring IEEE 802.1X".

Restr.IEEE802.1X Auth. Def.

You can return the IEEE 802.1X Authentication settings to their defaults.

LAN Type

When you have installed the wireless LAN interface board, select the method of connection.

The default setting is [Ethernet].

[LAN Type] is displayed when wireless LAN board is installed. If Ethernet and wireless LAN are both connected, the selected interface has priority.

Ping Command

Check the network connection with ping command using given IPv4 address.

If you fail to connect to the network, check the following, and then retry the ping command.

- Make sure that "IPv4" in [Effective Protocol] is set to [Active].
- Check that the machine with assigned IPv4 address is connected to the network.
- There is a possibility that the same IPv4 address is used for the specified equipment.

Permit SNMPv3 Communictn.

Set the encrypted communication of SNMPv3.

The default setting is [Encryption/Cleartext].

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

Permit SSL/TLS Comm.

Set the encrypted communication of SSL/TLS.

The default setting is [Ciphertext Priority].

If you set to [Ciphertext Only], you need to install the SSL certificate for the machine.

Host Name

Specify the host name.

Enter the host name using up to 63 characters.

Machine Name

Specify the machine name.

Enter the machine name using up to 31 characters.

Reference

• p.18 "Accessing User Tools"

• p.373 "Configuring IEEE 802.1X"

Parallel Interface

This section describes the user tools in the Parallel Interface menu under Interface Settings.

[Parallel Interface] is displayed when this machine is installed with the IEEE 1284 interface board.

Parallel Timing

Set the timing for the control signal of the parallel interface.

Normally, you do not need to change this setting.

The default setting is [ACK outside].

Parallel Comm. Speed

Set the communication speed for the parallel interface. If the speed is too high, data may not be transferred smoothly. If this happens, change the setting to [Standard].

The default setting is [High Speed].

Selection Signal Status

Set the level for the select signal of the parallel interface.

The default setting is [High].

Input Prime

Set whether to validate or invalidate the input prime signal upon reception.

Normally, you do not need to change this setting.

The default setting is [Inactive].

Bidirectional Comm.

Set the printer's response mode to a status acquisition request when using a parallel interface. If you experience problems using another manufacturer's machine, set this to [Off].

The default setting is [On].

When set to [Off], the bidirectional communication function will be disabled, and the printer driver will not be installed under Windows Auto Detect function.

Signal Control

Specify how error during printing or sending facsimile from the computer is to be dealt with.

Normally, you do not need to change this setting.

The default setting is [Job Acceptance Priority].

Reference

• p.18 "Accessing User Tools"

Wireless LAN

This section describes the user tools in the Wireless LAN menu under Interface Settings.

[Wireless LAN] is displayed when this machine is installed with the wireless LAN interface board.

Be sure to make all settings simultaneously.

Communication Mode

Specify the communication mode of the wireless LAN.

The default setting is [Infrastructure Mode].

SSID Setting

Specify SSID to distinguish the access point in [Infrastructure Mode] or [802.11 Ad-hoc Mode].

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

If blank is specified in [802.11 Ad-hoc Mode], "ASSID" appears.

Ad-hoc Channel

Specify the channel to use when [802.11 Ad-hoc Mode] has been selected. Set the channel that matches the type of wireless LAN being used.

The following channels are available:

- IEEE 802.11b/g(2.4GHz)
 - [1]-[13] channels
- IEEE 802.11a(5GHz)

[36], [40], [44], and [48] channels

The default setting is [11].

The channel in use might differ depending on the country.

Security Method

Specify the encryption of the Wireless LAN.

The default setting is [Off].

If you select [WEP], always enter WEP key. If you select [WPA], specify the encryption and authentication methods.

Specify "WPA", when [Communication Mode] is set to [Infrastructure Mode].

WEP

If you select [WEP], enter WEP key.

When using 64 bit WEP, up to 10 characters can be used for hexadecimal and up to five characters for ASCII. When using 128 bit WEP, up to 26 characters can be used for hexadecimal and up to 13 characters for ASCII.

The number of characters that can be entered is limited to 10 or 26 for hexadecimal and 5 or 13 for ASCII.

WPA

- Encryption Method
 Select either [TKIP] or [CCMP (AES)].
- Authentication Method

Select either [WPA-PSK], [WPA], [WPA2-PSK], or [WPA2].

If you selected [WPA-PSK] or [WPA2-PSK], enter the pre-shared key (PSK) of 8-63 characters in ASCII code.

When [WPA] or [WPA2] are selected, authentication settings and certificate installation settings are required. For details about setting methods, see "Configuring IEEE 802.1X".

Wireless LAN Signal

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

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

Restore Defaults

You can return the wireless LAN settings to their defaults.



- p.18 "Accessing User Tools"
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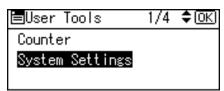
Print I/F Settings List

This section describes how to print the configuration page.

You can check items related to the network environment.

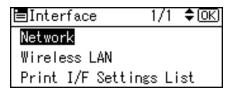
The configuration page shows the current network settings and network information.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.





4. Select [Print I/F Settings List] using [▲] or [▼], and then press the [OK] key.



5. Press the [Start] key.

The configuration page is printed.

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



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File Transfer

This section describes the user tools in the File Transfer menu under System Settings.

Delivery Option

Enable or disable sending stored or scanned documents to the ScanRouter delivery server.

The default setting is [Off].

Specify this option when selecting whether or not to use the ScanRouter delivery software. If you do, you will have to preregister I/O devices in the ScanRouter delivery software.

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 IPv4 address.

The default setting for "Port No." is "25".

Enter the server name using up to 127 characters. Spaces cannot be entered.

Enter port number between 1 and 65535 using the number keys, and then press the [#] key.

The SMTP server shares the same port number with the Direct SMTP server.

SMTP Authentication

Specify SMTP authentication (PLAIN, LOGIN, CRAMMD5, DIGEST-MD5). When sending e-mail to an SMTP server, you can enhance the SMTP server security level using authentication that requires entering the user name and password.

If the SMTP server requires authentication, set [SMTP Authentication] to [On], and then specify the user name, password and encryption.

Enter the user name and password to be set for the Administrator's e-mail address when using Internet Fax.

The default setting is [Off].

• Enter the user name using up to 191 characters.

Spaces cannot be entered. Depending on the SMTP server type, "realm" must be specified. Add "@" after the user name, as in "user name@realm".

- Enter the E-mail address using up to 128 characters.
- Enter the password using up to 128 characters.

Spaces cannot be entered.

• Select Encryption as follows:

"Encrypt"-[Auto]

Use if the authentication method is PLAIN, LOGIN, CRAM-MD5, or DIGEST-MD5.

"Encrypt"-[On]

Use if the authentication method is CRAMMD5 or DIGEST-MD5.

"Encrypt"-[Off]

Use if the authentication method is PLAIN, or LOGIN.

POP before SMTP

Specify POP authentication (POP before SMTP).

When sending e-mail to an SMTP server, you can enhance the SMTP server security level by connecting to the POP server for authentication.

The default setting is [Off].

If you set POP before SMTP to [On], specify the waiting time after authentication, user name, e-mail address, and password.

• Wait Time after Auth.: "300" msec.

Specify [Wait Time after Auth.] from zero to 10,000 milliseconds, in increments of one millisecond.

User Name

Enter the user name using up to 191 characters. Spaces cannot be entered.

E-mail Address

Enter the E-mail Address using up to 128 characters. Spaces cannot be entered.

Password

Enter the password using up to 128 characters. Spaces cannot be entered.

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.

If you select [On], enter server name in POP3/IMAP4 Settings. Also, check POP3 port number in Email Communication Port.

Reception Protocol

Specify the Reception Protocol for receiving Internet Fax.

The default setting is [POP3].

POP3/IMAP4 Settings

Specify the POP3/IMAP4 server name for receiving Internet faxes.

The specified POP3/IMAP4 server name is used for [POP before SMTP].

The default setting is [Auto].

Server Name

If DNS is in use, enter the host name.

If DNS is not in use, enter the POP3/IMAP4 or server IPv4 address.

Enter POP3/IMAP4 server name using up to 127 characters. Spaces cannot be entered.

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• Select Encryption as follows:

"Encrypt"-[Auto]

Password encryption is automatically set according to the POP/IMAP server settings.

"Encrypt"-[On]

Encrypt password.

"Encrypt"-[Off]

Do not encrypt password.

Admin, E-mail Address

Specify the Administrator's E-mail Address.

If a failure occurs in the machine or consumables need to be replaced, e-mail messages are sent to the Administrator's E-mail Address by E-mail Notification function.

On e-mailed scanned documents, if the sender is not specified this appears as the sender's address.

When sending e-mail under the Internet fax function, administrator's e-mail address will appear as the sender's address under the following conditions:

- The sender has not been specified and the machine's e-mail address has not been registered.
- The specified sender is not registered in the machine's address book and the machine's e-mail address has not been registered.

When conducting SMTP authentication for the transmitted files under the Internet fax function, the Administrator's E-mail Address will appear in the "From:" box. If you have specified the user name and e-mail address in [SMTP Authentication], make sure to specify this setting.

Enter up to 128 characters.

On e-mailed scanned documents, if [Auto Specify Sender Name] is [Off], specify the sender.

E-mail Communication Port

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

The default setting for POP3 is "110".

The default setting for IMAP4 is "143".

Enter a port number between 1 and 65535 using the number keys, and then press the [#] key.

E-mail Recept. Interval

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

The default setting is [On], "15 minute (s)".

If [On] is selected, the time can be set from 2 to 1440 minutes in increments of one minute.

Max. Recept. E-mail Size

Specify the maximum reception e-mail size for receiving Internet faxes.

The default setting is "2" MB.

Enter a size from 1 - 50 MB in increments of one megabyte.

E-mail Storage in Server

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

The default setting is [Off].

Default User Name/PW(Send)

Specify the user name and password required when sending scan files directly to a shared folder on a computer running Windows, to an FTP server, or to a NetWare server.

Enter in up to 128 characters.

Auto Specify Sender Name

Set whether or not to specify the name of the sender when sending e-mail.

The default setting is [Off].

On

If you select [On], the specified e-mail address will appear in the "From:" box. If you do not specify the sender's address, the administrator's e-mail address will appear in the "From:" box.

If you do not specify the sender when sending a file by e-mail under the fax function, or if the specified e-mail address is not registered in the machine's address book, the machine's e-mail address will appear in the "From:" box. If the machine does not have an e-mail address, the administrator's e-mail address will appear in the "From:" box.

Off

If you select [Off], the specified e-mail address will appear in the "From:" box, but you cannot send e-mail without specifying the sender's e-mail address. Under the fax function, you cannot send e-mail if the specified sender's e-mail address is not registered in the machine's address book.

Fax E-mail Account

Specify e-mail address, user name and password for receiving Internet faxes.

The default setting is [Do not Receive].

If you select [Receive], and then press [Emai.Ad.], [User], and [Password].

• E-mail Address

Enter an e-mail address using up to 128 characters.

• User Name

Enter a user name using up to 191 characters.

Password

Enter a password using up to 128 characters.



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Administrator Tools

This section describes the user tools in the Administrator Tools menu under System Settings.

Administrator Tools are used by the administrator. To change these settings, contact the administrator.

We recommend specifying Administrator Authentication before making Administrator Tools settings.

Address Book Management

You can add, change or delete information registered in the Address Book.

For details, see "Address Book".

• Program/Change

You can register and change names as well as user codes.

Name

You can register a name, key display, registration number, and title selection.

- Reg. No.
- Auth. Info

You can register a user code, and specify the functions available to each user code. You can also register user names and passwords to be used when accessing an LDAP server.

Auth. Protect

You can register a protection code.

Fax Settings

You can register a fax number, international TX mode, label insertion.

• E-mail Settings

You can register e-mail address.

Folder Info

You can register the protocol, path, port number, and server name.

• Register Group to

You can put names registered in the Address Book into a group.

Delete

You can delete a name from the Address Book.

You can register up to 150 names.

You can register up to 100 user codes.

You can also register and manage names in the Address Book using Web Image Monitor or SmartDeviceMonitor for Admin.

Prgrm./Change/Delete Group

Names registered in the Address Book can be added into a group. You can then easily manage the names registered in each group.

• Program/Change

You can register and change groups.

• Group Name

You can register a name, key display, registration number, and title selection.

- Reg. No.
- · Auth. Protect

You can register a protection code.

• Register Group to

You can put groups registered in the Address Book into a group.

Delete

You can delete a group from the Address Book.

You can register up to 10 groups.

You can also register and manage groups in the Address Book using Web Image Monitor or SmartDeviceMonitor for Admin.

Use SmartDeviceMonitor for Admin provided with the printer scanner unit.

Address Book:Print List

You can print the destination list registered in the Address Book.

Destination List

Prints the list of names in the Address Book.

• Group Destination List

Prints the list of groups in the Address Book.

Quick Dial Labels

Prints the quick dial label.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [♠] or [♥], and then press the [OK] key.
- 3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.
- 4. Select [Address Book:Print List] using [▲] or [▼], and then press the [OK] key.
- Select a desired list to print using [▲] or [▼], and then press the [OK] key.
 If the selection screen of the print method is displayed, press [Duplex] or [1 Sided].
- 6. Press the [Start] key.

The list is printed.

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

Display/Print Counter

Allows you to view and print the number of prints.

Display

Displays the number of prints for each function (Total, Copier, Printer, Fax Prints, Send Total:Clr, Send Total:B&W, Fax TX, Scan Send:Clr, Scan Send:B&W, Duplex).

Print

Prints out a list of the number of prints made under each function.

Disp./Print User Counter

Allows you to view and print the numbers of prints accessed with user codes, and to set those values to 0.

The number of prints may differ from the counter values shown in [Disp./Print User Counter].

Display

Press $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$ to show all the numbers of prints.

- Copier Counter
- Printer Counter
- Facsimile Print
- Fax TX Page Counter
- Scanner Send Counter:F.Clr
- Scanner Send Counter:B&W
- Print
 - All Users

Prints the counter values for all the users.

Per User

Prints the counter values for each user.

- Clear
 - All Users

Sets the counter value for all the users.

• Per User

Sets the counter value for each user.

User Auth. Management

- Off
- User Code Auth.

Using User Code Authentication, you can limit the available functions and supervise their use.

When using User Code Authentication, register the user code.

Using the Printer PC Control function, you can obtain a log of prints corresponding to the codes entered using the printer driver.

For details about Basic Authentication, Windows Authentication, LDAP Authentication, and Integration Server Authentication, consult your administrator.

- Restrict Functions
 - Copier, Printer, Printer: Auto Program, Fax, Scanner
- Printer Job Authentication
 Enter, Simple (Limitation), Simple (All)
- Basic Auth.
- Windows Auth.
- LDAP Auth.
- Integration Svr. Auth.

The default setting is [Off].

Admin. Auth. Management

For details about this function, consult your administrator.

Key Counter Management

Specify the functions you want to manage with the key counter.

- Copier
- Facsimile
- Printer
- Scanner

External Charge Unit Mng.

For details about this function, consult your administrator.

Enhanced Ext. Charge Unit.

For details about this function, consult your administrator.

Extended Security

You can specify whether or not to use the extended security functions. For details about the extended security functions, consult your administrator.

Prog/Chnge/Del LDAP Server

By registering the LDAP server, you can search the LDAP server's address book for an recipient's e-mail address when sending files by e-mail using the scanner or fax functions.

- Name
- Server Name

- · Search Base
- Port No.
- SSL (Use Secure Connection)
- Authentication
- UserName
- Password
- Realm Name
- Search Conditions
- Search Options

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.

This function supports LDAP Version 2.0 and 3.0.

To use the LDAP server, select [On] under LDAP Search.

For details about how to program the LDAP Server, see "Programming the LDAP server".

LDAP Search

Specify whether or not to use the LDAP server for searching.

The default setting is [Off].

If you select [Off], LDAP server list will not appear on the searching display.

Prog./Change/Delete Realm

Program the realm to be used for Kerberos authentication.

- Realm Name
- KDC Server Name
- Domain Name

Be sure to set both the realm name and KDC server name when programming a realm.

For details about [Prog./Change/Delete Realm], see "Programming the Realm".

AOF (Always On)

Specify whether or not to use Auto Off.

The default setting is [On].

Firmware Version

You can check the version of the software installed in this machine.

Network Security Level

For details about this function, consult your administrator.

Auto Erase Memory Setting

For details about this function, consult your administrator.

Erase All Memory

For details about this function, consult your administrator.

Delete All Logs

For details about this function, consult your administrator.

Transfer Log Setting

For details about this function, consult your administrator.

Fixed USB Port

Specify whether or not to fix the USB port.

The default setting is [Off].

If a computer with the printer driver installed is connected to another device of the same model through the USB interface, selecting [Level 1] for this option eliminates the additional installation of the driver to the computer. If you want to select [Level 2], contact your sales or service representative.

Reference

- p.18 "Accessing User Tools"
- p.46 "Programming the LDAP server"
- p.56 "Programming the Realm"
- p.225 "Address Book"

Programming the LDAP server

This section describes how to specify the LDAP server settings.

This function supports LDAP version 2.0 and 3.0.

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.
- Authentication
- Search Conditions

If [Kerberos Authentication] is selected, be sure to set the "User Name", "Password", and the "Realm Name".

If [Digest Authentication] or [Cleartext Authentication] is selected, be sure to set the "User Name" and "Password".

To use the LDAP server in Administrator Tools, select [On] under "LDAP Search".

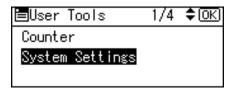
The LDAP version 2.0 does not support Digest Authentication.

To select Kerberos Authentication, a realm must be registered in advance.

Programming the LDAP server

This section describes how to program the LDAP server.

- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



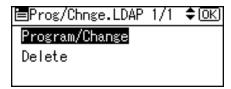
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



4. Select [Prog/Chnge/Del LDAP Server] using [▲] or [▼], and then press the [OK] key.

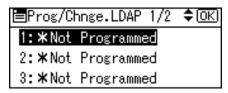


5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.

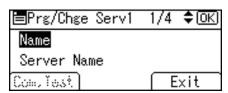


Select the LDAP server you want to program or change using [▲] or [▼], and then press the [OK] key.

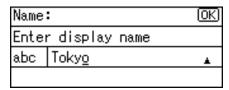
When programming the server, select [*Not Programmed].



Select [Name] using [▲] or [▼], and then press the [OK] key.



8. Enter the name, and then press the [OK] key.



9. Select [Server Name] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



10. Enter the server name, and then press the [OK] key.

| Server Name: | | (OK) |
|--------------|----------------|------|
| Ente | r server name. | |
| ABC | TKO | |
| | | |

11. Select [Search Base] using [▲] or [▼], and then press the [OK] key.

Select the root folder to start the search from e-mail addresses registered in the selected folder which is the search targets.

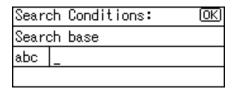


12. Enter the search base, and then press the [OK] key.

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 your server environment and enter any required specifications.

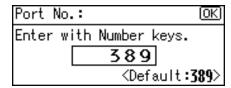


13. Select [Port No.] using [▲] or [▼], and then press the [OK] key.

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



14. Enter the port number using the number keys, and then press the [OK] key.



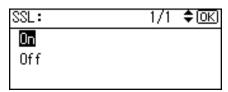
15. Select [SSL] using [▲] or [▼], and then press the [OK] key.



16. Select [On] using [▲] or [▼], and then press the [OK] key.

Use SSL to communicate with the LDAP server.

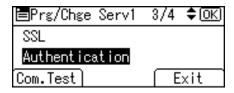
To use SSL, the LDAP server must support SSL.



When SSL is set to [On], the port number automatically changes to "636".

If you do not use SSL, security problems may occur. SSL setting must be enabled on this machine. For details, consult your network administrator.

17. Select [Authentication] using [▲] or [▼], and then press the [OK] key.



 Select [Kerberos Authentication], [Digest Authentication], [Cleartext Authentication], or [Off] using [▲] or [▼], and then press the [OK] key.

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

Authentication settings must comply with your server's authentication settings. Check your server settings before setting this machine.

[Digest Authentication] is available only with LDAP Version 3.0.

Authentication: 1/2 \$(OK)

Kerberos Authentication

Digest Authentication

Cleartext Authentication

If you select [Kerberos Authentication], a password is sent using an encryption process that prevents passwords from being revealed during transmission to the KDC server where authentication occurs.

If you select [Digest Authentication], a password is sent using an encryption process that prevents passwords from being revealed during transmission to the LDAP server.

If you select [Cleartext Authentication], a password is sent to the LDAP server as is, without any encryption processing.

If you select [Kerberos Authentication], proceed to step 19 to 21, and then proceed to step 22.

If you select [Digest Authentication] or [Cleartext Authentication], proceed to step 19 to 20, and then proceed to step 22.

If you select [Off], proceed to step 22.

19. Enter the User Name, and then press the [OK] key.

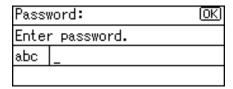
| User | Name: | (OK) |
|------------------|---------------|------|
| Enter user name. | | |
| abc | Toky <u>o</u> | |
| | | |

When [Kerberos Authentication], [Digest Authentication], or [Cleartext Authentication] 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.

Procedures for the user name setting differ depending on server environment. Check your server environment before making the setting.

Example: Domain Name\User Name, User Name@Domain Name, CN=Name, OU=Department Name, DC=Server Name

20. Enter the Password, and then press the [OK] key.

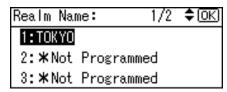


The user name and password are required for administrator authentication to access the LDAP server.

You can connect to the LDAP server using a user name and password stored in the Address Book. For details, see "Registering SMTP and LDAP Authentication".

If you select [Digest Authentication] or [Cleartext Authentication], proceed to step 22.

21. Select the Realm using [▲] or [▼], and then press the [OK] key.

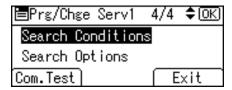


22. Press [Com.Test].



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

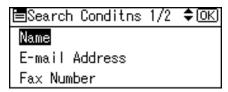
- 23. Press [Exit].
- 24. Select [Search Conditions] using [▲] or [▼], and then press the [OK] key.



If the connection test fails, check your settings and try again.

This function does not check search conditions or the search base.

25. Select necessary search items such as [Name], [E-mail Address], [Fax Number], [Company Name], and [Department Name] using [▲] or [▼], and then press the [OK] key.



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

26. Enter attribute, and then press the [OK] key.

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 address from the LDAP server Address Book.

| Name | : | | (<u>0K</u>) |
|------|--------------|----|---------------|
| Ente | r characters | to | search. |
| abc | <u>en</u> | | |
| | | | |

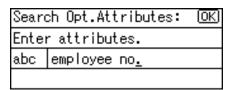
- 27. Press [Exit].
- 28. Select [Search Options] using [▲] or [▼], and then press the [OK] key.



29. Enter attribute, and then press the [OK] key.

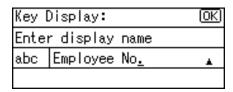
To search the LDAP server date using a keyword other than prepared keywords such as Name, Email Address, FAX Number, Company Name, and Department Name, specify the attribute for the keyword registered in your LDAP server, and the name to be displayed on the control panel during the search. For example,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

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

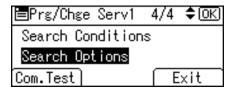


30. Enter the Key Display, and then press the [OK] key.

The registered "Key Display" appears as a keyword for searching LDAP.



31. Press [Exit].



■ Reference

• p.341 "Registering SMTP and LDAP Authentication"

Changing the LDAP server

This section describes how to change the programmed LDAP server.

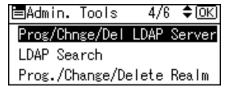
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



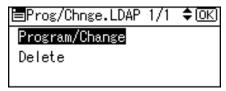
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



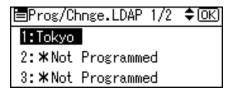
4. Select [Prog/Chnge/Del LDAP Server] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



Select the LDAP server you want to program or change using [▲] or [▼], and then press the [OK] key.



- 1
- 7. Change the settings as necessary.
- 8. Press the [OK] key after changing each item.
- 9. Press [Exit].
- 10. Press the [User Tools/Counter] key.

Deleting the LDAP server

This section describes how to delete the programmed LDAP server.

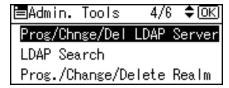
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



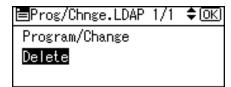
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



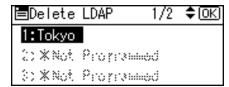
4. Select [Prog/Chnge/Del LDAP Server] using [▲] or [▼], and then press the [OK] key.



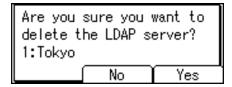
Select [Delete] using [▲] or [▼], and then press the [OK] key.



6. Select the LDAP server you want to delete using [▲] or [▼], and then press the [OK] key.



7. Press [Yes].



Programming the Realm

This section describes how to specify the Realm settings.

Program the realm to be used for Kerberos authentication.

A realm is the network area in which Kerberos authentication is used. After confirming the network environment, specify the necessary items.

You can register up to 5 realms.

Programming the Realm

This section describes how to program the Realm.

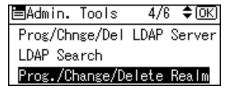
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



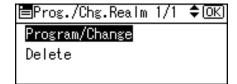
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



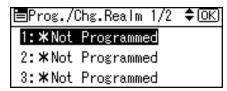
Select [Prog./Change/Delete Realm] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Select [*Not Programmed] using [▲] or [▼], and then press the [OK] key.



7. Select [Realm Name], [KDC Server Name], or [Domain Name] using [▲] or [▼], and then press the [OK] key.



If you select [Realm Name], proceed to step 8.

If you select [KDC Server Name], proceed to step 9.

If you select [Domain Name], proceed to step 10.

8. Enter the Realm Name, and then press the [OK] key.

Enter the realm name, or host name.

You can enter a realm name using up to 64 characters.

If you enter the realm name, proceed to step 11.

9. Enter the KDC Server Name, and then press the [OK] key.

Enter the KDC server name, host name, or IPv4 address.

You can enter a KDC server name using up to 64 characters.

If you enter the KDC server name, proceed to step 11.

10. Enter the Domain Name, and then press the [OK] key.

Enter the domain name, or host name.

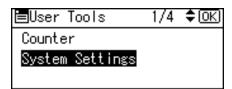
You can enter a domain name using up to 64 characters.

11. Press [End].



This section describes how to change the programmed Realm.

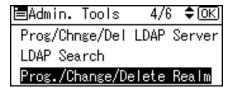
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



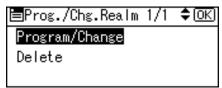
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



Select [Prog./Change/Delete Realm] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.

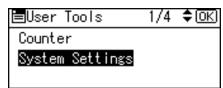


- 6. Select the Realm you want to change using [▲] or [▼], and then press the [OK] key.
- 7. Set each item as necessary.
- 8. Press the [OK] key after setting each item.
- 9. Press the [User Tools/Counter] key.

Deleting the Realm

This section describes how to delete the programmed Realm.

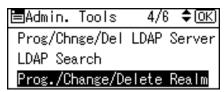
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



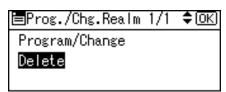
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



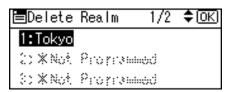
Select [Prog./Change/Delete Realm] using [▲] or [▼], and then press the [OK] key.



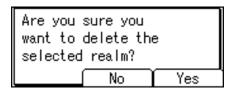
5. Select [Delete] using [▲] or [▼], and then press the [OK] key.



6. Select the realm you want to delete using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



7. Press [Yes].



2. Connecting the Machine

This chapter describes how to connect the machine to the network and specify the network settings.

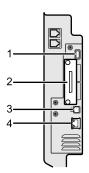
Connecting to the Interfaces

This section explains how to identify the machine's interface and connect the machine according to the network environment.

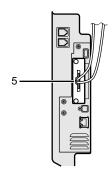


• A network interface cable with a ferrite core must be used for RF interference suppression.

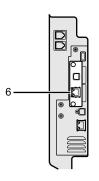
When the IEEE1284 interface board(optional) is installed.



When the wireless LAN board (optional) is installed.



When the Gigabit Ethernet interface board (optional) is installed.



BKR005S

1. USB Host Interface

Port for connecting the USB cable. It is used to connect device such as a digital camera to this machine.

2. IEEE 1284 port (optional)

Port for connecting the IEEE 1284 interface cable.

3. USB 2.0 port

Port for connecting the USB2.0 interface cable.

4. 10BASE-T/100BASE-TX port

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

5. Wireless LAN port (optional)

Port for using the wireless LAN.

6. Gigabit Ethernet port (optional)

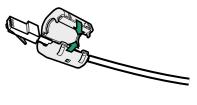
Port for using the 1000BASE-T, 100BASE-TX, or 10BASE-T cable.

Connecting to the Ethernet Interface

This section describes how to connect Ethernet interface cable to the Ethernet interface.

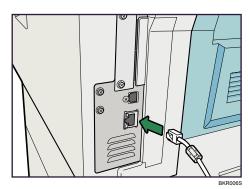


- If the main power switch is on, turn it off.
- Use the following Ethernet cables.
 - Unshielded Twisted Pair Cable (UTP) or Shielded Twisted Pair Cable (STP) and Category type
 5 or more
- 1. A ferrite core for the Ethernet interface cable is supplied with this machine. Attach the ferrite core at the machine end of the Ethernet cable



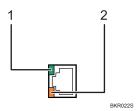
BKR010S

- 2. Make sure the main power switch of the machine is off.
- 3. Connect the Ethernet interface cable to the 10BASE-T/100BASE-TX port.



4. Connect the other end of the Ethernet interface cable to a network connection device such as a hub.

5. Turn on the main power switch of the machine.



1. Indicator (green)

Lights up green when the machine is connected correctly to the network.

2. Indicator (yellow)

Lights up yellow when 100BASE-TX is in operation. Goes off when 10BASE-T is in operation.



- For details about how to turn on the main power switch, see "Turning On the Power", About This Machine.
- For details about installing the printer driver, see "Preparing the Machine", Printer Reference.

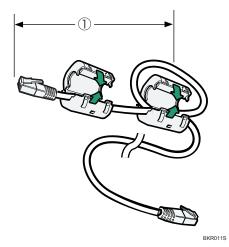
Connecting to the Gigabit Ethernet Interface

This section describes how to connect the Ethernet interface cable to the Gigabit Ethernet port.

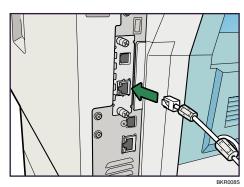


- If the main power switch is on, turn it off.
- Use the following Ethernet cables.
 - When using 100BASE-TX/10BASE-T:
 Unshielded Twisted Pair Cable (UTP) or Shielded Twisted Pair Cable (STP) and Category type
 5 or more
 - When using 1000BASE-T:
 Unshielded Twisted Pair Cable (UTP) or Shielded Twisted Pair Cable (STP) and Category type
 5e or more

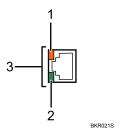
1. Attach one ferrite core at the machine end of the Ethernet cable, and then attach the other ferrite core about 10 cm (4 inch) (1) from this core.



- 2. Make sure the main power switch of the machine is off.
- 3. Connect the Ethernet interface cable to the Gigabit Ethernet port.



- 4. Connect the other end of the Ethernet interface cable to a network connection device such as a hub.
- 5. Turn on the main power switch of the machine.



1. Indicator (yellow)

When 100BASE-TX is operating, the LED is lit yellow. When 10BASE-T is operating, it is turned off.

2. Indicator (green)

When 10BASE-T is operating, the LED is lit green. When 100BASE-TX is operating it is turned off.

3. Indicators (both green and yellow)

When 1000BASE-T is operating, both LED are lit.



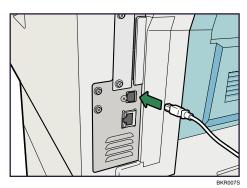
- For details about how to turn on the main power switch, see "Turning On the Power", About This
- For details about installing the printer driver, see "Preparing the Machine", Printer Reference.

Connecting to the USB Interface

This section describes how to connect the USB2.0 interface cable to the USB2.0 port.



- Properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- 1. Connect the USB2.0 interface cable to the USB2.0 port.



2. Connect the other end to the USB2.0 port on the host computer.



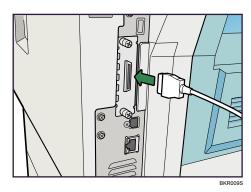
- This machine does not come with a USB interface cable. Make sure you purchase the appropriate cable for the machine and your computer.
- The USB2.0 interface board is supported by Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, Mac OS 9.2.2, Mac OS X 10.3.3 or higher.
- For details about installing the printer driver, see "Preparing the Machine", Printer Reference.

Connecting to the IEEE 1284 Interface

This section describes how to connect the IEEE 1284 interface cable to the IEEE 1284 interface board.



- Properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- 1. Make sure the main power switch on the machine is off.
- 2. Turn off the main power switch of the host computer.
- 3. Connect the IEEE 1284 interface cable to the IEEE 1284 port.



You might have to use a conversion adapter to connect the cable to the interface. For details about acquiring a conversion adapter, consult your sales or service representative.

- 4. Connect the other end of the cable into the interface connector on the host computer.
 - Check the shape of the connector to the computer. Connect the cable firmly.
- 6. Turn on the host computer.

5. Turn on the main power switch of the machine.

When using Windows 2000/XP/Vista and Windows Server 2003/2003 R2/2008, a printer driver installation screen might appear when the computer is turned on. If this happens, click [Cancel] on the screen.



- For details about how to turn on the main power switch, see "Turning On the Power", About This Machine.
- For details about installing the printer driver, see "Preparing the Machine", Printer Reference.

Connecting to the Wireless LAN Interface

This section describes how to connect to the wireless LAN interface.



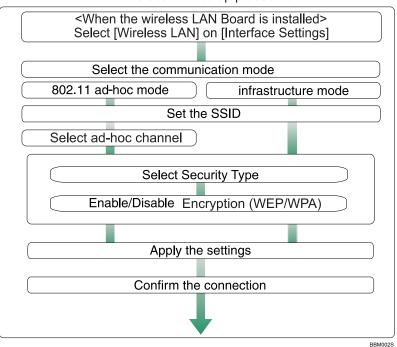
- Check the machine's IPv4 address and subnet mask, or the IPv6 address settings.
- For details about how to set the IPv4 address and subnet mask from the control panel of the machine,
 see "Interface Settings".
- Before using this machine with a wireless LAN interface, you must select [Wireless LAN] in [LAN Type].

Setup procedure

This section describes how to setup wireless LAN interface.

Set up wireless LAN according to the following procedure:

■ Wireless LAN setup procedure





- 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.
- When [802.11 Ad-hoc Mode] is selected in Communication mode, select the channel for [Channel].
 Set a channel that matches the type of wireless LAN being used. For details about setting the channel,
 see "Interface Settings".
- You can specify either "WEP" or "WPA" to the Security Method.
- Specify "WPA", when [Communication Mode] is set to [Infrastructure Mode].

- If you select the [WPA] option for Security Method, select one of the following: [WPA-PSK], [WPA], [WPA2-PSK], or [WPA2]. If you select [WPA-PSK] or [WPA2-PSK], enter your PSK. If you select [WPA] or [WPA2], authentication settings and certificate installation settings are required. For details about setting methods, see "Configuring IEEE 802.1X".
- For details about how to specify wireless LAN settings from the control panel on the machine, see "Interface Settings".

Reference

- p.28 "Interface Settings"
- p.373 "Configuring IEEE 802.1X"

Checking the signal

This section describes how to check the machine's radio wave status.

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

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.
- 3. Select [Interface Settings] using [▲] or [▼], and then press the [OK] key.
- 4. Select [Wireless LAN] using [▲] or [▼], and then press the [OK] key.
- Select [Wireless LAN Signal] using [▲] or [▼], and then press the [OK] key.
 The machine's radio wave status appears.
- 6. After checking radio wave status, press [Exit].
- 7. Press the [User Tools/Counter] key.

2

Network Settings Required to Use the Printer/ LAN-Fax

This section lists the network settings required for using the printer or LAN-Fax function.



• These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for using the printer or LAN-Fax function with an Ethernet connection. For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | NCP Delivery Protocol | As required |
| Interface Settings/Network | NW Frame Type | As required |
| Interface Settings/Network | SMB Computer Name | As required |
| Interface Settings/Network | SMB Work Group | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Network | Machine Name | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [LAN Type] is displayed when the wireless LAN board is installed. If Ethernet and wireless LAN are both connected, the selected interface has priority.

■ Reference

• p.28 "Interface Settings"

Wireless LAN

This section lists the settings required for using the printer or LAN-Fax function with a wireless LAN connection.

For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | NCP Delivery Protocol | As required |
| Interface Settings/Network | NW Frame Type | As required |
| Interface Settings/Network | SMB Computer Name | As required |
| Interface Settings/Network | SMB Work Group | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Network | Machine Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Security Method | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.

■ Reference

• p.28 "Interface Settings"

Network Settings Required to Use Internet Fax

This section lists the network settings required for using Internet Fax.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for using Internet Fax with an Ethernet connection. For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|---------------------------|----------------------|
| Interface Settings/Network | Host Name | As required |
| File Transfer | SMTP Server | Necessary |
| File Transfer | SMTP Authentication | As required |
| File Transfer | POP before SMTP | As required |
| File Transfer | Reception Protocol | As required |
| File Transfer | POP3/IMAP4 Settings | As required |
| File Transfer | Admin. E-mail Address | As required |
| File Transfer | E-mail Communication Port | Necessary |
| File Transfer | E-mail Recept. Interval | As required |
| File Transfer | Max. Recept. E-mail Size | As required |
| File Transfer | E-mail Storage in Server | As required |
| File Transfer | Fax E-mail Account | Necessary |

Note

- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [LAN Type] is displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- SMTP Server and Fax E-mail Account must be specified in order to send Internet Fax.
- When POP before SMTP is set to [On], also make settings for Reception Protocol and POP3/IMAP4 Settings.
- When SMTP Authentication is set to [On], also make setting for Admin. E-mail Address.
- POP3/IMAP4 Settings, E-mail Communication Port, and Fax E-mail Account must be specified in order to receive Internet Fax.
- When setting POP before SMTP to [On], check POP3 port number in E-mail Communication Port.

Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Wireless LAN

This section lists the settings required for using Internet Fax with a wireless LAN connection. For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | Security Method | As required |
| File Transfer | SMTP Server | Necessary |
| File Transfer | SMTP Authentication | As required |

| Menu | User Tool | Setting Requirements |
|---------------|---------------------------|----------------------|
| File Transfer | POP before SMTP | As required |
| File Transfer | Reception Protocol | As required |
| File Transfer | POP3/IMAP4 Settings | As required |
| File Transfer | Admin. E-mail Address | As required |
| File Transfer | E-mail Communication Port | Necessary |
| File Transfer | E-mail Recept. Interval | As required |
| File Transfer | Max. Recept. E-mail Size | As required |
| File Transfer | E-mail Storage in Server | As required |
| File Transfer | Fax E-mail Account | Necessary |

U Note

- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- SMTP Server and Fax E-mail Account must be specified in order to send Internet Fax.
- When POP before SMTP is set to [On], you must also make settings for Reception Protocol and POP3/ IMAP4 Settings.
- When SMTP Authentication is set to [On], you must also make settings for Admin. E-mail Address.
- POP3/IMAP4 Settings, E-mail Communication Port, and Fax E-mail Account must be specified in order to receive Internet Fax.
- When setting POP before SMTP to [On], check POP3 port number in E-mail Communication Port.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Network Settings Required to Use E-mail Function

This section lists the network settings required for sending e-mail.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for sending e-mail with an Ethernet connection.

For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|---------------------------|----------------------|
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| File Transfer | SMTP Server | Necessary |
| File Transfer | SMTP Authentication | As required |
| File Transfer | POP before SMTP | As required |
| File Transfer | Reception Protocol | As required |
| File Transfer | POP3/IMAP4 Settings | As required |
| File Transfer | Admin. E-mail Address | As required |
| File Transfer | E-mail Communication Port | As required |

U Note

- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [LAN Type] is displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- When POP before SMTP is set to [On], also make settings for Reception Protocol and POP3/IMAP4 Settings.
- When setting POP before SMTP to [On], check POP3 port number in E-mail Communication Port.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Wireless LAN

This section lists the settings required for sending e-mail with an Wireless LAN connection.

For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | Security Method | As required |
| File Transfer | SMTP Server | Necessary |
| File Transfer | SMTP Authentication | As required |
| File Transfer | POP before SMTP | As required |
| File Transfer | Reception Protocol | As required |
| File Transfer | POP3/IMAP4 Settings | As required |
| File Transfer | Admin. E-mail Address | As required |
| File Transfer | E-mail Communication Port | As required |



• For the Effective Protocol setting, check that the protocol you want to use is set to [Active].

- [LAN Type] is displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- When POP before SMTP is set to [On], you must also make settings for Reception Protocol and POP3/ IMAP4 Settings.
- When setting POP before SMTP to [On], check POP3 port number in E-mail Communication Port.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Network Settings Required to Use Scan to Folder Function

This section lists the network settings required for sending files.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for sending files with an Ethernet connection.

For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| File Transfer | Default User Name/PW(Send) | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [LAN Type] is displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Wireless LAN

This section lists the settings required for sending files with an Wireless LAN connection. For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | Necessary |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |

| Menu | User Tool | Setting Requirements |
|---------------------------------|----------------------------|----------------------|
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | Security Method | As required |
| File Transfer | Default User Name/PW(Send) | As required |

U Note

- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

2

Network Settings Required to Use the Network Delivery Scanner

This section lists the network settings required for delivering data to the network.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for delivering data to the network with an Ethernet connection. For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------|----------------------|
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| File Transfer | Delivery Option | Necessary |

U Note

- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- If Delivery Option is set to [On], check that IPv4 Address is specified.

Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Wireless LAN

This section lists the settings required for delivering data to the network with an wireless LAN connection. For details about how to specify the settings, see "Interface Settings" and "File Transfer".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | Security Method | As required |
| File Transfer | Delivery Option | Necessary |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. When both Ethernet and wireless LAN are connected, the selected interface takes precedence.
- If Delivery Option is set to [On], check that IPv4 Address is specified.

■ Reference

- p.28 "Interface Settings"
- p.36 "File Transfer"

Network Settings Required to Use WSD Scanner

This section lists the network settings required for using WSD Scanner function.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for using WSD Scanner function with an Ethernet connection. For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | NCP Delivery Protocol | As required |
| Interface Settings/Network | NW Frame Type | As required |
| Interface Settings/Network | SMB Computer Name | As required |
| Interface Settings/Network | SMB Work Group | As required |
| Interface Settings/Network | Ethernet Speed | As required |

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Network | Machine Name | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [LAN Type] is displayed when the wireless LAN board is installed. If Ethernet and wireless LAN are both connected, the selected interface has priority.

Reference

• p.28 "Interface Settings"

Wireless LAN

This section lists the settings required for using WSD Scanner function with a wireless LAN connection. For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|----------------------------|------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | Machine IPv6 Address | As required |
| Interface Settings/Network | IPv6 Gateway Address | As required |
| Interface Settings/Network | IPv6 Stateless Setting | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | NCP Delivery Protocol | As required |
| Interface Settings/Network | NW Frame Type | As required |
| Interface Settings/Network | SMB Computer Name | As required |
| Interface Settings/Network | SMB Work Group | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Network | Machine Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Security Method | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. If both Ethernet and wireless LAN are connected, the selected interface takes precedence.

■ Reference

• p.28 "Interface Settings"

2

Network Settings Required to Use Network TWAIN Scanner

This section lists the network settings required for using the TWAIN Scanner under the network environment.



 These settings should be made by the system administrator, or with the advice of the system administrator.

Ethernet

This section lists the settings required for using the network TWAIN Scanner with an Ethernet connection. For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|----------------------------|----------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | Ethernet Speed | As required |
| Interface Settings/Network | IEEE802.1X Auth.(Ethernet) | As required |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |



• For the Effective Protocol setting, check that the protocol you want to use is set to [Active].

- When both Ethernet and wireless LAN are connected, the selected interface takes precedence.

• [LAN Type] is displayed when the wireless LAN interface board is installed.

Reference

• p.28 "Interface Settings"

Wireless LAN

This section lists the settings required for using the network TWAIN Scanner a wireless LAN connection. For details about how to specify the settings, see "Interface Settings".

| Menu | User Tool | Setting Requirements |
|---------------------------------|---------------------------|----------------------|
| Interface Settings/Network | Machine IPv4 Address | Necessary |
| Interface Settings/Network | IPv4 Gateway Address | As required |
| Interface Settings/Network | DNS Configuration | As required |
| Interface Settings/Network | DDNS Configuration | As required |
| Interface Settings/Network | IPsec | As required |
| Interface Settings/Network | Domain Name | As required |
| Interface Settings/Network | WINS Configuration | As required |
| Interface Settings/Network | Effective Protocol | Necessary |
| Interface Settings/Network | LAN Type | Necessary |
| Interface Settings/Network | Permit SNMPv3 Communictn. | As required |
| Interface Settings/Network | Permit SSL/TLS Comm. | As required |
| Interface Settings/Network | Host Name | As required |
| Interface Settings/Wireless LAN | Communication Mode | Necessary |
| Interface Settings/Wireless LAN | SSID Setting | As required |
| Interface Settings/Wireless LAN | Ad-hoc Channel | As required |
| Interface Settings/Wireless LAN | Security Method | As required |



- For the Effective Protocol setting, check that the protocol you want to use is set to [Active].
- [Wireless LAN] and [LAN Type] are displayed when the wireless LAN interface board is installed. When both Ethernet and wireless LAN are connected, the selected interface takes precedence.

■ Reference

• p.28 "Interface Settings"

Using Utilities to Make Network Settings

This section describes how to make network settings using utilities.

You can also specify network settings using utilities such as Web Image Monitor, SmartDeviceMonitor for Admin, and telnet.

U Note

- These settings should be made by the system administrator, or with the advice of the system administrator.
- For details about using Web Image Monitor, see "Using Web Image Monitor".
- For details about using SmartDeviceMonitor for Admin, see "Using SmartDeviceMonitor for Admin".
- For details about using telnet, see "Using telnet".

Reference

- p.117 "Using Web Image Monitor"
- p.131 "Using SmartDeviceMonitor for Admin"
- p.156 "Remote Maintenance by telnet"

Interface Settings

This section describes how to make Interface settings using utilities.

Change settings by using Web Image Monitor, SmartDeviceMonitor for Admin, and telnet.

[Network] → [Machine IPv4 Address] → [Auto-Obtain (DHCP)]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Machine IPv4 Address] → [Specify] → "IPv4 Address"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Machine IPv4 Address] → [Specify] → "Subnet Mask"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [IPv4 Gateway Address]

• Web Image Monitor: Can be used for specifying the setting.

- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Machine IPv6 Address] → "Manual Config. Address"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [IPv6 Gateway Address]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [IPv6 Stateless Setting]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [DNS Configuration] → [Auto-Obtain (DHCP)]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [DNS Configuration] → [Specify] → "DNS Server 1-3"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [DDNS Configuration]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [IPsec]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Domain Name] → [Auto-Obtain (DHCP)]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.

• telnet: Can be used for specifying the setting.

[Network] → [Domain Name] → [Specify] → "Domain Name"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [WINS Configuration] → [On] → "Primary WINS Server"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [WINS Configuration] → [On] → "Second. WINS Server"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [WINS Configuration] → [On] → "Scope ID"

- · Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [WINS Configuration] → [Off]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Effective Protocol] → "IPv4"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: You can specify the TCP/IP settings if SmartDeviceMonitor for Admin is communicating with the machine using IPX/SPX.
- telnet: Can be used for specifying the setting.

[Network] → [Effective Protocol] → "IPv6"

- · Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Effective Protocol] → "NetWare"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: You can specify the IPX/SPX settings if SmartDeviceMonitor for Admin is communicating with the machine using TCP/IP.

• telnet: Can be used for specifying the setting.

[Network] → [Effective Protocol] → "SMB"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Effective Protocol] → "AppleTalk"

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [NCP Delivery Protocol] → [IPX Priority]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [NCP Delivery Protocol] → [TCP/IP Priority]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [NCP Delivery Protocol] → [IPX Only]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [NCP Delivery Protocol] → [TCP/IP Only]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

$[Network] \rightarrow [NW Frame Type] \rightarrow [Auto Select]$

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [NW Frame Type] → [Ethernet II]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] \rightarrow [NW Frame Type] \rightarrow [Ethernet 802.2]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

$[Network] \rightarrow [NW Frame Type] \rightarrow [Ethernet 802.3]$

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

$[Network] \rightarrow [NW Frame Type] \rightarrow [Ethernet SNAP]$

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [SMB Computer Name]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [SMB Work Group]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Ethernet Speed]

- Web Image Monitor: Cannot be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [IEEE802.1X Auth.(Ethernet)]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [LAN Type] → [Ethernet]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [LAN Type] → [Wireless LAN]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Ping Command]

- Web Image Monitor: Cannot be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [Permit SNMPv3 Communictn.] → [Encryption Only]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Permit SNMPv3 Communictn.] → [Encryption/Cleartext]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Permit SSL/TLS Comm.] → [Ciphertext Only]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [Permit SSL/TLS Comm.] → [Ciphertext Priority]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [Permit SSL/TLS Comm.] → [Ciphertext/Cleartext]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[Network] → [Host Name]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Can be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Network] → [Machine Name]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Wireless LAN] → [Communication Mode] → [802.11 Ad-hoc Mode]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Wireless LAN] → [Communication Mode] → [Infrastructure Mode]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Wireless LAN] → [SSID Setting]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Wireless LAN] → [Ad-hoc Channel]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

[Wireless LAN] → [Security Method]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Can be used for specifying the setting.

File Transfer

This section describes how to make File Transfer settings using utilities.

Change settings by using Web Image Monitor, SmartDeviceMonitor for Admin, and telnet.

[File Transfer] → [SMTP Server]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [SMTP Authentication]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [POP before SMTP]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Reception Protocol] → [POP3]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Reception Protocol] → [IMAP4]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Reception Protocol] → [SMTP]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [POP3/IMAP4 Settings]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Admin. E-mail Address]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [E-mail Communication Port]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [E-mail Recept. Interval]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Max. Recept. E-mail Size]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [E-mail Storage in Server]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Default User Name/PW(Send)]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

[File Transfer] → [Fax E-mail Account]

- Web Image Monitor: Can be used for specifying the setting.
- SmartDeviceMonitor for Admin: Cannot be used for specifying the setting.
- telnet: Cannot be used for specifying the setting.

2

Connecting the Machine to a Telephone Line and Telephone

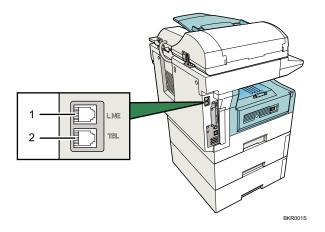
This section describes how to connect the machine to the telephone lines and select the line type.

Connecting the Telephone Line

To connect the machine to a telephone line, use a snap-in modular type connector.



Make sure the connector is the correct type before you start.



- 1. G3 (analog) line interface connector
- 2. External telephone connector

Selecting the Line Type

Select the line type to which the machine is connected. There are two types: tone and pulse dial. Select the line type using Administrator Tools.



• This function is not available in some regions.

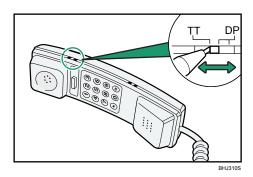
Connecting the Optional Handset or an External Telephone

You can connect the optional handset or an external telephone to the machine.

You can use it for telephone calls.

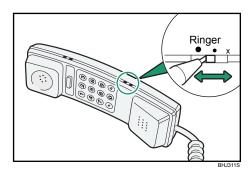
When you use the optional handset or an external telephone with the [On Hook Dial] key for telephone
calls, you can not talk with the other party without pressing the [On Hook Dial] key after talking off
the receiver.

Specifying the handset line type



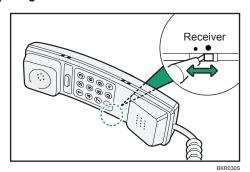
The switch on the handset should be in the appropriate position-TT (Tone Dialing) or DP (Pulse Dialing).

Adjusting the handset bell volume



Adjust the handset ringer volume using the volume switch.

Adjusting the handset receiver volume



2

Adjusting the handset receiver volume using the volume switch.



• Some external telephones may not be connected or may suffer reduced functionality.

3. Using a Printer Server

This chapter describes how to configure the machine as a network printer.

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.



- Under Windows XP Professional or Windows Server 2003/2003 R2, to change printer properties
 in the [Printer] or [Printers and Faxes] window, you need Printer Management access authentication;
 under Windows Vista or Windows Server 2008, Full Control access authentication. Log on to the file
 server as an Administrator or member of the PowerUsers group.
- 1. Open the [Printers and Faxes] window from the [Start] menu.
 - The [Printers and Faxes] window appears.
- 2. Click the icon of the machine you want to use. On the [File] menu, click [Properties]. The printer properties appear.
- 3. On the [Sharing] tab, click [Share this printer].
- 4. To share the machine with users using a different version of Windows, click [Additional Drivers...].
 - If you have installed an alternative driver by selecting [Share As:] during the printer driver installation, this step can be ignored.
- 5. Click [OK], and then close the printer properties.

3

Using NetWare

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



IPv6 can not be used on this function.

Setting procedure

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



- 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 name ... CAREE
 - 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 SmartDeviceMonitor for Admin to set the NetWare printing environment.

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.



- The NetWare Client provided by Novell is required to set the printing environment using SmartDeviceMonitor for Admin under the following environments:
 - NDS or Bindery mode in Windows 2000

- NDS or Bindery mode in Windows XP
- For details about SmartDeviceMonitor for Admin, see "Using SmartDeviceMonitor for Admin".

Reference

• p.131 "Using SmartDeviceMonitor for Admin"

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.

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and password appears.

- Enter the login user name and password, and then click [Login].
 For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
 - Print Server Name: Enter the NetWare print server name. To use the interface board as a print server, enter the name of a print server that is not active on the file server. Use up to 47 characters.
 - Logon Mode: Specify whether to designate a file server or NDS tree when logging on to NetWare.
 - File Server Name: When a file server name is entered here, only the specified file server is searched for. This item is mandatory. Use up to 47 characters.
 - NDS Tree: To enable NDS mode, enter the name of the NDS tree you want to log on to. Use up to 32 alphanumeric characters.
 - NDS Context Name: To enable NDS mode, enter the print server context. Use up to 127 characters.
 - Operation Mode: Specify whether to use the interface board as a print server or a remote printer.
 - Remote Printer No.: This item is effective when the interface board is specified as a remote printer.
 Enter the same number as the number of the printer to be created on the print server (0 to 254 characters).
 - Job Timeout: When the interface board is used as a NetWare remote printer, the printer cannot
 detect when a print job ends. Therefore, the printer terminates printing when a certain period of
 time has elapsed since it last received print data (i.e., when it has not received print data for a
 certain period of time). Specify here this period of time (3 to 255 seconds). The initial value is
 15 (seconds).
 - Frame Type: Select the frame type from the drop-down menu.
 - Print Server Protocol: Select the protocol for NetWare from the drop-down menu.
 - NCP Delivery Protocol: Select the protocol for NCP delivery.

5. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several before restarting Web Image Monitor.

6. Click [Logout].



• To check the configuration is correct, 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 against the configuration page printed from the printer.
- 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.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.



• p.117 "Using Web Image Monitor"

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

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

- 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. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and password appears.

- Enter the login user name and password, and then click [Login].For details about the login user name and password, consult your network administrator.
- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
 Configuration is now complete. Wait several minutes before restarting Web Image Monitor.
- 6. Click [Logout].

7. Quit Web Image Monitor.



• To check the configuration is correct, enter the following from the command prompt:

F:> USFRIIST

- 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 against the
 configuration page printed from the printer. 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.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.

Reference

• p.156 "Remote Maintenance by telnet"

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

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



- When creating a queued print server in a pure IP environment of NetWare 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 IPv4.

Setting up using NWadmin

- 1. From Windows, start NWadmin.
 - For details about NWadmin, see the NetWare manuals.
- Select the object in which the print queue is located in the directory tree, and then click [Create] on the [Object] menu.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].
- 6. 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].
- 8. 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)].
- 10. In the [Printer name] box, enter the printer name.
- 11. Select the [Define additional properties] check box, and then click [Create].
- 12. Click [Assignments], and then click [Add] in the [Assignments] area.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- 14. Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- 15. Click [Manual load] in the [Communication type] area, and then click [OK].
- 16. Check the settings, and then click [OK].
- 17. Select a context specified, 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 Server (Non NDPS)].
- 19. In the [Print Server Name] box, enter the print server name.
 Use the same print server name specified using SmartDeviceMonitor for Admin.
- 20. Select the [Define additional properties] check box, and then click [Create].
- 21. Click [Assignments], and then click [Add] in the [Assignments] area.
- 22. In the [Available objects] box, click the queue you created, and then click [OK].
- 23. Check the settings, and then click [OK].
- 24. 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]

Setting up using Web Image Monitor

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and login password appears.

3. Enter the user login user name and password, and then click [Login].

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

- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
 Configuration is now complete. Wait several minutes before restarting Web Image Monitor.
- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the configuration page printed from the printer.
- 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.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.

Reference

• p.117 "Using Web Image Monitor"

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

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

Setting up using PCONSOLE

1. 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.

- From the [Available Options] menu, select [Print Queue Information], and then press the [Enter] key.
- 4. Press [Insert] key, and then enter a print queue name.
- 5. Press [Esc] key to return to the [Available Options] menu.
- 6. Set up the network connection to a printer.
- On the [Available Options] menu, click [Print Server Information], and then press the [Enter] key.
- 8. 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 SmartDeviceMonitor for Admin.

- 9. From the [Print Server Information] menu, select [Print Server Configuration].
- 10. From the [Print Server Configuration] menu, select [Printer Configuration].
- 11. Select the printer indicated as [Not Installed].

Use the same printer number specified as the remote printer number using SmartDeviceMonitor for Admin.

12. 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.

13. As type, select [Remote Parallel, LPT1].

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

- 14. Press the [Esc] key, and then click [Yes] on the confirmation message.
- 15. Press the [Esc] key to return to [Print Server Configuration Menu].
- 16. Assign print queues to the created printer.
- 17. From [Print Server Configuration Menu], select [Queues Serviced By Printer].
- 18. Select the printer created.
- 19. Press the [Insert] key to select a queue serviced by the printer.

You can select several queues.

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

Following these steps, check that the queues are assigned.

- 21. 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]

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

Setting up using Web Image Monitor

- 1. Start Web Image Monitor.
- 2. Click [Login].

A dialog box for entering the login user name and login password appears.

3. Enter the login user name and password, and then click [Login].

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

4. Click [Configuration] in the left area, and then click [NetWare Print Settings].

5. Confirm the settings, and then click [Device Name].

Configuration is now complete. Wait several minutes before restarting Web Image Monitor.

- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the configuration page printed from the printer.
- 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.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.

Reference

• p.117 "Using Web Image Monitor"

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.

- 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 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.
- 3. In the [Class of new object] box, click [Print Queue], and then click [OK].
- 4. In the [Print Queue Name] box, enter the name of the print queue.
- 5. In the [Print Queue Volume] box, click [Browse].
- 6. In the [Available objects] box, click the volume in which the print queue is created, and then click [OK].
- 7. Check the settings, and then click [Create].
- 8. 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.

- 9. In the [Class of new object] box, click [Printer], and then click [OK]. For NetWare 5, click [Printer (Non NDPS)].
- 10. In the [Printer name] box, enter the printer name
- 11. 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.
- 13. In the [Available objects] box, click the queue you created, and then click [OK].
- 14. Click [Configuration], click [Parallel] in the [Printer type] list, and then click [Communication].
- 15. Click [Manual load] in the [Communication type] area, and then click [OK]. Check the settings, and then click [OK].
- 16. Set up the network connection to a print server. Select a context specified, and then click [Create] on the [Object] menu.
- 17. In the [Class of new object] box, click [Print Server], and then click [OK]. For NetWare 5, click [Print Server (Non NDPS)].
- 18. In the [Print Server Name:] box, enter the print server name.
 Use the same print server name specified using SmartDeviceMonitor for Admin.
- 19. Select the [Define additional properties] check box, and then click [Create].
- 20. Assign the printer to the created print server. Click [Assignments], and then click [Add] in the [Assignments] area.
- 21. In the [Available objects] box, click the queue you created, and then click [OK].
- 22. In the [Printers] area, click the printer you assigned, and then click [Printer Number].
- 23. 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 SmartDeviceMonitor for Admin.
- 24. 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]

- 25. Enter the printer server name as the context name, and then press the [Enter] key.
- 26. Select the printer name on the context menu, and then press the [Enter] key.

Setting up using Web Image Monitor

Start Web Image Monitor.

3

2. Click [Login].

A dialog box for entering the login user name and login password appears.

3. Enter the user login name and password, and then click [Login].

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

- 4. Click [Configuration] in the left area, and then click [NetWare Print Settings].
- Confirm the settings, and then click [Device Name].
 Configuration is now complete. Wait several minutes before restarting Web Image Monitor.
- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- If you cannot identify the printer you want to configure, check the printer name against the configuration page printed from the printer.
- 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.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.

Reference

• p.117 "Using Web Image Monitor"

4. Monitoring and Configuring the Printer

This chapter describes how to monitor and configure 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
- · Interrupting currently printing jobs
- · Resetting the machine
- 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 SP2 or higher

Firefox 1.0 or higher

Mac OS:

Firefox 1.0 or higher

Safari 1.0, 1.2, 2.0 (412.2) or higher

Web Image Monitor supports screen reader software. We recommend JAWS 7.0 or a later version.



- Safari cannot be used on Mac OS X 10.4.1.
- Display and operation problems can occur if you do not enable JavaScript and cookies, or if you are
 using a non-recommended Web Browser.

- If you are using a proxy server, change the Web browser settings. Contact your administrator for information about the settings.
- If you click your browser's back button but the previous page does not appear, click the browser's refresh button and try again.
- Machine information is not automatically updated. To perform an update, click [Refresh] in the display
 area.
- We recommend using Web Image Monitor in the same network.
- You cannot access to the machine from outside the firewall.
- When using the machine under DHCP, the IP address may be automatically changed by the DHCP server settings. Enable DDNS setting on the machine, and then connect using the machine's host name.
 Alternatively, set a static IP address to the DHCP server.
- If the HTTP port is disabled, connection to the machine using the machine's URL cannot be established. SSL setting must be enabled on this machine. For details, consult your network administrator.
- When using the SSL encryption protocol, enter "https://(machine's IP address or host name)/".
- Internet Explorer must be installed on your computer. Use the most recent available version. We recommend Internet Explorer 6.0 or later.
- When you are using Firefox, fonts and colors may be different, or tables may be out of shape.
- When using a host name under Windows Server 2003/2003 R2/2008, or Windows Vista with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.
- To use JAWS 7.0 under Web Image Monitor, you must be running Windows OS and Microsoft Internet Explorer 5.5 SP2, or a later version.

Displaying Top Page

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

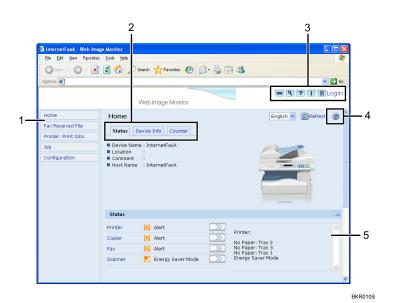


- When entering an IPv4 address, do not begin segments with zeros. For example: If the address is "192.168.001.010", you must enter it as "192.168.1.10".
- 1. Start your Web browser.
- Enter "http://(machine's IP address or host name)/" in your Web browser's URL bar.
 Top Page of Web Image Monitor appears.

If the machine's host name has been registered on the DNS or WINS server, you can enter it.

When setting SSL, a protocol for encrypted communication, under environment which server authentication is issued, enter "https://(machine's IP address or host name)/".

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



1. Menu area

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

2. Tab area

Details about each menu appear.

3. Header area

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

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

4. Help

Use Help to view or download Help file contents.

5. 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.



 When using a host name under Windows Server 2003/2003 R2/2008, or Windows Vista with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.

When User Authentication is Set

Login (using Web Image Monitor)

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

- 1. Click [Login].
- Enter a login user name and password, and then click [Login].
 For details about the login user name and password, consult your network administrator.



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

Log out (using Web Image Monitor)

Click [Logout] to log off.



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

About Menu and Mode

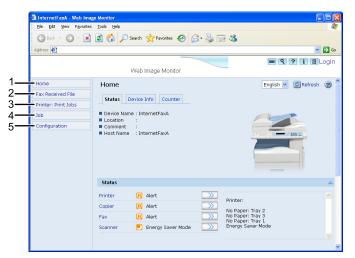
There are two modes available with Web Image Monitor: guest mode and administrator mode.

Displayed Items may differ depending on the machine type.

Guest Mode

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

4



BKR011S

1. Home

The [Status], [Device Info], and [Counter] tab are displayed. Details of the tab menu are displayed on the work area.

2. Fax Received File

Displays received fax files.

3. Printer: Print Jobs

Allows you to display list of Sample Print, Locked Print, Hold Print, and Stored Print jobs.

4. Job

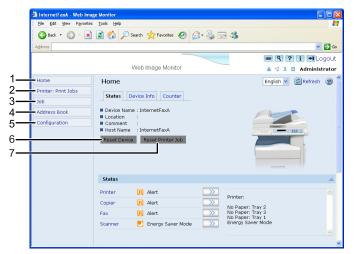
Displays all print files.

5. Configuration

Displays current machine and network settings.

Administrator Mode

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



BKR012S

1. Home

The [Status], [Device Info], and [Counter] tab are displayed. Details of the tab menu are displayed on the work area.

2. Printer: Print Jobs

Allows you to display list of Locked Print, Sample Print, Hold Print, and Stored Print jobs.

3. Job

Displays all print files.

4. Address Book

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

5. Configuration

System settings for the machine, interface and security can be made.

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.

7. Reset Printer Job

Click to reset current print jobs and print jobs in queue. 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 window for entering the login user name and password appears.

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

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

List of Setting Items

The following tables show Web Image Monitor items that can be viewed or modified depending on the selected mode on the Web browser. Select one of the following modes to log on Web Image Monitor:

- Guest mode: logged on as a user
- Administrator mode: logged on as an administrator

Home

Status

| Menu | Guest mode | Administrator mode |
|-------------------|------------|--------------------|
| Reset Device | None | Modify |
| Reset Printer Job | None | Modify |
| Status | Read | Read |
| Toner | Read | Read |
| Input Tray | Read | Read |
| Output Tray | Read | Read |

Device Info

| Menu | Guest mode | Administrator mode |
|------------------|------------|--------------------|
| Functions | Read | Read |
| System | Read | Read |
| Version | Read | Read |
| Printer Language | Read | Read |

Counter

| Menu | Guest mode | Administrator mode |
|--------|------------|--------------------|
| Copier | Read | Read |

| Menu | Guest mode | Administrator mode |
|-------------------|------------|--------------------|
| Printer | Read | Read |
| Fax | Read | Read |
| Send/TX Total | Read | Read |
| Fax Transmission | Read | Read |
| Scanner Send | Read | Read |
| Other Function(s) | Read | Read |

Fax Received File

| | Menu | Guest mode | Administrator mode |
|---|------------------|-------------|--------------------|
| F | ax Received File | Read/Modify | None |

Printer: Print Jobs

| Menu | Guest mode | Administrator mode |
|----------------|-------------|--------------------|
| Print Job List | Read/Modify | Read/Modify |

Job

Job List

| Menu | Guest mode | Administrator mode |
|----------------------|------------|--------------------|
| Current/Waiting Jobs | Read | Read/Modify |
| Job History | Read | Read |

Printer

| Menu | Guest mode | Administrator mode |
|----------------|------------|--------------------|
| Spool Printing | Read | Read |
| Job History | Read | Read |
| Error Log | Read | Read |

Fax History

| Menu | Guest mode | Administrator mode |
|--------------|------------|--------------------|
| Transmission | Read | Read/Modify |
| Reception | Read | Read/Modify |
| LAN-Fax | Read | Read |

Address Book

| Menu | Guest mode | Administrator mode |
|--------------|------------|--------------------|
| Address List | None | Read/Modify |

Configuration

Device Settings

| Menu | Guest mode | Administrator mode |
|--|------------|--------------------|
| System | Read | Read/Modify |
| Paper | Read | Read/Modify |
| Date/Time | Read | Read/Modify |
| Timer | Read | Read/Modify |
| Logs | None | Read/Modify |
| Download Logs | None | Read/Modify |
| E-mail | Read | Read/Modify |
| Auto E-mail Notification | None | Read/Modify |
| On-demand E-mail Notification | None | Read/Modify |
| File Transfer | None | Read/Modify |
| User Authentication Management | None | Read/Modify |
| Administrator Authentication Management | None | Read/Modify |

| Menu | Guest mode | Administrator mode |
|---------------------------------|------------|--------------------|
| Program/Change Administrator | None | Read/Modify |
| LDAP Server | None | Read/Modify |
| Firmware Update | None | Read/Modify |
| Program/Change Realm | None | Modify |

Printer

| Menu | Guest mode | Administrator mode |
|--------------------------|------------|--------------------|
| Basic Settings | Read | Read/Modify |
| Tray Parameters (PCL) | None | Read/Modify |
| Tray Parameters (PS) | None | Read/Modify |
| Virtual Printer Settings | Read | Read/Modify |
| PDF Temporary Password | Modify | None |
| PDF Group Password | None | Modify |
| PDF Fixed Password | None | Modify |

Fax

| Menu | Guest mode | Administrator mode |
|-------------------------|------------|--------------------|
| General Settings | None | Read/Modify |
| Administrator Tools | None | Read/Modify |
| E-mail Settings | None | Read/Modify |
| IP-Fax Settings | None | Read/Modify |
| IP-Fax Gateway Settings | None | Read/Modify |
| Parameter Settings | None | Read/Modify |

Scanner

| Menu | Guest mode | Administrator mode |
|---------------------------|------------|--------------------|
| Scan Settings | Read | Read/Modify |
| Destination List Settings | Read | Read/Modify |
| Send Settings | Read | Read/Modify |
| Administrator Tools | Read | Read/Modify |

Interface

| Menu | Guest mode | Administrator mode |
|-----------------------|------------|--------------------|
| Interface Settings | Read | Read/Modify |
| Wireless LAN Settings | Read | Read/Modify |

Network

| Menu | Guest mode | Administrator mode |
|------------|------------|--------------------|
| IPv4 | Read | Read/Modify |
| IPv6 | Read | Read/Modify |
| NetWare | Read | Read/Modify |
| AppleTalk | Read | Read/Modify |
| SMB | Read | Read/Modify |
| SNMP | None | Read/Modify |
| SNMPv3 | None | Read/Modify |
| SSDP | None | Read/Modify |
| Bonjour | Read | Read/Modify |
| System Log | Read | Read |

Security

| Menu | Guest mode | Administrator mode |
|------------------|------------|--------------------|
| Network Security | None | Read/Modify |

| Menu | Guest mode | Administrator mode |
|------------------------|------------|--------------------|
| Access Control | None | Read/Modify |
| IPP Authentication | None | Read/Modify |
| SSL/TLS | None | Read/Modify |
| ssh | None | Read/Modify |
| Site Certificate | None | Read/Modify |
| Device Certificate | None | Read/Modify |
| IPsec | None | Read/Modify |
| User Lockout Policy | None | Read/Modify |
| IEEE 802.1X (WPA/WPA2) | None | Read/Modify |
| S/MIME | None | Read/Modify |

RC Gate

| Menu | Guest mode | Administrator mode |
|-------------------------|------------|--------------------|
| Setup RC Gate | None | Read/Modify |
| Update RC Gate Firmware | None | Read |
| RC Gate Proxy Server | None | Read/Modify |

Webpage

| Menu | Guest mode | Administrator mode |
|---------|------------|--------------------|
| Webpage | Read | Read/Modify |

Extended Feature Settings

| Menu | Guest mode | Administrator mode |
|-----------------------|------------|--------------------|
| Startup Setting | None | Read/Modify |
| Extended Feature Info | None | Read |
| Install | None | Read/Modify |

| Menu | Guest mode | Administrator mode |
|---------------------------------------|------------|--------------------|
| Uninstall | None | Read/Modify |
| Change Allocation | None | Read/Modify |
| Administrator Tools | None | Read/Modify |
| Additional Program Startup Setting | None | Read/Modify |
| Install Additional Program | None | Read/Modify |
| Uninstall Additional Program | None | Read/Modify |
| Copy Extended Features | None | Read/Modify |
| Copy Card Save Data | None | Read/Modify |



- Some items are not displayed depending on the security settings.
- Some items are not displayed if certain option is not installed.

Displaying Web Image Monitor Help

When using Help for the first time, clicking the icon marked "?" ([2]) 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.



- By clicking "?" (ⓐ) 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.

- 3. Click [Download].
- 4. Download Help by following the instructions on the screen.
- 5. Store the downloaded compressed file in a given location, and then decompress the file.
 To create a link for the Help button (??), save the downloaded Help files on a Web server.

Linking the URL of the downloaded Help

2. In the [Language] list, select the language.

You can link the URL of the help file on a computer or Web server to the "?" 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 [Set Help URL Target] 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 [OK].



• If you save the Help files on your hard disk, you must access them directly - you cannot link to them using the Help button (??).

4

4

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.



IPv6 cannot be used on this function.

Protocol stack provided with Operating System

Windows 2000

TCP/IP

IPX/SPX

NetWare

Novell Client for Windows 2000/XP/2003

Windows Server 2003/2003 R2

TCP/IP

IPX/SPX

Novell Client for Windows 2000/XP/2003

Windows XP

TCP/IP

IPX/SPX

Novell Client for Windows 2000/XP/2003

• Windows Vista, Windows Server 2008

TCP/IP

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.

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.

- 4. Click SmartDeviceMonitor for Admin.
- 5. Click [Next].

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

- 6. After reading through its contents, click [Next].
- 7. Follow the instructions on the screen.

A message appears when the installation is completed.

8. Click [OK].

A message about restarting the computer may appear. Restart the computer to complete installation.



- Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" located on the CD-ROM root directory.
- If you are required to restart the computer after installing SmartDeviceMonitor for Admin, restart the computer and continue the configuration.

4

Changing the Network Interface Board Configuration

Follow the procedure below to change the network interface board configuration using SmartDeviceMonitor for Admin.

- 1. Start SmartDeviceMonitor for Admin.
- 2. On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. 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 window for entering the login user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts. Click [Web browser], and then click [OK].

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

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

- 6. Configure settings using Web Image Monitor.
- 7. Click [Logout].
- 8. Quit Web Image Monitor.
- 9. Quit SmartDeviceMonitor for Admin.



- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.117 "Using Web Image Monitor"

Locking the Menus on the Machine's Control Panel

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

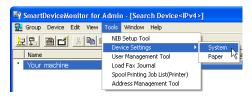
- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. Select a machine.
- 4. On the [Tools] menu, point to [Device Settings], and then click [System].



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

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

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

The [System] page of Web Image Monitor appears.

- 6. On the [Protect Printer Display Panel], select [Level 1] or [Level 2].
- 7. Click [OK].
- 8. Click [Logout].
- 9. Quit Web Image Monitor.
- 10. Quit SmartDeviceMonitor for Admin.



- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

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Changing the Paper Type

Follow the procedure below to change the paper type.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. In the list, select a machine whose configuration you want to change.
- 4. On the [Tools] menu, point to [Device Settings], and then click [Paper].

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

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

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

The [Paper] page appears.

Select a paper type in the [Paper Type] list for each tray. Enter required setting items.

- 6. Click [Logout].
- 7. Quit Web Image Monitor.
- 8. Quit SmartDeviceMonitor for Admin.



- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about setting items, see Help in the General Settings on Configuration page.

Reference

• p.117 "Using Web Image Monitor"

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.

Follow the procedure below to start User Management Tool.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. In the list, select a machine you want to manage.
- 4. On the [Tools] menu, click [User Management Tool].



A Web browser opens and the window for entering the login user mane and password for the Web Image Monitor administrator appears.

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

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

User Management Tool starts.



- For details about login user names and passwords, see Security Reference, which is the administrator's
 manual
- For details about User Management Tool, see SmartDeviceMonitor for Admin Help.

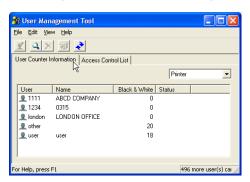
Displaying the Number of Sheets Printed

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

1. Start SmartDeviceMonitor for Admin User Management Tool.

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2. Click the [User Counter Information] tab of User Management Tool.



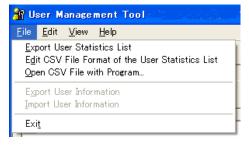
The number of pages printed under each user appears.

3. Click [Exit] 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 as a .csv file.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. On the [File] menu, click [Export User Statistics List].



- 4. Specify the save location and file name, and then click [Save].
- 5. Click [Exit] 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 to 0.

- 1. Start SmartDeviceMonitor for Admin User Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. Select the user whose information you want to reset.

4. On the [Edit] menu, click [Reset User Counters].



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

 A confirmation message appears.
- 6. Click [OK].
 The count for the selected paper type becomes 0 and [Modified] is displayed for [Status].
- 7. On the [Edit] menu, click [Apply Settings].



Changes are applied to information on the User Counter Information tab.

8. Click [Exit] 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 Management Tool.
- 2. Click the [User Counter Information] tab of User Management Tool.
- 3. Click the user whose functions you want to restrict.
- 4. On the [Edit] menu of User Management Tool, click [Restrict Access To Device].



- 5. Select the check box of the functions you want to restrict.
- 6. Click [OK].

A confirmation message appears.

7. Click [Yes].

The settings are applied.

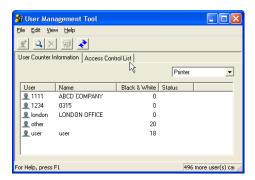
8. Click [Exit] on the [File] menu to quit User Management Tool.

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 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.
 If the check boxes are unavailable, there is no restriction to use that function.
- 6. Click [OK].

The user is added, and [New] is displayed for [Status].

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

The settings are applied.

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



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

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Configuring Energy Save Mode

Follow the procedure below to configure Energy Save mode.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

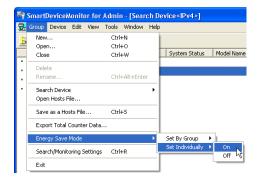
Select the protocol of the machine whose configuration you want to change.

If you are using IPv4 SNMPv3, 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.

Click the [Group] menu, point to [Energy Save Mode], [Set Individually], and then click [On].



To select all the machines in the group, select [Set By Group].

To disable Energy Save mode, click [Off].

5. Quit SmartDeviceMonitor for Admin.



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

Setting a Password

Follow the procedure below to set a password.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

- 3. 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 login user name and password for the Web Image Monitor administrator appears.

NIB Setup Tool starts when the network interface board is default. Follow the instructions on the screen.

- Enter the login user name and password, and then click [Login].
 For details about the user name and password, consult your network administrator.
- 6. Click [Configuration].
- 7. Click [Program/Change Administrator] on the [Device Settings] area, and then change the settings.
- 8. Click [OK].
- 9. Click [Logout].
- 10. Quit Web Image Monitor.
- 11. Quit SmartDeviceMonitor for Admin.



• For details about login user names and passwords, see Security Reference, which is the administrator's manual.

Checking the Machine Status

Follow the procedure below to check machine status.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

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

- Click the [View] menu, and then click [Select Device List Columns].
- From [Device] in the [Select Device List Columns] dialog box, select the items you want to display, and then click [Add].

Selected items will move to [Show].

5. Move all the items you want to display, and then click [OK].

An icon in the list indicates the machine's status.

6. For information about a machine's status, select the machine you want to know about, and then click [Open] in the [Device Settings] menu.

The dialog box of the selected machine appears.

7. Click the application whose status you want to view.

The machine's status is displayed.

8. Quit SmartDeviceMonitor for Admin.



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

Changing Name and Comment

Follow the procedure below to change the name and comment for the machine.

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a machine in the list, and then click [NIB Setup Tool] on the [Tools] menu.

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

NIB Setup Tool starts when the network interface board is default. Follow the instructions on the screen.

4. Enter the login user name and password, and then click [Login].

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

- 5. Click [Configuration].
- 6. Click [System] on the [Device Settings] area, and then change the settings.
- 7. Click [OK].
- 8. Click [Logout].

10. Quit SmartDeviceMonitor for Admin.



- 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.
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.117 "Using Web Image Monitor"

Load Fax Journal

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a machine in the list, and then click [Load Fax Journal] on the [Tools] menu.

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

4. Enter the login user name and password, and then click [Login].

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

[Fax Journal] area appears in the Web Image Monitor.

- 5. Click [Logout].
- 6. Quit Web Image Monitor.
- 7. Quit SmartDeviceMonitor for Admin.



- For details, see Help in Fax Journal area.
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".

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Viewing and Deleting Spool Print Jobs

- 1. Start SmartDeviceMonitor for Admin.
- On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a machine in the list, and then click [Spool Printing Job List(Printer)] on the [Tools] menu.

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

4. Enter the login user name and password, and then click [Login].

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

[Spool Printing Job List] appears in the Web Image Monitor.

- 5. Click [Logout].
- 6. Quit Web Image Monitor.
- 7. Quit SmartDeviceMonitor for Admin.



- To display Spool Printing Job List, [Spool Printing] must be set to [Active] on Web Image Monitor in advance.
- To delete the Spool Printing Job, select the document you want to delete and then click [Delete].
- For details, see Help in the [Spool Printing Job List] area.
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

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Managing Address Information

1. Start SmartDeviceMonitor for Admin.

2. On the [Group] menu, point to [Search Device], and then click [IPv4], [IPX/SPX] or [IPv4 SNMPv3].

A list of machines using the selected protocol appears.

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

If you are using IPv4 SNMPv3, enter the user authentication.

3. Select a machine in the list, and then click [Address Management Tool] on the [Tools] menu.

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

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

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

[Address Management Tool] starts. Make the necessary settings.

- 5. Click [Exit].
- 6. Quit SmartDeviceMonitor for Admin.



- For details, see Address Management Tool Help.
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.

4

Using SmartDeviceMonitor for Client

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

Monitoring Printers

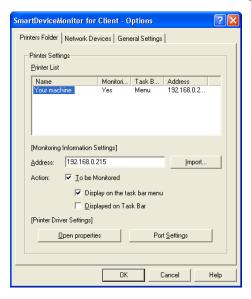
Follow the procedure below to monitor the machine using SmartDeviceMonitor for Client.

 Right-click the SmartDeviceMonitor for Client icon, point to [Properties], and then click [Monitor Device Settings...].



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

2. On the [Printers Folder] tab, select the machine you want to monitor, and then select the [To Be Monitored] check box in the Monitoring Information Settings area.



To display the machine status on the task bar, you must first select the [To be Monitored] check box, and then select the [Displayed on Task Bar] check box.

3. Click [OK].

The dialog box closes and the configured machine is monitored.



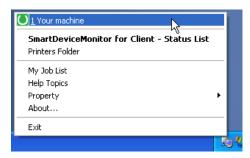


• For details about status icons, see SmartDeviceMonitor for Client Help.

Checking the Machine Status

Follow the procedure below to check machine status using SmartDeviceMonitor for Client.

1. Right-click the SmartDeviceMonitor for Client icon, and then click the machine.



The machine status appears in the dialog box.



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

When Using IPP with SmartDeviceMonitor for Client

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

- The network printer can only receive one print job from SmartDeviceMonitor for Client at a time. While
 the network printer is printing, another user cannot access it until the job is finished. In this case,
 SmartDeviceMonitor for Client tries to access the network printer until the retry interval expires.
- If SmartDeviceMonitor for Client cannot access the network printer and times out, it will stop sending
 the print job. In this case, you should cancel the paused status from the print queue window.
 SmartDeviceMonitor for Client will resume access to the network printer. You can delete the print job
 from the print queue window, but canceling a print job printed by the network printer might cause the
 next job sent from another user to be incorrectly printed.
- If a print job sent from SmartDeviceMonitor for Client is interrupted and the network printer cancels the job because something went wrong, send the print job again.
- Print jobs sent from another computer do not appear in the print queue window, regardless of protocol.
- If various users send print jobs using 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.

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- When setting SSL, a protocol for encrypted communication, under environment which server
 authentication is issued, enter "https://(machine's IP address or host name)/ ". 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].



• For details about SSL settings, consult your network administrator.

Printer Status Notification by E-Mail

Whenever a paper tray becomes empty or paper is jammed, an e-mail alert is issued to the registered addresses to notify the printer status.

For this notification, you can make the e-mail notification settings.

Notification timing and e-mail content can be set.



Depending on your e-mail application, a phishing warning might appear after you receive an e-mail
message. To prevent phishing warnings appearing after you receive e-mail from a specified sender,
you must add the sender to your e-mail application's exclusion list. For details about how to do this,
see your e-mail application's Help.

The e-mail notification functions you can set are as follows:

- Auto e-mail notification
 - Information including the machine status is automatically sent by e-mail. Before you use this function, register the e-mail address to be used.
- On-demand e-mail notification

Information including the machine status is sent by e-mail when a request from the administrator is received

The information that can be notified by auto e-mail notification is as follows:

- Call Service
- Out of Toner
- Toner Almost Empty
- Paper Misfeed
- Cover Open
- · Out of Paper
- Unit Connection Error
- File Storage Memory Full Soon
- Log Error
- Device Access Violation
- Replacement Required: Unit
- Replacement Required Soon: Unit
- 1. Log on to Web Image Monitor in administrator mode.
- 2. In the menu area, click [Configuration].
- 3. Click [E-mail] on the [Device Settings] area.

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4. Make the following settings:

- Items in the Reception column: Make the necessary settings for sending and receiving e-mail.
- Items in the SMTP column: Configure the SMTP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the SMTP server.
- Items in the POP before SMTP column: Configure the POP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the POP server.
- Items in the POP3/IMAP4 column: Configure the POP3 or IMAP4 server. Check your mailing environment, and then specify the necessary items.
- Items in the E-mail Communication Port column: Configure the port to be used for access to the mail server.
- Items in the Fax E-mail Account
- Fax E-Mail Account column: Specify these items if you want to use on-demand e-mail notification.
- Items in the E-mail Notification Account column: Specify these items If you want to use e-mail notification.
- 5. Click [OK].
- 6. Click [Logout].
- 7. Quit Web Image Monitor.



- For details about login user name and password, see Security Reference, which is the administrator's manual
- For details about the settings, see Web Image Monitor Help.
- For details about Web Image Monitor, see "Using Web Image Monitor".

Reference

• p.117 "Using Web Image Monitor"

Setting the Account for E-mail Notification

Before you use Auto E-mail Notification or On-demand E-mail notification, setup an e-mail account to be used for the function. Perform the following configuration task in Web Image Monitor.

- Log on to Web Image Monitor in administrator mode.
- 2. Click [Configuration] in the menu area, and then click [E-mail] on the [Device Settings] area.
- 3. Make the following settings in E-mail Notification Account:
 - E-mail Notification E-mail Address: Enter the address using alphanumeric characters.
 - Receive E-mail Notification: Specify whether to use on-demand e-mail notification.

- E-mail Notification User Name: Enter the administrator's user name as the mail originator name.
- E-mail Notification Password: Enter the password of the mail notification user.
- 4. Click [OK].
- 5. Click [Logout].
- 6. Quit Web Image Monitor.



The user name and e-mail address that is already registered as e-mail destination cannot be specified
as the recipient of e-mail notification.

Mail Authentication

You can configure mail authentication to prevent illegal use of the mail server.

SMTP Authentication

Specify SMTP authentication.

When mail is sent to the SMTP server, authentication is performed using the SMTP AUTH protocol by prompting the mail originator to enter the user name and password. This prevents illegal use of the SMTP server.

- 1. Log on to Web Image Monitor in administrator mode.
- 2. Click [Configuration] in the menu area, and then click [E-mail] on the [Device Settings] area.
- 3. Make the following settings in SMTP column:
 - SMTP Server Name: Enter the IP address or host name of the SMTP server
 - SMTP Port No.: Enter the port number used when sending e-mail to the SMTP server.
 - SMTP Authentication: Enable or disable SMTP authentication.
 - SMTP Auth. E-mail Address: Enter the e-mail address.
 - SMTP Auth. User Name: Enter the SMTP account name.
 - SMTP Auth. Password: To set or change the password for SMTP AUTH.
 - SMTP Auth. Encryption: Select whether to encrypt the password or not.

Encryption-Auto Select: If the authentication method is PLAIN, LOGIN, CRAM-MD5, or DIGEST-MD5.

Encryption-Active: If the authentication method is CRAM-MD5 or DIGEST-MD5.

Encryption-Inactive: If the authentication method is PLAIN or LOGIN.

- 4. Click [OK]
- 5. Click [Logout].
- 6. Quit Web Image Monitor.

POP before SMTP Authentication

Select whether to log on to the POP3 server before sending e-mail.

- 1. Log on to Web Image Monitor in administrator mode.
- 2. Click [Configuration] in the menu area, and then click [E-mail] on the [Device Settings] area.
- 3. Make the following settings in POP before SMTP column:
 - POP before SMTP: Enable or disable POP before SMTP.
 - POP E-mail Address: Enter the e-mail address.
 - POP User Name: Enter the POP account name.
 - POP Password: To set or change the POP password.
 - Timeout setting after POP Auth.: Enter the time available before connecting to the SMTP server after logging on to the POP server.
- 4. Click [OK].
- 5. Click [Logout].
- 6. Quit Web Image Monitor.

Auto E-mail Notification

- 1. Log on to Web Image Monitor in administrator mode.
- Click [Configuration] in the menu area, and then click [Auto E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

- 3. Make the following settings:
 - Notification Message: You can set this according to your needs, for example, the machine's location, service representative contact information.
 - Items in the Groups to Notify column: E-mail notification addresses can be grouped as required.
 - Items in the Select Groups/Items to Notify column: Select groups for each notification type, such as machine status and error.

To make detailed settings for these items, click [Edit] next to [Detailed Settings of Each Item].

- 4. Click [OK].
- 5. Click [Logout].
- 6. Quit Web Image Monitor.



- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

■ Reference

• p.117 "Using Web Image Monitor"

On-demand E-mail Notification

- 1. Log on to Web Image Monitor in administrator mode.
- Click [Configuration] in the menu area, and then click [On-demand E-mail Notification] on the [Device Settings] area.

The dialog box for making notification settings appears.

- 3. Make the following settings:
 - Notification Subject: Enter a text string to be added to the subject line of return e-mails.
 - Notification Message: You can set this according to your needs, for example, the machine's location, service representative contact information.
 - Restriction to Device Status Info.: Select whether or not to allow access to the information such
 as the machine settings and status.
 - Items in the Receivable E-mail Address/Domain Name Settings column: Enter an e-mail address
 or domain name to use for requesting information by e-mail and to receive its return e-mail.
- 4. Click [OK].
- 5. Click [Logout].
- 6. Quit Web Image Monitor.



- For details about Web Image Monitor, see "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

Reference

• p.117 "Using Web Image Monitor"

Format of On-demand E-mail Messages

To use mail notification, you need to send an on-demand e-mail message to this machine.

Using your mail software, enter the following:

| ltem | Description |
|----------------------------------|------------------------|
| Subject (Referred to as Subject) | Enter "requeststatus". |

| ltem | Description |
|----------------------------|--|
| From (Referred to as From) | Specify a valid mail address. The device information will be sent to the address specified here. |

UNote

- A mail message must be within 1 MB in size.
- E-mail may be incomplete if sent immediately after power on.
- The subject is not case sensitive.
- The body of a request e-mail has no meaning. Any text written in the e-mail body is ignored.

☆ Important

- Remote Maintenance should be 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's change also.

Using telnet

Follow the procedure below to use telnet.

- Only one user at a time can log on to perform remote maintenance.
- If you are using Windows Vista, you must enable the telnet server and telnet client beforehand.
- 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.

For user authentication, enter a login user name and password.

For user code authentication, enter a user code in User Name.

- 3. Enter a command.
- 4. Quit telnet.

msh> logout

The configuration message about saving the changes appears.

5. 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.



- 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.

4

8021x

Use the "8021x" commands to display IEEE 802.1x related information.

View settings

msh> 8021x

Configuration

msh> 8021x "parameter"

| Parameter | Value configured |
|--------------------------------|--|
| eap {tls ttls leap peap} {chap | You can specify the EAP authentication type. |
| mschap mschapv2 pap md5 tls} | tls: EAP-TLS (default) |
| lis j | ttls: EAP-TTLS |
| | leap: LEAP |
| | peap: PEAP |
| | chap, mschap, mschapv2, pap, md5, or tls are settings for the phase 2 method, and must be set when using EAP-TTLS or PEAP. |
| | Do not make these settings when using other EAP authentication types. |
| | If you select EAP-TTLS, you can select chap, mschap, mschapv2, pap, or md5. |
| | If you select PEAP, you can select mschapv2 or tls. |
| username "character string" | You can specify the login user name for the Radius server. |
| | Usable characters: ASCII 0x20-0x7e (31 bytes). |
| | The default is blank. |
| username2 "character string" | You can specify the phase 2 username for EAP-TTLS/PEAP phase 2 authentication. |
| | Usable characters: ASCII 0x20-0x7e (31 bytes). |
| | The default is blank. |
| domain name "character string" | You can specify the login domain name for the Radius server. |
| | The characters you can enter are ASCII 0x20-0x7e (31 bytes), but not "@" or "\". |
| | The default is blank. |

| Parameter | Value configured |
|-----------------------------|---|
| password "character string" | You can specify the login for the Radius server. |
| | Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank. |
| srvcert {on off} | You can set the server certificate. The default is "off". |
| imca {on off} | You can enable or disable the certificate when the intermediate certificate authority is present. The default is "off". |
| srvid "character string" | You can set the server ID and subdomain of the certificate server. |
| | Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank. |
| subdomain {on off} | You can specify the subdomain permission. |
| clear {a each command all} | Returns the selected setting to its default value. |
| | If you specify "all", all settings will be restored to their default values. However, IEEE 802.1x Auth. status (enable or disable) for Ethernet and wireless LAN will not be initialized. |

access

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

View settings

msh> access

IPv4 configuration display

msh> access ID range

IPv6 configuration display

msh> access ID range6

IPv6 access mask configuration display

msh> access ID mask6

IPv4 configuration

msh> access ID range "start-address end-address"

Example: to specify accessible IPv4 addresses between 192.168.0.10 and 192.168.0.20:

msh> access 1 range 192.168.0.10 192.168.0.20

IPv6 configuration

msh> access ID range6 "start-address end-address"

Example: to specify accessible IPv6 addresses between 2001:DB8::100 and 2001:DB8::200.

msh> access 1 range6 2001:DB8::100 2001:DB8::200

IPv6 access mask configuration

```
msh> access ID mask6 "base-address prefixlen"

Example: to specify accessible IPv6 addresses to 2001:DB8::/32

msh> access 1 mask6 2001:DB8:: 32
```

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" for IPv4, and "::" for IPv6.



- You can specify each IPv6 entry by either range or mask. For the range parameter, you can select "start-address end-address". For the mask parameter, you can select "base-address prefixlen".
- 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" for IPv4, and "::" for IPv6.
- Valid ranges must be from lower (start address) to higher (end address).
- For IPv4 and IPv6, you can select an ID number between 1 and 5.
- IPv6 can register and select the range and the mask for each access ranges.
- IPv6 mask ranges between 1 128 can be selected.
- Up to five access ranges can be specified. The entry is invalid if the target number is omitted.
- You cannot send print jobs, or access Web Image Monitor and diprint 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.

authfree

Use the "authfree" command to view and configure AuthFree parameters.

View settings

The following command displays the current AuthFree settings:

msh> authfree

 If print job authentication exclusion is not set, authentication exclusion control cannot be displayed.

IPv4 address settings

```
msh> authfree "ID" range_addr1 range_addr2
```

IPv6 address settings

```
msh> authfree "ID" range6_addr1 range6_addr2
```

IPv6 address mask configuration

```
msh> authfree "ID" mask6_addr1 masklen
```

Parallel/USB settings

```
msh> authfree [parallel | usb] [on|off]
```

• To enable authfree, set to on. To disable authfree, set to off. Always specify the interface.

Authentication exclusion control initialization

```
msh> authfree flush
```

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".

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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.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface | Interface configured |
|-----------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |



- If an interface is not selected, the current interface connection settings remain in effect.
- For details about AutoNet, refer to autonet parameters.

bonjour

Use the "bonjour" command to display Bonjour-related settings.

View settings

Bonjour settings are displayed.

msh> bonjour

Bonjour service name setting

You can specify the Bonjour service name.

msh> bonjour cname "computer name"

- The computer name can be entered using up to 63 alphanumeric characters.
- If you do not specify a character string, the current setting is displayed.

Bonjour Installation location information setting

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

msh> bonjour location "location"

- Information about location can be entered using up to 32 alphanumeric characters.
- If you do not specify a character string, current setting is displayed.

Setting order of priority for each protocol

• msh> bonjour diprint [0-99]

- msh> bonjour lpr [0-99]
- msh> bonjour ipp [0-99]

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

IP TTL setting

msh> bonjour ip ttl [1-255]

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

• The default is 255.

Resetting the computer name and location information

You can reset the computer name and location information.

msh> bonjour clear {cname|location}

- cname: Reset the computer name. The default computer name will be displayed when the computer is restarted.
- location: Reset the location information. The previous location information will be deleted.

Interface configuration

msh> bonjour linklocal "interface_name"

- If you do not specify an interface, the Ethernet interface is selected automatically.
- 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.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface | Interface configured |
|-----------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

Setting IPP-SSL printing

msh> bonjour ippport {ipp|ssl}

- If IPP-SSL Printing is set to ssl, the IPP port number will appear as 443, and IPP-SSL printing can be performed with higher security.
- If IPP-SSL Printing is set to ipp, the IPP port number will appear as 631. Port 631 is the port for normal IPP printing.

4

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}.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

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

• p.363 "Using DHCP"

dhcp6

Use the "dhcp6" command to display or configure DHCPv6 settings.

View settings

The following command displays the current DHCPv6 settings.

msh> dhcp6

DHCPv6-lite configuration and display

msh> dhcp6 "interface_name" lite {on|off}

Viewing and specifying DNS server address selection (obtained from the dhcpv6 server/user specified value)

msh> dhcp6 dnsaddr {dhcp|static}

DUID(DHCP unique ID) deletion and display

msh> dhcp6 duid clear

Viewing and specifying the time required to re-obtain the parameter obtained from dhcpv6

msh> dhcp6 option lifetime [0-65535]

- It can be entered between 0 and 65535 minutes.
- The default is 60 minutes.
- If you specify "0", you cannot re-obtain the value.

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

conn multi

apl async

- 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 [30-5535]

- You can specify the timeout interval to use when the printer is expecting data from the network.
- The default is 300 seconds.
- This command functions in conjunction with the "lpr" command.

Specifying the number of concurrent connections

```
msh> diprint conn {multi|single}
```

- The above command specifies the number of concurrent diprint connections. Specify "multi" for multiple connections or "single" for a single connection.
- The default is "multi".

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

IPv4 DNS server configuration

The following command enables or disables the IPv4 DNS server address:

4

msh> dns "ID" 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 IPv4 DNS Server address.
- You can select an ID number between 1 and 3. You can select up to three ID numbers.
- You cannot use "255.255.255.255" as the DNS server address.

IPv6 DNS server configuration

The following command enables or disables the IPv4 DNS server address:

msh> dns "ID" server6 "server address"

- You can register IPv6 DNS Server address.
- The selectable ID number is between 1 and 3. You can select up to 3 ID.

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".
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 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 [1-255]

- 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.

resolv.conf display

msh> dns resolv

Specifying the protocol when asking names during dual stacking

msh> dns resolv protocol {ipv4|ipv6}

Appears during dual stacking only.

domainname

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

You can configure the Ethernet interface or IEEE 802.11 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 802.11 interface will have the same domain name.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface | Interface set |
|-----------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

Deleting the Domain Name

msh> domainname "interface_name" clear name

etherauth

Use the "etherauth" command to display or modify the authentication related parameters for Ethernet.

View settings

msh> etherauth

802.1x Configuration

msh> etherauth 8021x {on|off}

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

etherconfig

Use the "etherconfig" command to view and configure the Ethernet parameters.

View settings

msh> etherconfig

Specify Ethernet speed

msh> etherconfig speed {auto|10f|10h|100f|100h}

- auto = Auto Select
- 10f = 10 Mbps Full Duplex
- 10h = 10 Mbps Half Duplex
- 100f = 100 Mbps Full Duplex
- 100h = 100 Mbps Half Duplex
- The default is "auto".

help

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

4

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

IPv4 configuration

msh> hostname "interface_name" "printer_name"

- Enter the printer name using up to 63 alphanumeric characters.
- You cannot use a printer name beginning "RNP" (in either upper or lower case).
- The Ethernet interface and IEEE 802.11 interface will have the same printer name.
- wlan can be specified only when the IEEE 802.11 interface is installed.
- If you do not specify an interface, the Ethernet interface is selected automatically.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

Initializing the printer name for each interface

msh>hostname "interface_name" clear name

ifconfig

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

View settings

msh> ifconfig

IPv4 configuration

msh> ifconfig "interface_name" "parameter" "address"

• If you did not enter an interface name, it is automatically set to the Ethernet interface.

• wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet Interface |
| wlan | IEEE 802.11 Interface |

The following explains how to configure an IPv4 address 192.168.15.16 on Ethernet interface.

msh> ifconfig ether 192.168.15.16

IPv6 configuration

msh> ifconfig ether inet6 "interface_name" "printer_name"

The following explains how to configure a IPv6 address to 2001:DB8::100 with prefix length 64 on the Ethernet interface.

msh> ifconfig ether inet6 2001:DB8::100 64

Netmask configuration

msh> ifconfig "interface_name" netmask "address"

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

msh> ifconfig ether netmask 255.255.255.0

Broadcast address configuration

msh> ifconfig "interface_name" broadcast "address"

Changing the interface

msh> ifconfig "interface" up

 When using the optional IEEE 802.11 interface unit, you can specify either Ethernet or IEEE 802.11 interface.



- 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 802.11 interface.
- TCP/IP configuration is the same for both Ethernet and IEEE 802.11 interface. If interfaces are changed, the new interface inherits the configuration.
- Use "Ox" 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.

4

Printer information display

msh> info



• p.196 "Getting Printer Information over the Network"

ipp

Use the "ipp" command to view and configure IPP settings.

Viewing settings

The following command displays the current IPP settings:

msh> ipp

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".
- If user authorization is specified, register a user name. You can register up to 10 users.

IPP user name configuration

Configure IPP users according to the following messages:

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 :*****

After configuring the settings, the following message appears:

User configuration changed.

ipsec

Use the "ipsec" command to view and configure IPsec settings.

The following command displays the current IPsec settings:

msh> ipsec



• For details about displayed contents, see Security Reference.

ipv6

Use the "ipv6" command to display and configure IPv6 settings.

View settings

msh> ipv6

IPv6 stateless address

msh> ipv6 stateless {on|off}

If "on" is selected, IPv6 requests information required for maintaining stateful connection to the router for as long as the printer power is turned on. This setting allows information from the router to be obtained constantly, and periodically refreshes the effective period of the stateless address.

logout

Use the "logout" command to save the changes and quit telnet.

Quit telnet

msh> logout

A confirmation message appears.

{yes|no|return}

Enter [yes], [no] or [return] by typing the word, and then press the [Enter] key.

To save the changes and quit telnet, enter [yes].

To discard the changes and quit telnet, enter [no].

To continue making changes, enter [return]

lpr

Use the "lpr" command to view and configure LPR settings.

View settings

msh> 1pr

/

Checking host name when deleting the job

msh> lpr chkhost {on|off}

• The default is "on".

If "on" is selected, you can delete print jobs only from the IP address of the host that sent the print job. If LPR is disabled, you can also delete print jobs sent from IP addresses other than that of the host.

Printer Error Detection Function

lpr prnerrchk {on|off}

• The default is "off".

If you set this to "on", the printer stops receiving data and will wait until the error is resolved before continuing processing a job.

netware

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

NetWare Printer Server Names

msh> netware pnamecharacter string

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

NetWare File Server Names

msh> netware fname character string

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

Encap type

msh> netware encap {802.3|802.2|snap|ethernet2|auto}

Remote Printer Number

msh> netware rnum [0-254]

• The default is 0.

Timeout

msh> netware timeout [3-255]

• The default is 15.

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 "character string"

SAP interval

msh> netware "sap_interval[0-3600]"

It can be entered between 0 and 3600 seconds.

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 tree name"

File transfer protocol

msh> netware trans {ipv4pri|ipxpri|ipv4|ipx}

• If you do not specify the protocol, the current setting is displayed.

| Protocol | Set Protocol |
|----------|----------------|
| ipv4pri | IPv4+IPX(IPv4) |
| ipxpri | IPv4+IPX(IPX) |
| ipv4 | IPv4 |
| ipx | IPX |

pathmtu

Use the "pathmtu" command to display and configure the PathMTU Discovery service function.

View settings

msh> pathmtu

Configuration

msh> pathmtu {on|off}

- The default is "on".
- If the MTU size of the sent data is larger than the router's MTU, the router will declare it
 impassable, and communication will fail. If this happens, selecting the "pathmtu" to "on"
 optimizes the MTU size and prevents data output failure.

 Depending on the environment, information might not be obtained from the router, and communication will fail. If this happens, select the "pathmtu" to "off".

prnlog

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

Print logs display

msh> prnlog

• Display 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.

Reference

• p.204 "Understanding the Displayed Information"

rhpp

Use the "rhpp" command to view and configure RHPP settings.

View settings

msh> rhpp

Changing rhpp port number

msh> rhpp [1024-65535]

• The default is 59100.

Setting timeout

msh> rhpp timeout [30-65535]

• The default is 300 seconds.



• "RHPP" is an abbreviation of "Reliable Host Printing Protocol", which is a manufacturer-original printing protocol.

route

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

Specified route information display

msh> route get "destination"

• Specify the IPv4 address to destination.

"0.0.0.0" cannot be specified as destination address.

Enabling/disabling specified IPv4 destination

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

• If you do not specify {host | net}, the host setting is automatically selected.

Adding IPv4 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 IPv4 address to destination and gateway.
- If you do not specify {host | net}, the host setting is selected automatically.
- You cannot specify "0.0.0.0" as the destination address.

Setting the Default IPv4 Gateway

msh> route add default "gateway"

Deleting specified IPv4 destination from Routing Table

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

- If you do not specify {host | net}, the host setting is automatically selected.
- IPv4 address of destination can be specified.

Setting IPv6 Default Gateway

msh> route add6 default gateway

Adding a specified IPv6 destination to Routing Table

msh> route add6 "destination" "prefixlen[1-128]" "gateway"

- Specify the IPv6 address to destination and gateway.
- If the prefix of the address is between 1 and 127, the network is selected. If the prefix of the address is 128, the host is selected.
- You cannot register a record that has the same destination and prefix as a registered record.
- You cannot register a record that uses "0000:0000:0000:0000:0000:0000:0000" as its destination.

Deleting a specified IPv6 destination from Routing Table

msh> route delete6 "destination" "prefixlen"

• Specify the IPv6 address to destination and gateway.

Display information about a specified IPv6 route information

msh> route get6 "destination"

• Specify the IPv6 address to destination and gateway.

4

Enabling/disabling a specified IPv6 destination

```
msh> route active6 "destination" "prefixlen[1-128]" {on|off}
```

Route initialization

msh> route flush



- The maximum number of IPv4 routing tables is 16.
- The maximum number of IPv6 routing tables is 2.
- Set a gateway address when communicating with devices on an external network.
- The same gateway address is shared by all interfaces.
- "Prefixlen" is a number between 1 and 128.

set

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

View settings

The following command displays protocol information (active/inactive).

```
msh> set ipv4
msh> set ipv6
msh> set ipsec
msh> set appletalk
msh> set netware
msh> set smb
msh> set protocol
```

• When protocol is specified, information about TCP/IP, AppleTalk, NetWare and SMB appears.

```
msh> set 1pr
msh> set 1pr6
msh> set ftp
msh> set ftp6
msh> set rsh
msh> set rsh6
msh> set diprint
msh> set diprint6
msh> set web
```

```
msh> set snmp
msh> set ssl
msh> set ss16
msh> set nrs
msh> set rfu
msh> set rfu6
msh> set ipp
msh> set ipp6
msh> set http
msh> set http6
msh> set bonjour
msh> set bonjour6
msh> set nbt
msh> set ssdp
msh> set ssh
msh> set sftp
msh> set sftp6
msh> set wsdev
msh> set wsdev6
msh> set wsprn
msh> set wsscn
msh> set rhpp
msh> set rhpp6
```

Configuration

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

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

```
msh> set ipv4 {up|down}
```

- If you disable IPv4, 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 IPv4.
- Disabling IPv4 also disables lpr, ftp, rsh, diprint, web, snmp, ssl, ipp, http, bonjour, wsdev, and sftp.

```
msh> set ipv6 {up|down}
```

• If you disable IPv6, 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 IPv6.

 Disabling IPv6 also disables lpr6, ftp6, rsh6, diprint6, ssl6, ipp6, http6, bonjour6, wsdev6, and sftp6.

```
msh> set ipsec {up|down}
msh> set appletalk {up|down}
msh> set netware {up|down}
msh> set smb {up|down}
msh> set lpr {up|down}
msh> set lpr6 {up|down}
msh> set ftp {up|down}
msh> set ftp6 {up|down}
msh> set rsh {up|down}
msh> set rsh6 {up|down}
msh> set diprint {up|down}
msh> set diprint6 {up|down}
msh> set web {up|down}
msh> set snmp {up|down}
msh> set ssl {up|down}
msh> set ss16 {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 rfu6 {up|down}
msh> set ipp {up|down}
msh> set ipp6 {up|down}
msh> set http {up|down}
msh> set http6 {up|down}
msh> set bonjour {up|down}
msh> set bonjour6 {up|down}
msh> set ssh {up|down}
msh> set sftp6 {up|down}
msh> set sftp6 {up|down}
msh> set sftp6 {up|down}
msh> set sftp6 {up|down}
```

```
msh> set wsdev {up|down}
msh> set wsdev6 {up|down}
```

If "wsdev" and "wsdev6" are enabled simultaneously, both appear as "up" on the protocol
information display, but both use IPv4 for WSD (Device), WSD (Printer) and WSD (Scanner).

```
msh> set wsprn {up|down}
msh> set wsscn {up|down}
msh> set rhpp {up|down}
msh> set rhpp6 {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

• p.204 "Understanding the Displayed Information"

slp

Use the "slp" command to view and configure SLP settings.

```
msh> slp ttl "ttl_val[1-255]"
```

- You can search the NetWare server using SLP in the PureIP environment of NetWare 5/5.1. 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 "computer name"
```

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

Working group name settings

msh> smb group "work group name"

• Set workgroup name using up to 15 characters.

Comment settings

msh> smb comment "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

View protocol

msh> smb protocol

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

IPv4 address:0.0.0.0

IPv6 address:::

IPX address:00000000:000000000000

Access type:read-only

Effective Protocol: IPv4/IPv6/IPX

• Default access settings 2 is as follows:

Community name:admin

IPv4 address:0.0.0.0

IPv6 address:::

IPX address:00000000:000000000000

Access type:read-write

Effective Protocol: IPv4/IPv6/IPX

- 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 trapmessages |

Protocol configuration

Use the following command to set protocols "active" or "inactive": If you set a protocol "inactive", all access settings for that protocol are disabled.

msh> snmp {ipv4|ipv6|ipx} {on|off}

- Specify "ipv4" for IPv4, "ipv6" for IPv6, or "ipx" for IPX/SPX.
- {on} means "active" and {off} means "inactive".
- All protocols cannot be turned off concurrently.

Configuration of protocol for each registration number

msh> snmp "number" active {ipv4|ipv6|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" {ipv4|ipv6|ipx} "address"
```

- You can configure a host address according to the protocol used.
- The network interface board accepts requests only from hosts that have IPv4, IPv6, and IPX
 addresses with access types of "read-only" or "read-write". 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 IPv4 or IPv6, enter "ipv4" or "ipv6" followed by a space, and then the IPv4 or IPv6
 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 the SNMP v1v2 setting.

SNMP v3 TRAP configuration display

```
msh> snmp v3trap
msh> snmp v3trap [1-5]
```

• If a number from 1 to 5 is entered, settings are displayed for that number only.

Configuring a sending address for SNMP v3 TRAP

```
msh> snmp v3trap [1-5] {ipv4|ipv6|ipx} "address"
```

Configuring a sending protocol for SNMP v3 TRAP

```
msh> snmp v3trap [1-5] active {ipv4|ipv6|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.
- If you select "on", plain-text communication becomes impossible only encrypted communication is possible.



"Encrypted communication" means an encrypted password is set on the machine.

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 IPv4 server address configuration

You can specify the IPv4 address of the NTP server.

msh> sntp server "IPv4_address"

NTP hostname configuration

You can specify the hostname of the NTP server.

msh> sntp server "hostname"

Deleting NTP server configuration

msh> sntp server clear

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 from 0, or between 15 and 10,080 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. The values are between -12:00 and +13:00.



• You can only select either the address or host name for the ntp server.

spoolsw

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

You can only specify diprint, trap, lpr, ipp, ftp, sftp, wsd (printer), and smb (TCP/IP) 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}

• 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 diprint {on|off}

ssdp

Use the "ssdp" command to view and configure SSDP settings.

View settings

msh> ssdp

Setting effective time

msh> ssdp profile [1801-86400]

• The default is 10800 seconds.

Advertise packet TTL settings

msh> ssdp ttl [1-255]

• The default is 4.

ssh

Use the "ssh" command to view and configure SSH settings.

View settings

msh> ssh

Data compression communication settings

msh> ssh compression {on|off}

• The default is "on".

SSH/SFTP communication port setting

msh> ssh port [22, 1024-65535]

• The default is 22.

SSH/SFTP communication timeout setting

msh> ssh timeout [0-65535]

• The default is 300.

SSH/SFTP communication login timeout setting

msh> ssh logintimeout [0-65535]

• The default is 300.

Setting an open key for SSH/SFTP

msh> ssh genkey {512|768|1024} "character string"

- Create an open key for SSH/SFTP communication.
- Usable characters are ASCII 0x20-0x7e (32 bytes) other than "0".
- The default key length is 1024, and the character string is blank.
- If you do not specify this parameter, an open key with the default value will be created.

Deleting open key for ssh/sftp communication

msh> ssh delkey



- If you do not specify a character string, current setting is displayed.
- ssh can be used only with sftp.

status

Use the "status" command to display the printer status.

View messages

msh> status



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syslog

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

View message

msh> syslog

■ Reference

• p.216 "Message List"

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.

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

 Specify "1" or "2" for ID as the number corresponding to the URL. Up to two URLs can be registered and specified.

Resetting URLs registered as link destinations

msh> web "ID" clear url

• Specify "1" or "2" for ID as the corresponding number to the URL.

Link name configuration

You can enter the name for URL that appears on Web Image Monitor.

msh> web "ID" name "Name you want to display"

• Specify "1" or "2" for ID the corresponding number to the link name.

Resetting URL names registered as link destinations

msh> web "ID" clear name

• Specify "1" or "2" for ID as the number corresponding to the link name.

Help URL Configuration

You can set URLs linked by clicking "?" on Web Image Monitor.

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

Resetting Help URL

msh> web clear help

4

wiconfig

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

View settings

msh> wiconfig

View IEEE 802.11 settings

msh> wiconfig cardinfo

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

Configuration

msh> wiconfig "parameter"

| Parameter | Value configured |
|---------------------------------|---|
| mode {ap 802.11adhoc} | You can set the infrastructure mode (ap) or the 802.11 Ad hoc mode (802.11 adhoc). The default is the infrastructure mode. |
| ssid "ID value" | You can specify an SSID in infrastructure mode. The characters you can enter in the SSID string are ASCII 0x20-0x7e (32 bytes). If you do not specify a character string, the machine will connect to the nearest access point. The default SSID is blank. |
| channel frequency "channel no." | In 802.11 ad hoc mode, you can select a channel between 1 and 14, or 36, 40, 44, or 48. |
| | Be sure to set the same channel for all ports that will transmit and receive data. |
| | The default is "11". |

| Parameter | Value configured |
|--|---|
| key "key value" val [1 2 3 4] | You can specify the WEP key when entering in hexadecimal. |
| | With a 64-bit WEP, you can use 10 digit hexadecimals. With a 128-bit WEP, you can use 26 digit hexadecimals. |
| | Up to four WEP keys can be registered. Specify the number to be registered with "val". |
| | When a WEP is specified by key, the WEP specified by key phrase is overwritten. |
| | To use this function, set the same key number and WEP key for all ports that transmit data to each other. Put "Ox" on the front of WEP key. |
| | You can omit the numbers with "val". The key number is set to 1 when making these omissions. The default is blank. |
| 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 5 digit hexadecimals. With a 128-bit WEP, you can use 13 digit hexadecimals. |
| | Up to four WEP keys can be registered. Specify the number to be registered with "val". |
| | When a WEP is specified by key phrase, the WEP specified by key is overwritten. |
| | To use this function, 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. The default is blank. |
| encval [1 2 3 4] | You can specify which of the four WEP keys is used for packet encoding. "1" is set if a number is not specified. |
| wepauth {open shared} | You can set an authorization mode when using WEP. The specified value and authorized mode are as follows: |
| | open: open system authorized (default) |
| | shared: shared key authorized rate |
| security {none wep wpa} | You can specify the security mode. |
| | none: No encryption (default) |
| | wep: WEP encryption |
| | wpa: WPA encryption |

| Parameter | Value configured |
|---|---|
| wpaenc {tkip ccmp} | You can specify WPA encryption key when using WPA encryption. tkip: TKIP ccmp: CCMP (AES) (default) |
| wpaauth {wpapsk wpa wpa2psk wpa2} | You can specify the WPA authentication mode when using WPA encryption. wpapsk: WPA-PSK authentication (default) wpa: WPA authentication wpa2psk: WPA2-PSK authentication wpa2: WPA2 authentication |
| psk "character string" | You can specify the Pre-Shared key. Usable characters: ASCII 0x20-0x7e (8 to 63 bytes). The default is blank. |
| eap {tls ttls leap peap} {chap mschap mschapv2 pap md5 tls} | You can specify the EAP authentication type. tls: EAP-TLS (default) ttls: EAP-TTLS leap: LEAP peap: PEAP chap, mschap, mschapv2, pap, md5, or tls are settings for the phase 2 method, and must be set when using EAP-TTLS or PEAP. Do not make these settings when using other EAP authentication types. If you select EAP-TTLS, you can select chap, mschap, mschapv2, pap, or md5. If you select PEAP, you can select mschapv2 or tls. |
| username "character string" | You can specify the login user name for the Radius server. Usable characters: ASCII 0x20-0x7e (31 bytes). The default is blank. |

| Parameter | Value configured |
|------------------------------|--|
| username2 "character string" | You can specify the phase 2 username for EAP-TTLS/PEAP phase 2 authentication. |
| | Usable characters: ASCII 0x20-0x7e (31 bytes). The default is blank. |
| domain "character string" | You can specify the login domain name for the Radius server. The characters you can enter are ASCII 0x20-0x7e (31 bytes), but not "@" or "\". |
| | The default is blank. |
| password "character string" | You can specify the login for the Radius server. |
| | Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank. |
| srvcert {on off} | You can set the server certificate. The default is "off". |
| imca {on off} | You can enable or disable the certificate when the intermediate certificate authority is present. The default is "off". |
| srvid "character string" | You can set the server ID and subdomain of the certificate server. |
| | Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank. |
| Connectinfo | Obtains connection information. |
| clear {a each command all} | Returns the selected setting to its default value. |
| | If you specify "all", all settings will be restored to their default values. |
| miccheck {on off} | You can enable or disable the MIC check function. |
| | The default setting is "On" (enabled). |
| | If you specify "Off", you cannot perform MIC checks. We recommend you specify "On" for the MIC check function when using this machine. |

wins

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

View settings

msh> wins

If the IPv4 address obtained from DHCP differs from the WINS IPv4 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.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

Address configuration

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

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.
- wlan can be specified only when the IEEE 802.11 interface is installed.

| Interface name | Interface configured |
|----------------|-----------------------|
| ether | Ethernet interface |
| wlan | IEEE 802.11 interface |

wsmfp

Use the "wsmfp" command to view and configure WSD (Device), WSD (Printer) and WSD (Scanner) settings.

View settings

msh> wsmfp

Comment settings

msh> wsmfp comments "comment"

• If you do not specify a comment, current setting is displayed.

Location configuration

msh> wsmfp location "location"

• If you do not specify a comment, current setting is displayed.

Presentation URL configuration

msh> wsmfp url "URL"

• Enter the URL string in the "URL".

WSD (Device) TCP port configuration

msh> wsmfp devport "port_number"

• The Default is 53000.

WSD (Printer) TCP port configuration

msh> wsmfp prnport "port_number"

• The Default is 53001.

WSD (Printer) Timeout configuration

msh> wsmfp prntimeout [30-65535]

• The default is 900 seconds.

WSD (Scanner) TCP port configuration

msh> wsmfp scnport "port_number"

• The Default is 53002.

Comment initialization

msh> wsmfp clear comments

Location initialization

msh> wsmfp clear location

Presentation URL initialization

msh> wsmfp clear url

SNMP

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

The SNMP agent operating on UDP and IPX is incorporated into the built-in Ethernet board and optional IEEE 802.11 interface unit of this machine.

This machine also supports SNMPv3, which increases user authentication, data encryption, and access control security.

To encrypt communication by SNMPv3, you must specify the machine's encrypted password.



 If you changed the machine'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 2000:

Click the [Start] button.

Point to [SmartDeviceMonitor for Admin] on the [Programs] menu.

Click [SNMP Setup Tool].

Windows XP/Vista, Windows Server 2003/2003 R2/2008

Click the [Start] button.

Point to [SmartDeviceMonitor for Admin] on the [All Programs] menu.

Click [SNMP Setup Tool].

Getting Printer Information over the Network

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

Current Printer Status

This section explains how you can check the machine's status and the items displayed. Depending on the options installed on the machine, some items might not be displayed.

- UNIX: Use the "lpq" command and "rsh", "rcp", "ftp", and "sftp" parameters.
- mshell: Use the "status" command.

| Messages | Description |
|---------------------------------|---|
| Access Restricted | The job was canceled because user have no authority. |
| Access Restricted (Classi-Code) | The job was canceled because no classification code is specified. |
| 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. |
| Cannot Eject Original Through | The original cannot be ejected. |
| Cannot multi-install: SD Card | The SD card has been configured using another device. |
| 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. |
| Cooling Down Fusing Unit | The fusing unit is cooling down. |
| Cover Open: ADF | The document feeder is open. |
| Cover Open: Duplex Unit | The cover of the duplex unit is open. |

| Messages | Description |
|---------------------------------|--|
| Cover Open: Front Cover | The front cover is open. |
| Cover Open: Lower Right Cover | The lower right cover is open. |
| Cover Open: Right Cover | The right cover is open. |
| Current Job Suspended | The current job is suspended. |
| Data Size Error | The data size error occurred. |
| Empty: Black Toner | The black 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: Media Link Board | An error has occurred on the File Format Converter. |
| 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: Rem. Certificate Renewal | An error has occurred in the remote server renewal. |
| Error: USB Board | An error has occurred in the USB interface board. |
| Error: USB Interface | An error has occurred in the USB interface. |
| Error: Wireless Board | An error has occurred in the wireless interface board or IEEE 802.11 interface unit. |

| Messages | Description |
|-------------------------------|--|
| Error: Wireless Card | Wireless card is not inserted during start up, or the IEEE 802.11 interface unit or the wireless card is taken out after start up. |
| Full: Log Data Capacity | The log data capacity is full. |
| Full: Waste Toner | The waste toner 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 transmission. |
| 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: Input Tray | The input tray is being used by other functions. |
| Independent-supplier Toner | Toner that is not recommended is set. |
| Jobs Suspended | All jobs are suspended. |
| 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. |
| Malfunction: Bypass Tray | There is a problem with the bypass tray. |
| Malfunction: Ext. Charge Unit | There is a problem with the external charge unit. |
| Malfunction: Output Tray | There is a problem with the output tray. |
| 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. |
| Memory Low: Copy | Memory shortage has occurred while the copy was operating. |

| Messages | Description |
|----------------------------------|---|
| Mismatch: Paper Size | Indicated paper tray does not contain paper of selected size. |
| Nearly Full: Log Data Capacity | The log is nearing data capacity |
| Nearly Full: Waste Toner Bottle2 | Waste toner bottle 2 is nearly full. |
| 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. |
| Not Detected: Black Toner | Black toner is not correctly set. |
| Not Detected: Duplex Unit | The duplex feed unit 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: Transfer Unit | The transfer unit 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: WasteToner Bottle | Waste toner bottle is not correctly set. |
| Not Detected: Int. Transfer Unit | Int.transfer unit is not correctly set. |
| Not Reached, Data Deleted | Unreached job is deleted. |
| Not Reached, Data Stored | Unreached documents are saved. |
| Offline | Machine is offline. |
| Operating Thermo-range Error | The machine is operating outside the permissible temperature range. |
| Original on Exposure Glass | The original remains on the exposure glass. |
| Panel Off Mode | The machine is in Panel-Off mode. |

| Messages | Description |
|---------------------------------|---|
| 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 Misfeed: ADF | The paper has jammed in Document Feeder. |
| Paper Misfeed: Duplex Unit | The paper has jammed in Duplex Unit. |
| Prepaid Card not inserted | The prepaid card is not inserted, or has insufficient credit. |
| Print Complete | The print was completed. |
| Printing | Printing is in progress. |
| Processing | Data is being processed. |
| Proxy Address/Port Incorrect | The proxy address and port setting is incorrect. |
| Proxy User / Password Incorrect | The proxy user name and password setting is incorrect. |
| RC Gate Connection Error | Failed connect with RC Gate (Basil). |
| Readjusting | The machine is readjusting itself. |
| Ready | The machine is ready to print. |
| Renewing Remote Certificate | The remote certificate is being renewed. |
| Replace Black PCU | It is time to replace the black photoconductor unit. |
| Replace Charger Kit | It is time to replace the charger kit. |
| Replace Cleaning Web | It is time to replace the Cleaning Web. |
| Replace Developer | It is time to replace the development unit. |
| Replace Fusing Unit | It is time to replace the fusing unit. |
| Replace Maintenance Kit | It is time to replace the maintenance kit. |
| Replace Transfer Cleaning Unit | It is time to replace the transfer cleaning unit. |
| Replace Transfer Roller | It is time to replace the transfer roller. |
| Reset IPDS fonts | An IPDS font error occurred. |

| Messages | Description |
|-------------------------------|---|
| Retarding | Printing has stopped momentarily to allow printed sheets to dry. |
| SD Card Authentication failed | SD card authentication failed. |
| SD Card not inserted | The machine is waiting for SD card. |
| 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 because 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. |
| Waiting for Job Suspension | The machine is waiting for Job Suspension. |
| Warming Up | The machine is warming up. |



- For details about UNIX commands, see UNIX Supplement.
- Check the error contents that may be printed in the configuration page.

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", "ftp", and "sftp" parameters.
- mshell: Use the "info" command.

Input Tray

| ltem | Description |
|-----------|--|
| No. | ID number of the paper tray |
| Name | Name of the paper tray |
| Page Size | Size of paper loaded in the paper tray |
| Status | Current status of the paper tray Normal: Normal NolnputTray: 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 |

Printer Language

| ltem | Description |
|------|---|
| No. | ID number of the printer language used by the printer |
| Name | Name of the printer language used in the printer |

| ltem | Description |
|---------|---------------------------------|
| Version | Version of the printer language |



• For details about UNIX commands and parameters, see UNIX Supplement.

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", "ftp", and "sftp" parameters.
- mshell: Use the "info" command.

| Item | Description |
|------------|---|
| Rank | Print job status. |
| | Active |
| | Printing or preparing for printing. |
| | • 1st, 2nd, 3rd, 4th |
| | Waiting to be transferred to the printer. |
| Owner | Print request user name. |
| Job | Print request number. |
| Files | The name of the document. |
| Total Size | The size of the data (spooled). |
| | The default is 0 bytes. |



• For details about UNIX commands and parameters, see UNIX Supplement.

Print Log Information

This is a record of the most recent jobs printed.

Use the following command to display print log information:

- UNIX: Use the "prnlog" command and "rsh", "rcp", "ftp", and "sftp" parameters.
- telnet: Use the "prnlog" command.

| ltem | 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 (when designating Job ID on telnet) | Printer driver-configured User ID. |
| | Appears when the print request ID is specified. |
| JobName (when designating Job ID on telnet) | Name of the document for printing |
| | Appears when the print request ID is specified. |



• For details about UNIX commands and parameters, see UNIX Supplement.

Configuring the Network Interface Board

Use the following command to display network interface board settings:

• telnet: Use the "show" command.

| | ltem | Description | |
|----|--------------------|--------------------|--|
| Со | mmon | | |
| | Mode | | |
| | Protocol Up/Down | Protocol Settings | |
| | AppleTalk | | |
| | IPv4 | | |
| | IPv6 | | |
| | IPsec | | |
| | NetWare | | |
| | SMB | | |
| | Device Up/Down | Device Settings | |
| | Parallel | | |
| | USB | | |
| | Ethernet interface | | |
| | Syslog priority | | |
| | NVRAM version | | |
| | Device name | | |
| | Comment | | |
| | Location | | |
| | Contact | | |
| | Soft switch | | |
| Ар | pleTalk | AppleTalk settings | |
| | Mode | | |
| | Net | | |
| | Object | | |
| | Туре | | |
| | | | |

| | ltem | Description |
|-----|---------------|-----------------|
| | Zone | |
| TCI | P/IP | TCP/IP settings |
| | Mode (IPv4) | |
| | Mode (IPv6) | |
| | ftp | |
| | lpr | |
| | rsh | |
| | telnet | |
| | diprint | |
| | web | |
| | http | |
| | ftpc | |
| | snmp | |
| | ірр | |
| | autonet | |
| | Bonjour | |
| | ssl | |
| | nrs | |
| | rfu | |
| | nbt | |
| | ssdp | |
| | ssh | |
| | sftp | |
| | WSD (Device) | |
| | WSD (Printer) | |

| WSD (Scanner) rhpp IPv4 DHCP Address Netmask Broadcast Gateway IPv6 | | |
|---|------------|--|
| IPv4 DHCP Address Netmask Broadcast Gateway | | |
| DHCP Address Netmask Broadcast Gateway | | |
| Address Netmask Broadcast Gateway | | |
| Netmask Broadcast Gateway | | |
| Broadcast Gateway | | |
| Gateway | | |
| | | |
| IPv6 | | |
| | | |
| Stateless | | |
| Manual | | |
| Gateway | | |
| DHCPv6-lite | | |
| DUID | | |
| DHCPv6 option lifetime | | |
| IPsec | | |
| Manual Mode | | |
| Excluded Protocol | | |
| https | | |
| dns | | |
| dhcp | | |
| wins | | |
| EncapType | | |
| Host name | | |
| DNS Domain | DNS Domain | |

| | ltem | Description |
|---------|-------------------------|-------------------------------|
| Ac | ccess Control | Access Control settings |
| | IPv4 | |
| | Access Entry [X] | X can be set between 1 and 5. |
| | IPv6 | |
| | Access Entry [X] | X can be set between 1 and 5. |
| SN | NTP Server | Time settings |
| Tir | ne Zone | |
| SN | NTP Server polling time | |
| SY | 'SLOG server | Websys settings |
| Но | ome page URL1 | |
| Но | ome page link name 1 | |
| Но | ome page URL2 | |
| Но | ome page link name2 | |
| Не | elp page URL | |
| RH | HPP Port | |
| RH | HPP timeout | |
| NetWare | | |
| En | сарТуре | |
| RP | RINTER number | |
| Pri | int server name | |
| File | e server name | |
| Co | ontext name | |
| Sv | vitch | |
| | Mode | |
| | NDS/Bindery | |

| | ltem | Description |
|-------|---------------------------|-----------------------|
| | Packet negotiation | |
| | Login Mode | |
| Р | rint job timeout | |
| P | rotocol | |
| S | AP interval time | |
| \ \ \ | NDS Tree Name | |
| T | ransfer Protocol | |
| SMB | | SMB settings |
| S | witch | |
| | Mode | |
| | Direct print | |
| | Notification | |
| V | Vorkgroup name | |
| C | Computer name | |
| C | Comment | |
| S | hare name [1] | |
| P | rotocol | |
| Wirel | ess LAN | Wireless LAN settings |
| Н | lost Name | |
| C | Communication Mode | |
| S | SID | |
| C | Channel | |
| S | ecurity | |
| V | VEP Authentication | |
| V | VEP Encryption key number | |

| | ltem | Description |
|----------|--------------------------|-------------------------------|
| | WEP Encryption keys [X] | X can be set between 1 and 4. |
| | WPA Encryption | |
| | WPA Authentication | |
| | Pre-Shared Key | |
| | User name | |
| | Domain name | |
| | ЕАР Туре | |
| | Password | |
| | Phase 2 user name | |
| | Phase 2 Method TTLS | |
| | Phase 2 Method PEAP | |
| | Server cert. | |
| | Intermediate CA | |
| | Server ID | |
| | Sub domain | |
| | MIC check | |
| Ethernet | | |
| | 802.1X Authentication | |
| DN | S | DNS settings |
| | IPv4 | |
| | Server [X] | X can be set between 1 and 3. |
| | Selected IPv4 DNS Server | |
| | IPv6 | |
| | Server [X] | X can be set between 1 and 3. |
| | Selected IPv6 DNS Server | |

| | ltem | Description |
|-------------|------------------------|------------------|
| | Resolver Protocol | |
| Domain name | | |
| | ether | |
| | wlan | |
| DDNS | | |
| | ether | |
| | wlan | |
| WI | NS | WINS settings |
| | ether | |
| | Primary WINS | |
| | Secondary WINS | |
| | wlan | |
| | Primary WINS | |
| | Secondary WINS | |
| SSDP | | SSDP settings |
| | UUID | |
| | Profile | |
| | TTL | |
| UPnP | | UPnP settings |
| | URL | |
| Bonjour | | Bonjour settings |
| | Computer Name (cname) | |
| | Local Hostname (ether) | |
| | Local Hostname (wlan) | |
| | Location | |

| | Item | Description |
|----------|-------------------------------|-------------------------------|
| | Priority (diprint) | |
| | Priority (lpr) | |
| | Priority (ipp) | |
| | IP TTL | |
| | LinkLocal Route for Multi I/F | |
| | IPP Port | |
| SNMP | | SNMP settings |
| | SNMPv1v2 | |
| | SNMPv3 | |
| | protocol | |
| | v1Trap | |
| | v2Trap | |
| | v3Trap | |
| | SNMPv1v2 Remote Setting | |
| | SNMPv3 Privacy | |
| ssh | | ssh settings |
| | Compression | |
| | Port | |
| | TimeOut | |
| | Login TimeOut | |
| AuthFree | | Authfree settings |
| | IPv4 | |
| | AuthFree Entry [X] | X can be set between 1 and 5. |
| | IPv6 | |
| | AuthFree Entry [X] | X can be set between 1 and 5. |

| ltem | | Description |
|-------------|---------------------------|----------------------|
| | Parallel | |
| | USB | |
| LPR | | |
| | lprm check host | |
| | lpr prnerr chk | |
| Се | rtificate | |
| | Verification | |
| WS | S-MFP | |
| | Network Device Name | |
| | Comments | |
| | Location | |
| | Presentation URL | |
| | WSD (Device) TCP Port | |
| | WSD (Printer) TCP Port | |
| | WSD (Printer) Job Timeout | |
| | WSD (Scanner) TCP Port | |
| | MetadataVersion | |
| | UUID | |
| IEEE 802.1X | | IEEE 802.1X settings |
| | User name | |
| | Domain name | |
| | ЕАР Туре | |
| | Password | |
| | Phase 2 user name | |
| | Phase 2 Method TTLS | |

| | ۲. | |
|----|----|---|
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| | ltem | Description |
|------------|---------------------|------------------------------|
| | Phase 2 Method PEAP | |
| | Server cert | |
| | Intermediate CA | |
| | Server ID | |
| | Sub domain | |
| Shell mode | | Remote maintenance tool mode |

This is a list of messages that appear in the machine'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", "ftp", and "sftp" 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 on 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. |
| account is unavailable: encryption is impossible. | Encryption is not possible and account is disabled. This could be because: • Security option is not installed. • Encryption password has not been specified. |
| account is unavailable: same account name be used. | User account is disabled. This could be because it use the same account name as the administrator account. |
| account is unavailable: The authentication password is not set up. | User account is disabled. This could be because the authentication password is not set, and only the encryption account is set. |
| add_sess_IPv4: bad trap addr: <ipv4 address="">, community: <community name=""></community></ipv4> | The IPv4 address (0.0.0.0.) is unavailable when the community access type is TRAP. Specify the host IPv4 address for the TRAP destination. |
| add_sess_IPv4: community <community name=""> already defined.</community> | The same community name already exists. Use another community name. |
| add_sess_IPv6: bad trap addr: <ipv6 address="">, community: <community name=""></community></ipv6> | The IPv6 address [::] is unavailable when the community access type is TRAP. Specify the host IPv6 address for the TRAP destination. |

| Message | Problem and solutions |
|--|--|
| add_sess_IPv6: community <community name=""> already defined.</community> | The same community name already exists. Use another community name. |
| add_sess_IPX: bad trap addr: <ipx address=""> community <community name=""></community></ipx> | The IPX address (00:00:00:00:00) is unavailable when the community access type is TRAP. Specify the host IPX address for the TRAP destination. |
| add_sess_IPX: community <community name=""> already defined.</community> | The same community name already exists. Use another community name. |
| adjust time server < NTP server name > offset: xx sec. | ncsd tells you the timing of the NTP server and whether or not the time system clock is set. |
| Attach FileServer= <file 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. |
| centrod is disabled. | Communication via parallel connections unavailable because centrod is disabled in the security mode. |
| | Enable centrod in the security mode. |
| child process exec error! <pre><pre>child process exec error! <pre><pre>child process exec error! <pre><pre>child process exec error! <pre><pre>child process exec error! <pre>child process exec exec exec exec exec error! <pre>ch</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre> | 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 DHCPv6 server <ipv6 address=""></ipv6> | The IP address was successfully received from the DHCPv6 server. |
| connection from <ip address=""></ip> | A user logged in from the host <ip address="">.</ip> |
| 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. |

| Message | Problem and solutions |
|--|---|
| Current Interface Speed: <ethernet f="" i="" speed=""></ethernet> | Speed of the Ethernet interface (10Mbps, 100 Mbps, or 1Gbps). |
| Current IPX address <ipx address=""></ipx> | Current IPX address. |
| DHCPv6 server not found. | The DHCPv6 server was not found. Make sure that the DHCPv6 is on the network. |
| Duplicate IP= <ip address=""> (from<mac address="">).</mac></ip> | A conflicting IPv4 or IPv6 address was used. Each IPv4 or IPv6 address must be unique. Check the device address in [MAC address]. |
| Established SPX Connection with PServer, (RPSocket= <socket number="">, connID=<connection id="">)</connection></socket> | (In the remote printer mode) Connection to the print server has been established. |
| Frametype= <frametype name=""></frametype> | The frame type name is configured to be used on NetWare. |
| Exit pserver | (In the print server mode) The print server function is disabled because the necessary print server settings have not been made. |
| IEEE 802.11 Card does NOT support WPA . | A wireless card that does not support WPA is installed. Install a wireless card that supports WPA. |
| IEEE 802.11 Card Firmware REV. <version></version> | Displays the version number of the 802.11 card's firmware. |
| IEEE 802.11 current channel <channel number=""></channel> | Displays the current channel number of the active wireless card (in ad hoc and infrastructure mode). |
| IEEE 802.11 MAC Address = <mac address=""></mac> | Displays the MAC address of the wireless interface. |
| IEEE 802.11 SSID <ssid> (AP MAC Address <mac address="">)</mac></ssid> | The MAC address and SSID of the access point are connected in infrastructure mode. |
| IEEE 802.11 <communication mode=""> mode</communication> | Displays IEEE 802.11 communication mode. |
| (IKE phase-1) mismatched authentication type: local= <authentication 1="" type=""> remote=<authentication 2="" type=""></authentication></authentication> | This machine's <authentication 1="" type=""> in IKE phase 1 does not match the communicating host's <authentication 2="" type="">, Make sure this machine's ISAKMP SA authentication type matches that of the communicating host.</authentication></authentication> |

| Message | Problem and solutions |
|--|--|
| (IKE phase-1) mismatched encryption type: <encryption 1="" algorithm=""> remote=<encryption algorithm 2></encryption </encryption> | This machine's ISAKMP SA Oakley group <encryption 1="" algorithm=""> in IKE phase 1 does not match the communicating host's ISAKMP SA Oakley group < encryption algorithm 2>, Make sure this machine's ISAKMP SA Oakley group matches that of the communicating host.</encryption> |
| (IKE phase-1) mismatched DH group: local= <dh 1="" group="" number=""> remote=<dh 2="" group="" number=""></dh></dh> | This machine's ISAKMP SA Oakley group <dh 1="" group="" number=""> in IKE phase 1 does not match the communicating host's ISAKMP SA Oakley group <dh 2="" group="" number="">, Make sure this machine's ISAKMP SA Oakley group matches that of the communicating host.</dh></dh> |
| (IKE phase-1) mismatched hash type: local= <hash Algorithm 1> remote=<hash 2="" algorithm=""></hash></hash | This machine's ISAKMP SA <hash 1="" algorithm=""> in IKE phase 1 does not match the communicating host's ISAKMP SA <hash 2="" algorithm="">, Make sure this machine's ISAKMP SA Hash Algorithm matches that of the communicating host.</hash></hash> |
| IKE [% s] is disable, set PSK text | The specified IKE entry invalid. Enter the PSK text. |
| < Interface > started with IP: < IP address > | IP address (IPv4 or IPv6 address) has been set for the interface and is operating. |
| inetd start. | The inetd service has started. |
| job canceled. jobid=%d. | The spooled job was canceled due to error or user request. |
| Lease Time= <lease time="">(sec), RenewTime=<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 bindery="" =""></nds></ipx></file> | When the print server was online, the system logged in to <file server=""> in NDS or BINDERY mode. The transfer protocol in use is also displayed.</file> |
| Manual [% s] is disable, set authentication key | The specified manual SA entry could is invalid. Set the authentication key. |
| Manual [% s] is disable, set encryption key | The specified manual SA entry could is invalid. Set the authentication key. |

| Message | Problem and solutions |
|---|---|
| Name registration failed. name= <netbios name=""></netbios> | Name registration of <netbios name=""> failed. Change to a different NetBIOS name.</netbios> |
| Name registration success in Broadcast name= <netbios name=""></netbios> | Name registration by <netbios name=""> broadcast was successful.</netbios> |
| Name registration success. WINS server= <wins address="" server=""> NetBIOS Name=<netbios name=""></netbios></wins> | Name registration of <netbios name=""> to <wins address="" server=""> was successful.</wins></netbios> |
| npriter start. (NetWare) | (In the remote printer mode) The NetWare service has started. |
| Open log file <file name=""></file> | (In the print server mode) The specified log file has been opened. |
| 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. |
| Printer 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 printer</print> | (In the print server mode) The printer is not assigned to the print server. Using NWadmin, assign the printer, and then restart it. |
| Print sessions full | No more print jobs can be accepted. Wait a while before sending any more print jobs. |
| pserver start. (NetWare) | (In the print server mode) The NetWare service has started. |
| Required file server (<file name="" server="">) not found</file> | The required file server <file name="" server=""> could not be found.</file> |
| sap enable. saptype= <sap type="">, sapname=<sap name=""></sap></sap> | The SAP function was started. The SAP packet is issued to advertise the service in the SAP table on the NetWare server. |
| session_IPv4 <community name=""> not defined.</community> | The requested community name is not defined. |
| session_IPv6 <community name=""> not defined.</community> | The requested community name is not defined. |

| Message | Problem and solutions | |
|--|---|--|
| session_IPX <community name=""> not defined.</community> | The requested community name is not defined. | |
| Set context to <nds context="" name=""></nds> | The NDS context name <nds context="" name=""> has been set.</nds> | |
| shutdown signal received. network service rebooting | The network reboot process is starting. | |
| Smbd start. (NetBIOS) | SMBD (Server Message Block Daemon) has been started. | |
| SMTPC: failed to get smtp server ip-address. | The SMTP server IP address could not be obtained. This could be because: | |
| | The specified DNS server could not be found. | |
| | No connection to the network has been established. | |
| | 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. timeout. | Connection to the SMTP server failed due to timeout. This could be because the specified SMTP server name is incorrect, or no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server. Check the SMTP server name, or the network connection and configuration. | |
| SMTPC: refused connect by smtp server. | Connection to the SMTP server is denied. This could be because server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number. | |

| 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 because a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the SMTP server name, port number, or the SMTP server port number. |
| SMTPC: failed to connect smtp server. | Connection to the SMTP server failed. This could be because no connection to the network has been established, or the network configuration is incorrect, so there is no response from the SMTP server, or the specified SMTP server name is incorrect, or the specified SMTP server IP address could not be found in the DNS server, or a server other than the SMTP server has been specified, or the specified SMTP server port number is incorrect. Check the DNS Server's IP address and SMTP server's IP address, or the SMTP server name and SMTP port number, or the SMTP server's SMTP port number, or the network connection and configuration. |
| SMTPC: username or password wasn't correct. [response code] (information) | Connection to the SMTP server failed, because the specified SMTP user name is incorrect, or the specified SMTP password is incorrect. Check the SMTP user name and password. |
| Snmp over IPv4 is ready | Communication over IPv4 with snmp is available. |
| Snmp over IPv6 is ready. | Communication over IPv6 with snmp is available. |
| Snmp over IPX is ready. | Communication over IPX with snmp is available. |
| snmpd start. | The snmpd service has started. |
| The print server received error <error number=""> during attempt to log in to the network. Access to the network was denied. Verify that the print server name and password are correct.</error> | Login to the file server failed when the print server was online. The print server is not registered or a password is specified. Register the print server without specifying a password. |
| 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 |
|--|---|
| Updated (option name)(value) via DHCPv6 Server | The parameter obtained from the DHCP server has been updated. |
| WINS name registration: No response to server (WINS server address) | There was no response from the WINS server. Check that the correct WINS server address is entered. Also, check that the WINS server is functioning properly. |
| WINS wrong scope ID= <scope id=""></scope> | The scope ID is invalid. Use a valid scope ID. |
| write error occurred. (diskfull) | A "diskfull" error occurred while the machine was writing to the spool file. Wait for the current print job to finish, When it finishes, more HDD space will be available. Only pages that were spooled when the error occurred will be printed. |
| write error occurred. (fatal) | A fatal error occurred while the printer was writing to the spool file. Turn off the power of the printer, and then turn it on again. If the error recurs, contact your service representative. The print job that was being spooled when the error occurred will not be printed. |
| WSD (Device) started. | WS-Device has started. |
| WSD (Printer) started. | WS-Printer has started. |
| WSD (Scanner) started. | WS-Scanner has started. |
| #[nfa (process ID)] <time date=""> + Failed to send logos to a log collection server <ip address="">.</ip></time> | An error occurred while trying to send a log file to both the primary and secondary log collection servers. |
| #[nfa (process ID)] <time date=""> + Failed to send logs to a collection server <ip address=""> n time(s) in 1 hour.</ip></time> | 60 minutes has passed since the last log entry. During that time, an error occurred while trying to send the log file to both the primary and secondary log collection servers. |



• For details about UNIX commands and parameters, see UNIX Supplement.

5. Registering Addresses and Users for Facsimile/Scanner Functions

This chapter describes how to register destinations and users in the Address Book. For details on how to access System Settings, see "Accessing System Settings".

Address Book

This section describes Address Book settings.

Registering information such as the names of users and their e-mail addresses in the Address Book allows you to manage them easily.



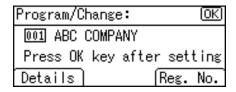
- Address Book data is stored on the hard disk. It can be lost if there is some kind of hard disk failure.
- The manufacturer shall not be held responsible for any damages resulting in data loss.

You can register and manage the following items in the Address Book:

Name

You can register the name of the user and the key display. This is the basic information required for managing users of the machine.

To register a fax number or e-mail address in the address book, you must register information such as the user name and destination name in advance.



Auth. Info (Authentication Information)

You can register user codes in order to restrict particular functions to certain users, and to check their use of each function. You can also register login user names and login passwords to be used when sending e-mail, sending to folders, or accessing an LDAP server.



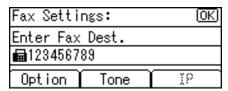
Auth.Protect (Authentication Protection)

You can set protection codes to stop sender's name from being used or folders from being accessed without authorization.

Fax Settings

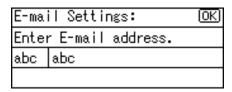
You can register fax numbers, line, fax header and select label insertion.

When using IP-Fax, you can register the IP-Fax destination and select the protocol.



E-mail Settings

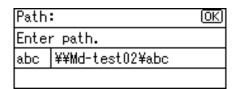
You can register e-mail destinations in the Address Book.



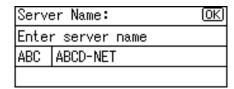
Folder Info (Folder Information)

You can register the protocol, path name and server name.

• SMB

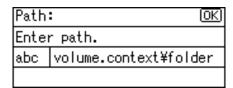


• FTP



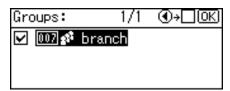
NCP

E



Register Group to

You can put registered e-mail and folder destinations into a group for easier management.





- You can also use Web Image Monitor to register names in the Address Book. With SmartDeviceMonitor for Admin, you can register multiple names at the same time. For details about using Web Image Monitor, see Web Image Monitor Help.
- Using Address Management Tool in SmartDeviceMonitor for Admin, you can backup Address Book data. We recommend backing up data when using the Address Book. For operating instructions, see SmartDeviceMonitor for Admin Help.

Managing Names in the Address Book

By registering a name and key display beforehand, you can specify e-mail and folder destinations simply by selecting the name key.



• p.230 "Registering Names"

Sending fax by Quick Dial

Register a fax number in the Address Book so you can specify it only by selecting the fax destination, shown on the fax initial display when sending a fax. When label insertion is set to "On", the receiver's name is printed on the fax message when it is received at the other end.

By registering IP-Fax destinations in the Address Book, you can specify a destination simply by selecting it from the destinations that appear in the initial fax display. Registered IP-Fax numbers can be used and printed as sender's IP-Fax numbers.

Reference

• p.251 "Fax Destination"

Sending e-mail by Quick Dial

By registering e-mail addresses in the Address Book, you can specify e-mail destinations simply by selecting them from the fax initial display when sending a document by Internet fax or e-mail.

You can also specify an e-mail address by selecting the destination shown on the initial scanner display when sending a document using the scanner function. A registered e-mail address can be used as the sender's address, and the sender's addresses are automatically entered in the "From" field of an e-mail header.

Reference

• p.274 "E-mail Destination"

Sending received fax documents or scanned files to a shared folder directly

After registering the path name, user name and password, you can connect to a shared folder simply by selecting the destination shown on the initial facsimile display whenever sending files using the facsimile function to a shared folder. You can also connect to a shared folder by selecting the destination shown on the initial scanner display whenever sending files using the scanner function.

To share the folder using Windows, select the SMB protocol.

To register the folder to the FTP server, select the FTP protocol.

To register the folder to the NetWare server, select the NCP protocol.

■ Reference

p.282 "Registering Folders"

Preventing unauthorized user access to shared folders from the machine

After registering a protection code, you can specify the object of protection to prevent an e-mail destination from being used without permission.

You can prevent unauthorized access to registered folders.

Reference

• p.334 "Registering a Protection Code"

Managing users and machine usage

Register user codes to limit users to the following functions and check their use of each function:

- Copier
- Facsimile

- Printer
- Scanner

■ Reference

• p.235 "Authentication Information"

Registering Names

Register user information including their names.

The user name is useful for selecting a destination when sending faxes.

You can register up to 150 names.

Registering Names

This section describes how to register names.

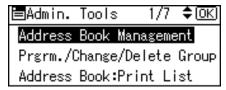
- 1. Press the [User Tools/Counter] key
- 2. Select [System Settings] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.



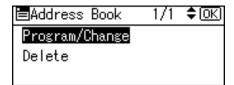
3. Select [Administrator Tools] using [▲] and [▼], and then press the [OK] key.



4. Select [Address Book Management] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.

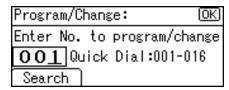


Select [Program/Change] using [▲] and [▼], and then press the [OK] key.



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6. Enter the registration number you want to program using the number keys or the Quick Dial keys, and then press the [OK] key.

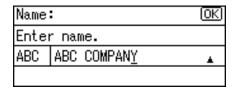


When you register a new Reg. No., currently available numbers are automatically displayed.

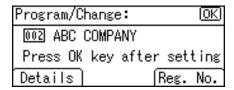
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

7. Enter the name, and then press the [OK] key.

For the user name, up to 20 characters are usable.



8. Press the [OK] key.

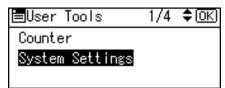


9. Press the [User Tools/Counter] key.

Changing a Registered Name

This section describes how to change a name.

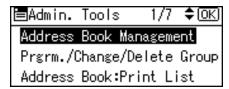
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] and [▼], and then press the [OK] key.



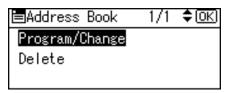
3. Select [Administrator Tools] using [A] and [V], and then press the [OK] key.



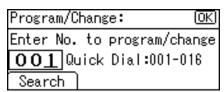
4. Select [Address Book Management] using [$^{\blacktriangle}$] and [$^{\blacktriangledown}$], and then press the [OK] key.



5. Select [Program/Change] using [▲] and [▼], and then press the [OK] key.



6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.

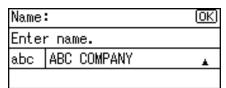


If you do not wish to change the registration number, proceed to the next step.

You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

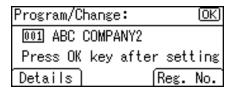
Press [Search] to search by name, registration number, user code, fax destination, E-mail address, folder name.

7. Enter the new name, and then press the [OK] key.



5

8. Press the [OK] key.



To change a registration number, press [Reg. No.].

Enter a new number using the number keys or a Quick Dial key, and then press the [OK] key.

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

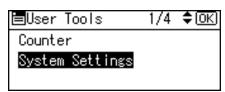


• You can search by the registered name, or fax number.

Deleting a Registered Name

This section describes how to delete a name.

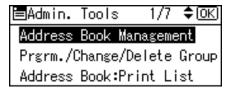
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] and [▼], and then press the [OK] key.

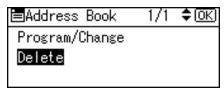


3. Select [Administrator Tools] using [▲] and [▼], and then press the [OK] key.

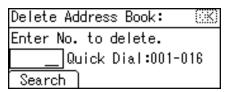


4. Select [Address Book Management] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.





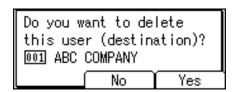
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, registration number, user code, fax number.

7. Press [Yes].



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

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5

Authentication Information

Following describes the procedure for authenticating a user code.



 The functions associated with each user code are the same. If you change or delete user codes, management data and limits associated with that code become invalid.

Register user codes to limit users to the following functions and check their use of each function:

- Copier
- Facsimile
- Printer
- Scanner



- You can register up to 100 user codes.
- The number of copies scanned using the scanner function is counted for each user code. This allows
 you to check each user's usage.
- To automatically register the printer driver user code, select [Auto Program] under Printer for the printer
 in User Code Authentication. To use the user code set in User Tools, set the user codes registered in
 User Tools for the printer driver.
- For details about setting user codes for the printer driver, see the printer driver Help.

Reference

• p.40 "Administrator Tools"

Registering a User Code

This section describes how to register a user code.

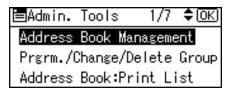
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



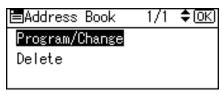
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



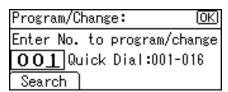
4. Select [Address Book Management] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



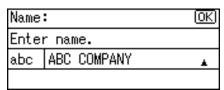
6. Enter the registration number you want to program using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

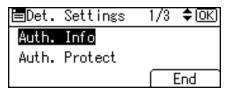


r

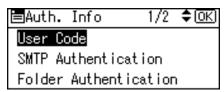
8. Press [Details].

| Program/C | hange: | <u>(0K)</u> |
|-----------|-----------|-------------|
| 001 ABC | COMPANY | |
| Press OK | key after | setting |
| Details | l (i | Reg. No. |

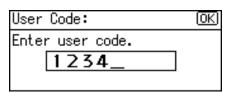
9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



10. Select [User Code] using [▲] or [▼], and then press the [OK] key.



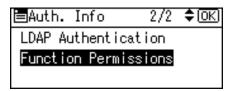
11. Enter the user code using the number keys, and then press the [OK] key.



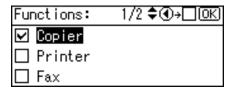
If you have entered a wrong code, press the [Clear/Stop] key and then enter the correct code again.

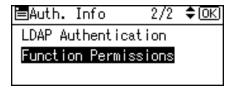
You can use up to eight digits for specifying the user code.

12. Select [Function Permissions] using [▲] or [▼], and then press the [OK] key.

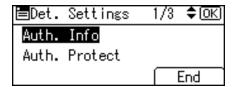


13. Select the function you want to set the user code for using [▶], and then press the [OK] key.

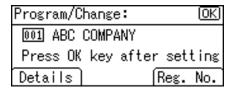




15. Press [End].



16. Press the [OK] key.



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



- You can enter a one-to eight-digit user code.
- To register the name, see "Registering Names".

■ Reference

• p.230 "Registering Names"

Changing a User Code

This section describes how to change a user code.



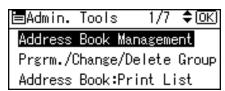
- Even if you change a user code, the counter value will not be cleared.
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



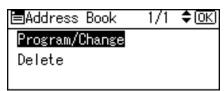
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



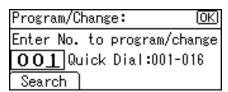
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



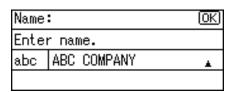
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-016 by pressing the Quick Dial key.

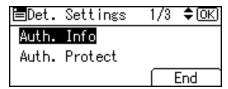
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

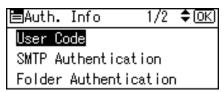




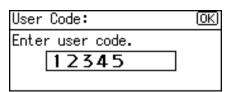
9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



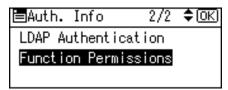
10. Select [User Code] using [▲] or [▼], and then press the [OK] key.



11. Enter the new user code using the number keys, and then Press the [OK] key.

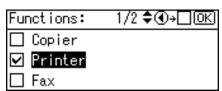


12. Select permit Functions on Auth. using [▲] or [▼], and then press the [OK] key.

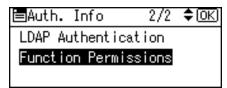


 Check the registered function you want to change the user code for, and then press the [OK] key.

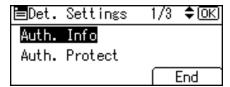
To select the check box, use $[^{\bullet}]$. To clear the check box, use $[^{\blacktriangleleft}]$.



14. Press the [Escape] key.



15. Press [End].



16. Press the [OK] key.



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



• To change the name, key display and title, see "Registering Name".

■ Reference

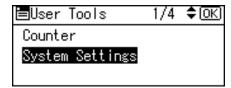
• p.230 "Registering Names"

Deleting a User Code

This section describes how to delete a user code.



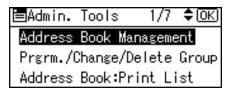
- After clearing the user code, the counter is automatically cleared.
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



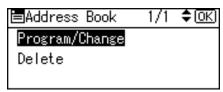
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



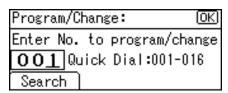
4. Select [Address Book Management] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



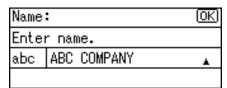
6. Enter the registration number you want to delete using the number keys, and then press the [OK] key.



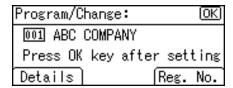
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

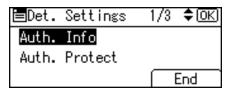
7. Press the [OK] key.



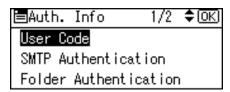
8. Press [Details].



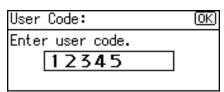
9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



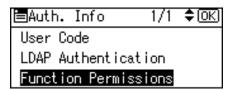
10. Select [User Code] using [▲] or [▼], and then press the [OK] key.



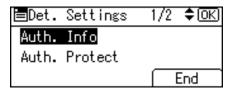
11. Press the [Clear/Stop] key to the user code, and then press the [OK] key.



12. Press the [Escape] key.



13. Press [End].



- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



• To delete a name from the Address Book entirely, see "Registering Name".

■ Reference

• p.230 "Registering Names"

Displaying the Counter for Each User

This section describes how to display the counter for each user.

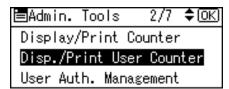
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



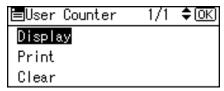
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



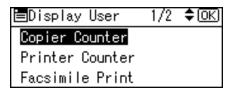
4. Press [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



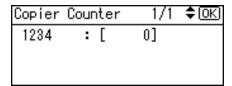
5. Select [Display] using [▲] or [▼], and then press the [OK] key.



Select the function you want to display the counter for using [▲] or [▼], and then press the [OK] key.



7. Press the [OK] key.



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

Printing the Counter for Each User

This section describes how to display the counter for each user.

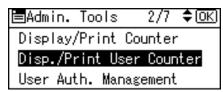
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.

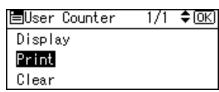


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

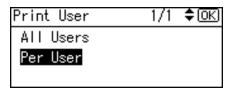


Press [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.





6. Select [Per User] using [▲] or [▼], and then press the [OK] key.



7. Select the method of user selection using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



8. Select the user to print.

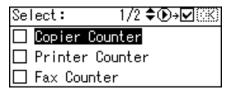
If you select [Manual] in step 7, enter the user code and then press the [OK] key.

| User | Counter:Print | |
|-------|------------------|--|
| Enter | r user to print. | |
| abc | | |
| | | |

If you select Display Destination List in step 7, confirm the user code using [*] and then press the [OK] key.

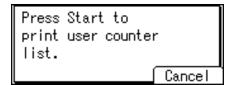
| User List: | 1/3 ♦⊙→ ☑€K |
|------------|--------------------|
| □ 0001 | |
| ☐ 1234 | |
| 12345678 | |

Select the function you want to print the counter for using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



5

10. Press the [Start] key.

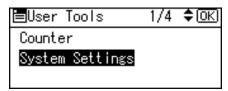


11. Press the [User Tools/Counter] key.

Printing the Counter for All Users

This section describes how to print the counter for all users.

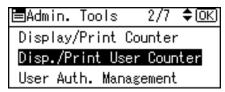
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



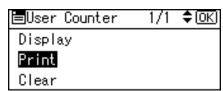
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

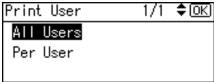


Select [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.

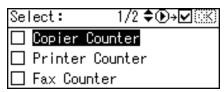


Select [Print] using [▲] or [▼], and then press the [OK] key.





7. Select the function you want to print the counter for using [♠] or [♥], and then confirm it by pressing [▶], and then press the [OK] key.



8. Press the [Start] key.

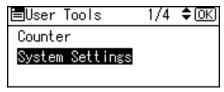


9. Press the [User Tools/Counter] key.

Clearing the Number of Prints

This section describes how to clear the counter.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.

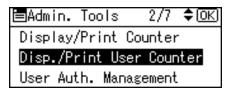


3. Select [Administrator Tools] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.

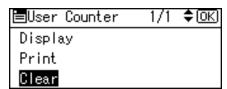


E

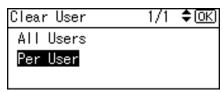
4. Select [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



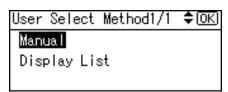
5. Select [Clear] using [▲] or [▼], and then press the [OK] key.



6. Select [Per User] using [▲] or [▼], and then press the [OK] key.



7. Select the method of user selection using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.

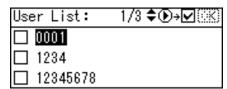


8. Select the user to clear.

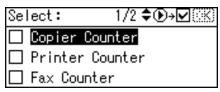
If you select Manual in step 7, enter the user code and then press the [OK] key.

| User Counter:Clear | (EK) |
|----------------------|------|
| Enter user to clear. | |
| abc _ | |
| | |

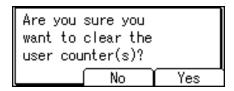
If you select Display Destination List in step 7, confirm the user code using $[^{\triangleright}]$ and then press the [OK] key.



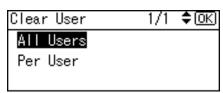
Select the function you want to clear the counter for using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



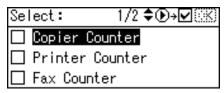
10. Press [Yes].



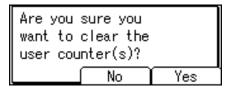
If you want to clear the counter for all users, select [All Users] using [♠] or [▼], and then
press the [OK] key.



Select the function you want to clear the counter for using [♠] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



13. Press [Yes].



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

Fax Destination

This section describes the procedure for registering, changing, and deleting Fax Destinations.

Register a fax destination so you do not need to enter fax numbers each time, and can send documents that have been scanned in using the facsimile function.

- It is easy to select the fax destination if you register "Name" for the fax destination.
- You can register fax destinations as a group.
- You can register fax destinations by selecting them from redial function.
- Registered Fax numbers can be used as sender's Fax numbers.

There are two types of fax destination, as shown below:

• Fax Destination

Select this to send the fax over the telephone network.

IP-Fax Destination

Select this to send the fax to a machine on a TCP/IP network.

You cannot send the fax to a machine on another network if that network is behind a firewall.

You can program the following items in a fax destination:

Fax number

Registers the destination's fax number. You can enter a fax number using up to 128 digits. You must include every digit in the number.

SUB Code

Registering a SUB Code allows you to use Confidential Transmission to send messages to the other fax machines which support a similar function called "SUB Code". See "SUB Code", Facsimile Reference.

SEP Code

Registering a SEP Code allows you to use Polling Reception to receive faxes from the other fax machines which support Polling Reception. See "SEP Code", Facsimile Reference.

International TX mode

When setting the International TX mode to [On], the machine transmits more carefully by lowering transmission speed. However, communication times increase.

Label insertion

Use label insertion to print information such as the destination name on the sheet printed out at the destination.

Data is printed as follows:

Destination Name

The destination name specified in [Fax Destination] is printed with "To" before it at the top of the sheet.

You can program the following items in an IP-Fax Destination:

IP-Fax

Register the IP-Fax destination. You can register the name using up to 128 characters. You must make this setting when using IP-Fax.

This setting only works if the IP-Fax function has been selected.

SUB Code

Registering a SUB Code allows you to use Confidential Transmission to send messages to the other fax machines which support a similar function called "SUB Code". See "SUB Code", Facsimile Reference.

SEP Code

Registering a SEP Code allows you to use Polling Reception to receive faxes from the other fax machines which support Polling Reception. See "SEP Code", Facsimile Reference.

Select Protocol

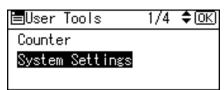
Select the protocol for the IP-Fax transmission.

This setting only works if the IP-Fax function has been selected.

Registering a Fax Destination

This section describes how to register a fax destination.

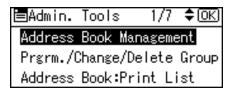
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



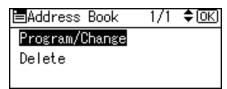
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



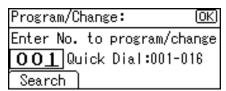
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



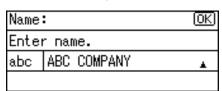
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



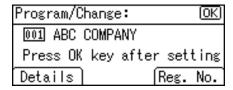
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



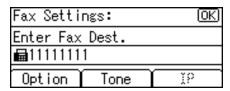
8. Press [Details].



Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Enter the fax number using the number keys, and then press the [OK] key.



- Specify optional settings such as "SUB Code", "SEP Code", "International TX Mode", and "Label Insertion".
- 12. Press [End].



- 13. Press the [OK] key.
- 14. Press the [User Tools/Counter] key.



- After entering a fax number, be sure to press the [OK] key. If you press the [Escape] key without pressing the [OK] key, the entered number is not registered.
- To register the name, see "Registering Names".
- When a group is registered, you can also add this fax destination to the group. For details about registering groups, see "Registering Names to a Group".

Reference

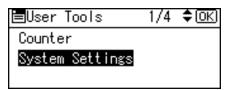
- p.230 "Registering Names"
- p.319 "Registering Names to a Group"

Changing a Fax Destination

This section describes how to change a registered fax destination.

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

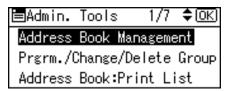
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



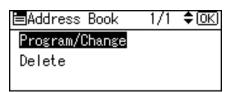
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



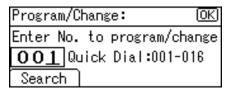
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

| Name | : | <u>(0K)</u> |
|-------------|-------------|-------------|
| Enter name. | | |
| abc | ABC COMPANY | |
| | | |

8. Press [Details].



Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



- 10. Enter again the item to be changed.
- 11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.



• To change the name, see "Registering Name".

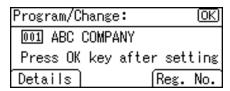


• p.230 "Registering Names"

Using a fax destination as a sender

Following describes the procedure for using a fax number as the sender (sending number).

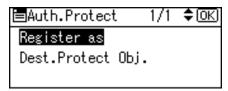
1. Press [Details].



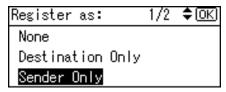
2. Select [Auth. Protect] using [▲] or [▼], and then press the [OK] key.



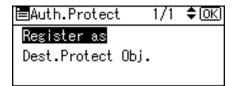
3. Select [Register as] using [▲] or [▼], and then press the [OK] key.



4. Select [Sender Only] using [▲] or [▼], and then press the [OK] key.



5. Press the [Escape] key.



6. Press [End].

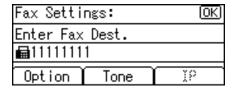


7. Press the [OK] key.

To change the fax number

This section describes how to change the fax number.

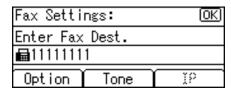
1. Enter the new fax number using the number keys, and then press the [OK] key.



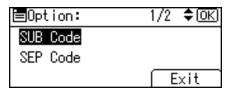
To program the SUB Code

This section describes how to program the SUB Code.

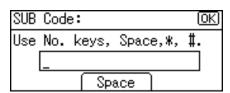
1. Press [Option].



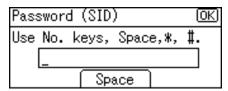
2. Select [SUB Code] using [▲] or [▼], and then press the [OK] key.



3. Enter the SUB Code using the number keys, and then press the [OK] key.

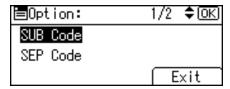


4. Enter the password using the number keys and then press the [OK] key.



E

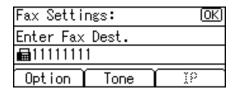
5. Press [Exit].



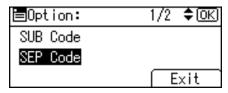
To program the SEP Code

This section describes how to program the SEP Code.

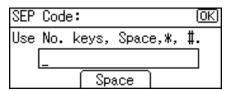
1. Press [Option].



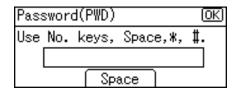
2. Select [SEP Code] using [▲] or [▼], and then press the [OK] key.



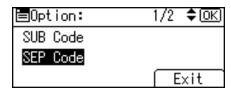
3. Enter the SUB Code using the number keys, and then press the [OK] key.



4. Enter the password using the number keys and then press the [OK] key.



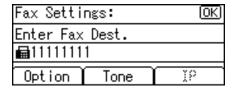
5. Press [Exit].



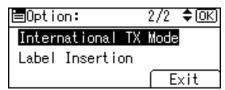
To set the International TX Mode

This section describes how to set the International TX Mode.

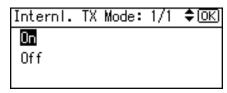
1. Press [Option].



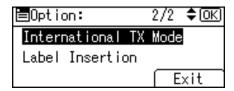
Select [International TX Mode] using [▲] or [▼], and then press the [OK] key.



3. Select [On] or [Off] using [▲] or [▼], and then press the [OK] key.



4. Press [Exit].

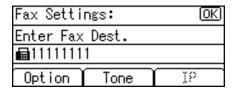


To set label insertion

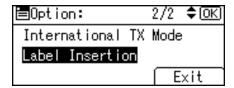
This section describes how to set label insertion.

When Label Insertion is set to ON, the receiver's name is printed on the fax message when it is received at the other end.

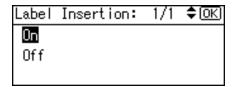
1. Press [Option].



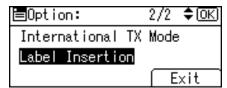
2. Select [Label Insertion] using [▲] or [▼], and then press the [OK] key.



3. Select [On] or [Off] using [▲] or [▼], and then press the [OK] key.



4. Press [Exit].





• To change the name, see "Registering Names".

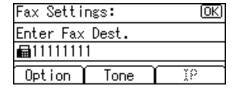
Reference

• p.230 "Registering Names"

Using the tone

This function allows the machine to send tonal signals when it is connected to a pulse dialing line (for example: to use a special service on a tone dialing line).

1. Press [Tone].



A tone is shown as a "T" on the display.

Deleting a Fax Destination

This section describes how to delete a registered fax destination.

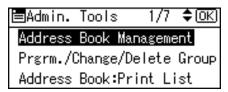
- If you delete a destination that is a specified delivery destination, messages to its registered Personal Box, for example, cannot be delivered. Be sure to check the settings in the fax function before deleting any destinations.
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



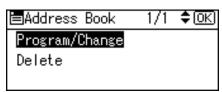
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



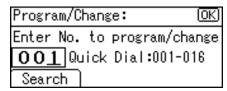
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

| Name | : | (OK) |
|-------------|-------------|------|
| Enter name. | | |
| abc | ABC COMPANY | |
| | | |

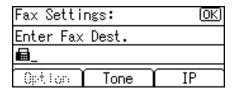
8. Press [Details].



9. Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Press the [Clear/Stop] key to delete the fax number, and then press the [OK] key.



11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.



• To delete the name, and title, see "Registering Names".

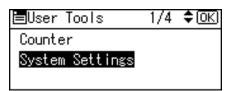
■ Reference

• p.230 "Registering Names"

Registering an IP-Fax Destination

This section describes how to register an IP-Fax Destination.

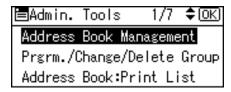
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



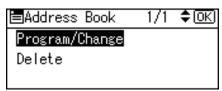
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



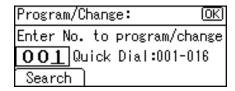
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



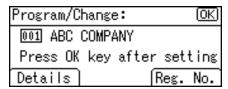
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

| Name | : | (<u>OK</u>) |
|-------------|-------------|---------------|
| Enter name. | | |
| | ABC COMPANY | |
| | | |

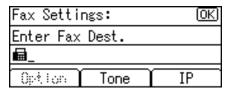
8. Press [Details].



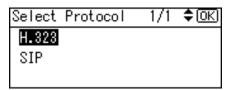
9. Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Press [IP].

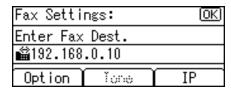


11. Select the protocol using [▲] or [▼], and then press the [OK] key.



12. Enter the IP-Fax destination, and then press the [OK] key.

| IP-Fax Destination: | (OK) |
|---------------------|------|
| Enter IP-Fax Dest. | |
| abc | |
| | |



- 14. Press the [OK] key.
- 15. Press [End].



- 16. Press the [OK] key.
- 17. Press the [User Tools/Counter] key.



• To register the name, see "Registering Names".

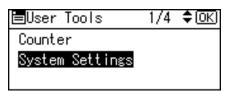
Reference

• p.230 "Registering Names"

Changing a Registered IP-Fax Destination

This section describes how to change an IP-Fax Destination.

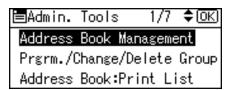
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



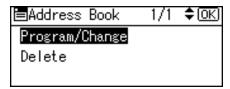
Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



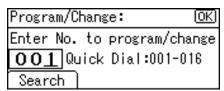
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



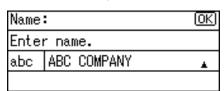
Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



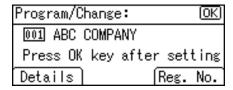
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

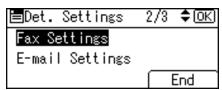
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



8. Press [Details].





- 10. Enter again the item to be changed.
- 11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.



• To change the name, key display and title, see "Registering Names".

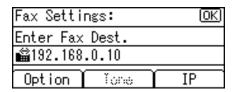


• p.230 "Registering Names"

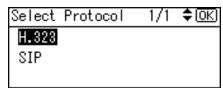
To change the protocol and IP-Fax destination

This section describes how to select the protocol.

1. Press [IP].



2. Select the protocol using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



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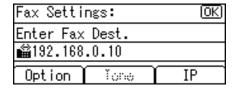
3. Enter the new IP-Fax destination and then press the [OK] key.

| IP-F | ax Destination: | (OK) |
|--------------------|-----------------|------|
| Enter IP-Fax Dest. | | |
| abc | 192.168.0.10 | |
| | | |

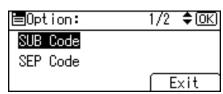
To program the SUB Code

This section describes how to program the SUB Code.

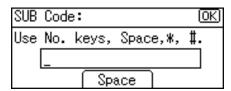
1. Press [Option].



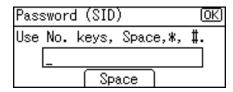
2. Select [SUB Code] using [▲] or [▼], and then press the [OK] key.



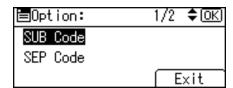
3. Enter the SUB Code using the number keys, and then press the [OK] key.



4. Enter the password using the number keys and then press the [OK] key.



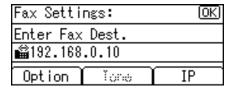
5. Press [Exit].



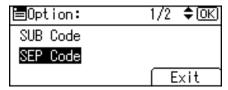
To program the SEP Code

This section describes how to program the SEP Code.

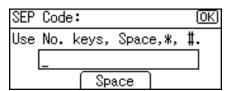
1. Press [Option].



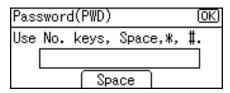
2. Select [SEP Code] using [▲] or [▼], and then press the [OK] key.



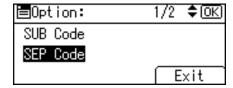
3. Enter the SUB Code using the number keys, and then press the [OK] key.



4. Enter the password using the number keys and then press the [OK] key.



5. Press [Exit].

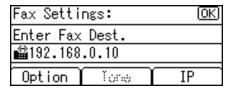


To set label insertion

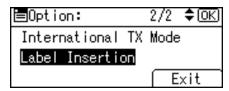
This section describes how to set label insertion.

When Label Insertion is set to On, the receiver's name is printed on the fax message when it is received at the other end.

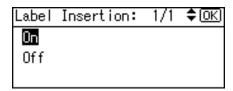
1. Press [Option].



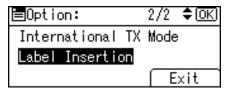
2. Select [Label Insertion] using [▲] or [▼], and then press the [OK] key.



3. Select [On] or [Off] using [▲] or [▼], and then press the [OK] key.



4. Press [Exit].





• To change the name, see "Registering Names".



• p.230 "Registering Names"

Deleting a Registered IP-Fax Destination

This section describes how to delete a registered IP-Fax destination.

If you delete a destination that is a specified delivery destination, messages to its registered Personal Box, for example, cannot be delivered. Be sure to check the settings in the fax function before deleting any destinations.

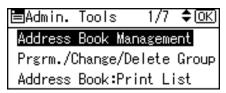
1. Press the [User Tools/Counter] key.



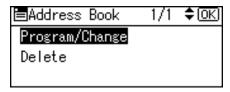
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



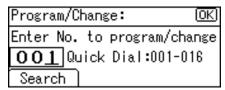
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

| Name | : | (<u>OK</u>) |
|-------------|-------------|---------------|
| Enter name. | | |
| | ABC COMPANY | |
| | | |

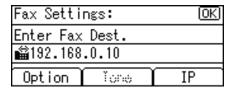
8. Press [Details].



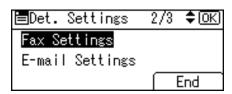
Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Press [IP] and then press the [OK] key.



- 11. Press the [Clear/Stop] key to delete the IP-Fax destination, then press the [OK] key twice.
- 12. Press [End].



- 13. Press the [OK] key.
- 14. Press the [User Tools/Counter] key.



• To change the name and title, see "Registering Names".

■ Reference

• p.230 "Registering Names"

E-mail Destination

This section describes the procedure for registering, changing, and deleting E-mail Destination.

Register e-mail destinations so you do not need to enter an e-mail address every time, and can send scan files from scanner or fax function by e-mail.

- It is easy to select the e-mail destination if you register "User (Destination) Name" as the e-mail destination.
- You can register e-mail destinations as a group.
- You can use the e-mail address as the sender's address when sending scan files in scanner mode. If
 you want to do this, set a protection code on the sender address to prevent unauthorized access.



- You can select an e-mail address from an LDAP server, and then register it in the Address Book. See
 "Sending Scan File by E-mail", Scanner Reference.
- You can set the machine to send a Transmission Result Report by e-mail whenever a transmission is sent. See Facsimile Reference.

Registering an E-mail Destination

This section describes how to register an e-mail destination.



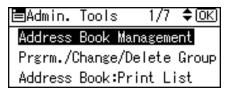
- When using a e-mail destination as the sender, you must register the user code previously.
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



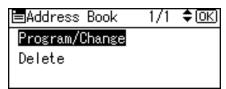
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



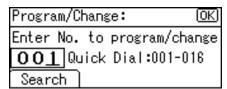
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



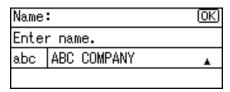
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

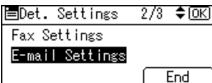
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

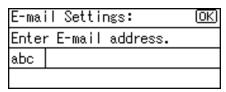


8. Press [Details].

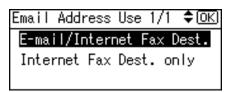




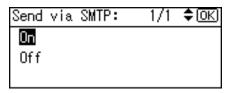
 Enter the e-mail address using the number keys and the Quick Dial keys, and then press the [OK] key.



Select [E-mail/Internet Fax Dest.] or [Internet Fax Dest. only] using [♠] or [♥], and then press
the [OK] key.



12. Select [On] or [Off] to specify whether or not SMTP server is to be used using [♠] or [♥], and then press the [OK] key.



13. Press [End].



- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



- You can enter up to 128 characters for the e-mail address.
- To register the name, see "Registering Names".



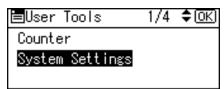


• p.230 "Registering Names"

Changing an E-mail Destination

This section describes how to change an e-mail destination.

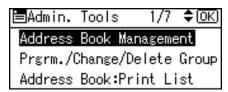
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



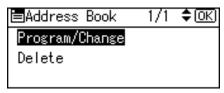
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



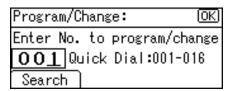
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



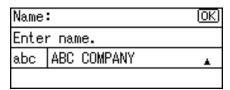
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



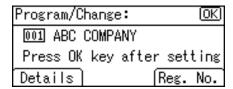
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

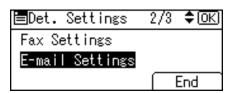
7. Press the [OK] key.



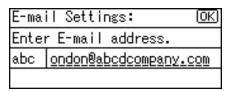
8. Press [Details].



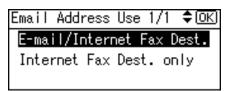
9. Select [E-mail Settings] using [▲] or [▼], and then press the [OK] key.



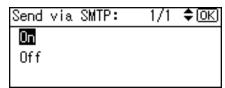
10. Enter the new e-mail address using the number keys and the Quick Dial keys, and then press the [OK] key.



Select [E-mail/Internet Fax Dest.] or [Internet Fax Dest. only] using [♠] or [▼], and then press
the [OK] key.



 Select [On] or [Off] to specify whether or not SMTP server is to be used using [▲] or [▼], and then press the [OK] key.



13. Press [End].



- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



• To change the name and title, see "Registering Names".

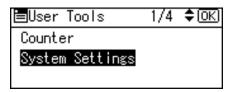
■ Reference

• p.230 "Registering Names"

Deleting an E-mail Destination

This section describes how to delete an e-mail destination.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.

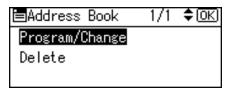


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

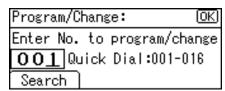


1/7 **♦**[0K] ■Admin. Tools Address Book Management Prgrm./Change/Delete Group Address Book:Print List

Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



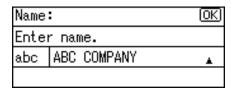
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



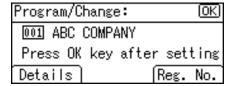
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



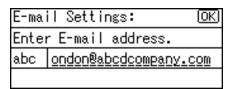
8. Press [Details].



9. Select [E-mail Settings] using [▲] or [▼], and then press the [OK] key.



10. Press the [Clear/Stop] key to delete the mail address, then press the [OK] key.



11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.



• To delete the name and title, see "Registering Names".

■ Reference

• p.230 "Registering Names"

Registering Folders

This section describes the procedure for registering, changing, and deleting folders.

By registering a shared folder, you can send scan files or received fax documents to it directly.

There are three types of protocol you can use:

• SMB

For sending files to shared Windows folders.

FTP

Use when sending files to an FTP server.

NCP

Use when sending files to a NetWare server.



- For details about protocols, server names, and folder levels, consult your network administrator.
- You can prevent unauthorized users from accessing folders from the machine. See "Registering a Protection Code".
- You can only select either SMB, FTP, or NCP. If you change protocol after finishing your settings, all previous entries are cleared.

Reference

• p.334 "Registering a Protection Code"

Registering an SMB Folder

This section describes how to register an SMB folder.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.

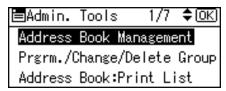


E

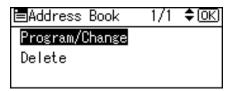
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



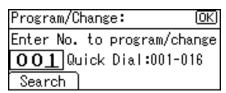
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



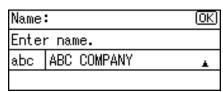
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

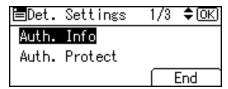
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.





9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



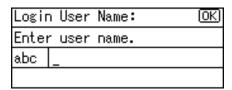
Select [Folder Authentication] using [▲] or [▼], and then press the [OK] key.



11. Select [Specify Other Auth. Info] using [▲] or [▼], and then press [User].



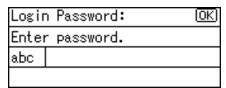
12. Enter the login user name, and then press the [OK] key.



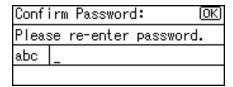
13. Press [Password].



14. Enter the password, and then press the [OK] key.



15. Enter the password again to confirm, and then press the [OK] key.



16. Press the [OK] key.



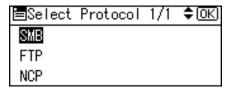
17. Press the [Escape] key.



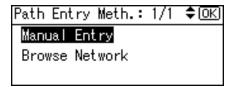
18. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.



19. Select [SMB] using [▲] or [▼], and then press the [OK] key.

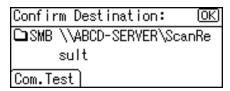


20. Select [Manual Entry] or [Browse Network] using [▲] or [▼], and then press the [OK] key.

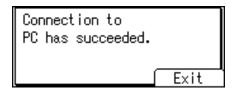


To specify a folder, you can either enter the path manually or locate the folder by browsing the network. See "Locating the folder manually" and "Locating the folder using Browse Network".

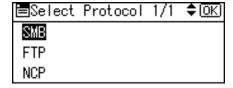
21. Press [Com.Test] to check the path is set correctly.



22. Press [Exit].



23. Press the [Escape] key.



24. Press [End].



- 25. Press the [Escape] key.
- 26. Press the [User Tools/Counter] key.



- To register the name, see "Registering Names".
- You can enter up to 64 characters for the user name.
- You can enter up to 64 characters for the password.

- You can enter a path using up to 128 characters.
- When [Do not Specify] is selected in step 11, the SMB User Name and SMB Password that you have specified in Default User Name/Password (Send) of File Transfer settings applies.
- If the connection test fails, check the settings, and then try again.
- If User Authentication is specified, contact your administrator.

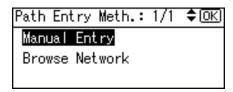


- p.36 "File Transfer"
- p.230 "Registering Names"

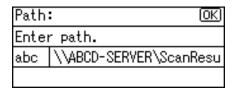
Locating the SMB folder manually

This section describes how to locate the SMB folder manually.

1. Select [Manual Entry] using [▲] or [▼], and then press the [OK] key.



2. Enter the path and then press the [OK] key.



If the format of the entered path is not correct, a message appears. Press [Exit], and then enter the path again.

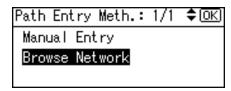


- Enter the path using this format: "\\ServerName\Share- Name\PathName".
- You can also enter an IPv4 address.
- You can enter a path using up to 128 characters.

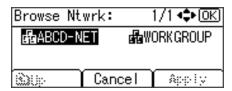
Locating the SMB folder using browse network

This section describes how to locate the SMB folder using Browse Network.

1. Select [Browse Network] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



2. Select a work group using the scroll keys, and then press the [OK] key.

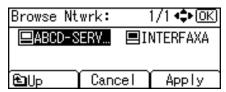


The client computers sharing the same network as the machine appear.

Network display only lists client computers you are authorized to access.

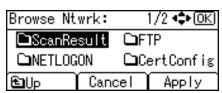
3. Select a client computer using the scroll keys, and then press the [OK] key.

Shared folders under it appear.

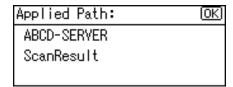


You can press [Up] to switch between levels.

4. Select the folder you want to register using the scroll keys, and then press [Apply].



5. Press the [OK] key.



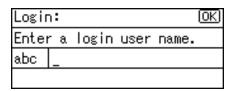
If a login screen appears

This section describes how to log on to the machine if the login screen appears when you try to access a folder by browsing the network.

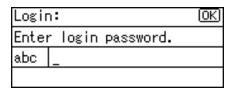
If you have not specified folder authentication, or if an incorrect user name or password has been entered for folder authentication, the login screen appears.

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

Enter the login user name specified for folder authentication.



2. Enter the password, and then press the [OK] key.



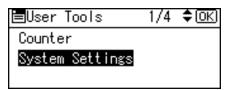
The path to the selected folder appears.

If a message appears, press [Exit], and then enter the login user name and password again.

Changing an SMB Folder

This section describes how to change settings of the registered SMB folder.

- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

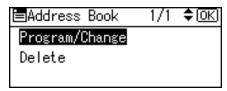


■Admin. Tools 1/7 **◆** <u>OK</u> <u>Address Book Management</u> Prgrm./Change/Delete Group

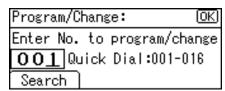
Prgrm./Change/Delete Grou Address Book:Print List

5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.

4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



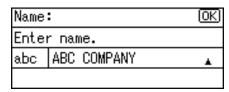
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



8. Press [Details].

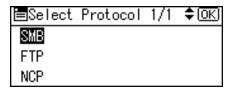


5

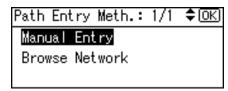
9. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.



10. Select [SMB] using [▲] or [▼], and then press the [OK] key.

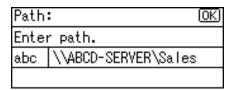


11. Select [Manual Entry] or [Browse Network] using [▲] or [▼], and then press the [OK] key.

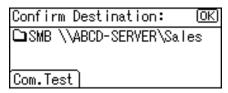


To specify a folder, you can either enter the path manually or locate the folder by browsing the network. See "Locating the folder manually" and "Locating the folder using Browse Network".

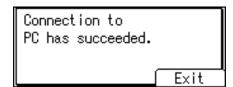
12. Specify the folder.



13. Press [Com.Test] to check the path is set correctly.



14. Press [Exit].



16. Press [End].



- 17. Press the [OK] key.
- 18. Press the [User Tools/Counter] key.



• To change the name, see "Registering Names".

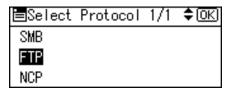
■ Reference

• p.230 "Registering Names"

Changing the protocol

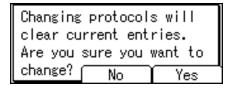
This section describes how to change the protocol.

1. Select [FTP] or [NCP] using [▲] or [▼], and then press the [OK] key.



A confirmation message appears.

2. Press [Yes].



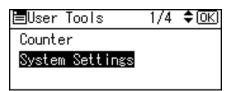
3. Enter each item again.

-

Deleting an SMB Folder

This section describes how to delete the registered SMB folder.

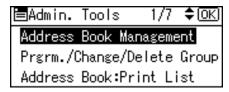
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



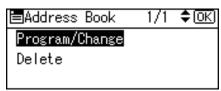
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



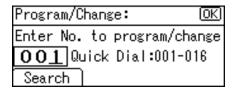
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

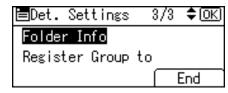
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

| Name | : | (<u>0K</u>) |
|------|-------------|---------------|
| Ente | r name. | |
| abc | ABC COMPANY | |
| | | |

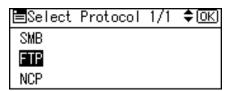
8. Press [Details].



9. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.

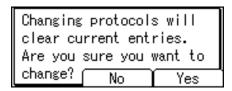


Select the protocol which is not currently selected using [▲] or [▼], and then press the [OK] key.



A confirmation message appears.

11. Press [Yes].



12. Press the [Escape] key twice.

| Server Name: | <u>(0K)</u> |
|--------------------|-------------|
| Enter server name. | |
| abc _ | |
| | |

5

13. Press [End].



- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



• To delete the name, see "Registering Names".



• p.230 "Registering Names"

Registering an FTP Folder

This section describes how to register an FTP folder.

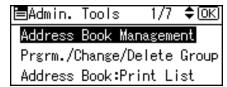
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.

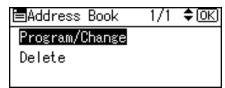


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

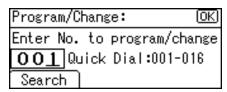


Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.





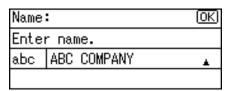
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



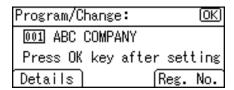
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

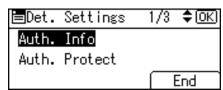
7. Press the [OK] key.



8. Press [Details].



9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



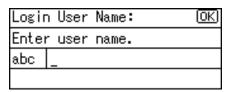
10. Select [Folder Authentication] using [▲] or [▼], and then press the [OK] key.



11. Select [Specify Other Auth. Info] using [▲] or [▼], and then press [User].



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



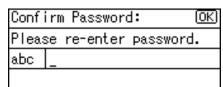
13. Press [Password].



14. Enter the password, and then press the [OK] key.

| Login | n Password: | (OK) |
|-------|-------------|------|
| Ente | r password. | |
| abc | | · |
| | | |

15. Enter the password again to confirm, and then press the [OK] key.





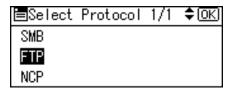
17. Press the [Escape] key.



18. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.



19. Select [FTP] using [▲] or [▼], and then press the [OK] key.

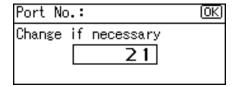


20. Enter the server name, and then press the [OK] key.

| Server Name: | | <u>(0K)</u> |
|--------------|--------------|-------------|
| Enter | server name. | |
| abc | - | |
| | | |

21. If you want to change the port number, enter the new port number, and then press the [OK] key.

Otherwise, just press the [OK] key.



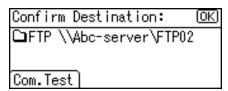
You can enter 1 to 65535.

22. Enter the path, and then press the [OK] key.

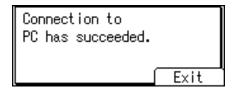
| Path: | | (<u>0K</u>) |
|-------|-------|---------------|
| Enter | path. | |
| abc _ | | |
| | | |

You can also enter an IPv4 address.

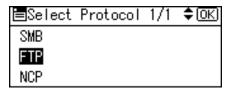
23. Press [Com.Test] to check the path is set correctly.



24. Press [Exit].



25. Press the [Escape] key.



26. Press [End].



- 27. Press the [OK] key.
- 28. Press the [User Tools/Counter] key.



- To register the name, see "Registering Names".
- You can enter up to 64 characters for the user name.
- You can enter up to 64 characters for the password.
- You can enter a server name using up to 64 characters.

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- You can enter a path using up to 128 characters.
- You can enter an absolute path, using this format: "/user/ home/username"; or a relative path, using this format: directory/sub-directory".
- If you leave the path blank, the login directory is assumed to be the current working directory.
- When [Do not Specify] is selected in step 11, the FTP User Name and FTP Password that you have specified in Default User Name/Password (Send) of File Transfer settings applies. For details, see "File Transfer".
- If the connection test fails, check the settings, and then try again.
- If User Authentication is specified, contact your administrator.

■ Reference

- p.36 "File Transfer"
- p.230 "Registering Names"

Changing an FTP Folder

This section describes how to change the registered FTP folder.

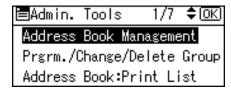
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



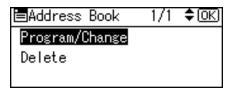
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



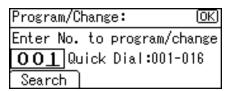
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



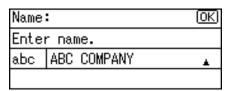
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



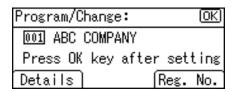
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

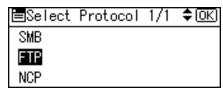


8. Press [Details].



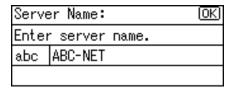
9. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.





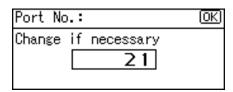
11. To change the server name, enter the new server name, and then press the [OK] key.

Otherwise, just press the [OK] key.



12. To change the port number, enter the new port number, and then press the [OK] key.

Otherwise, just press the [OK] key.



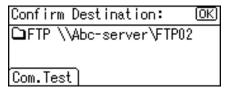
13. To change the path, enter the new path, and then press the [OK] key.

Path: OK

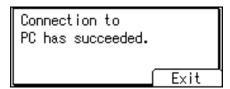
Enter path.
abc \\Abcd-server\FTP

Otherwise, just press the [OK] key.

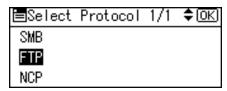
14. Press [Com.Test] to check the path is set correctly.



15. Press [Exit].



16. Press the [Escape] key.



17. When you have finished making changes, press [End].



- 18. Press the [OK] key.
- 19. Press the [User Tools/Counter] key.



• To change the name, see "Registering Names".

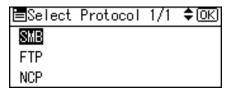
■ Reference

• p.230 "Registering Names"

Changing the protocol

This section describes how to change the protocol.

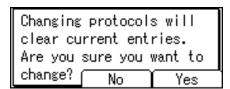
1. Select [SMB] or [NCP] using [▲] or [▼], and then press the [OK] key.



A confirmation message appears.

2. Press [Yes].

Changing the protocol will clear all settings made under the previous protocol.

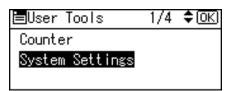


3. Enter each item again.

Deleting an FTP Folder

This section describes how to delete the registered FTP folder.

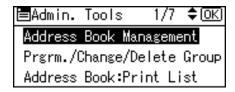
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



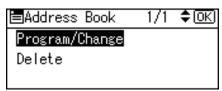
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



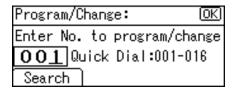
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



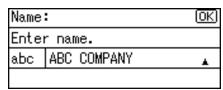
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



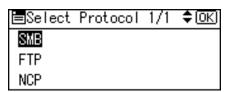
8. Press [Details].



9. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.

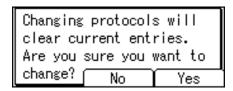


Select the protocol which is not currently selected using [▲] or [▼], and then press the [OK] key.

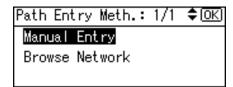


A confirmation message appears.

11. Press [Yes].



12. Press the [Escape] key twice.





- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



• To delete a name entirely, see "Registering Names".



• p.230 "Registering Names"

Registering an NCP Folder

This section describes how to register an NCP folder.

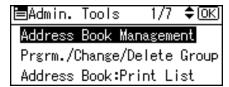
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



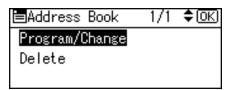
3. Select [Administrator Tools] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



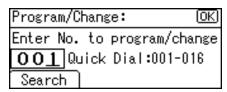
Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



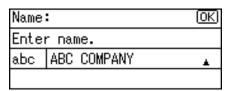
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



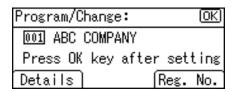
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

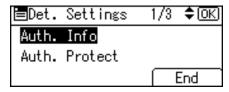
7. Press the [OK] key.



8. Press [Details].



9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.

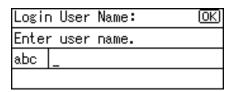




11. Select [Specify Other Auth. Info] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press [User].



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



13. Press [Password].



14. Enter the password, and then press the [OK] key.

| Logir | n Password: | OK) |
|-------|-------------|-----|
| Ente | r password. | |
| abc | | |
| | | |

15. Enter the password again to confirm, and then press the [OK] key.

| Conf | irm Password: (| 0K) |
|-------|-----------------------|-----|
| Pleas | se re-enter password. | |
| abc | _ | |
| | | |

16. Press the [OK] key.



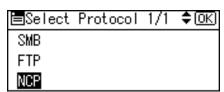
17. Press the [Escape] key.



18. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.

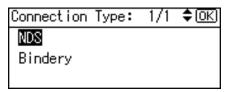


19. Select [NCP] using [▲] or [▼], and then press the [OK] key.

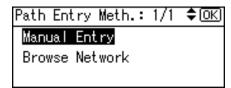


20. Select the connection type using [▲] or [▼], and then press the [OK] key.

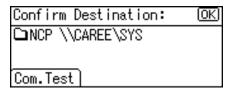
If you want to specify a folder in an NDS tree, press [NDS]. If you want to specify a folder on a NetWare server, press [Bindery].



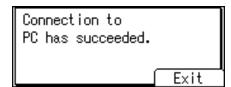
21. Select Manual Entry or Browse Network to specify the path entry method using [▲] or [▼], and then press the [OK] key.



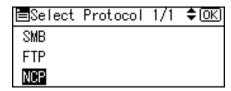
22. Press [Com.Test] to check the path is set correctly.



23. Press [Exit].



24. Press the [Escape] key.



25. Press [End].



- 26. Press the [OK] key.
- 27. Press the [User Tools/Counter] key.



- To register the name, see "Registering Names".
- You can enter up to 64 characters for the user name.
- If you select [NDS] for the connection type, after the user name, enter the context name where the user object resides. If the user name is "user" and the context name is "context", the user name you would enter is "user.context".
- You can enter up to 64 characters for the password.
- To specify a folder, you can either enter the path manually or locate the folder by browsing the network.

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- When [Do not Specify] is selected, the NCP User Name and NCP Password that you have specified
 in Default User Name/Password (Send) of File Transfer settings applies.
- If User Authentication is specified, contact your administrator.

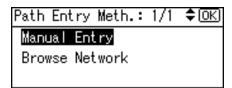
Reference

- p.36 "File Transfer"
- p.230 "Registering Names"

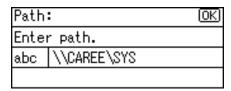
Locating the NCP folder manually

This section describes how to locate the SMB folder manually.

1. Select [Manual Entry] using [▲] or [▼], and then press the [OK] key.



2. Enter the path and then press the [OK] key.



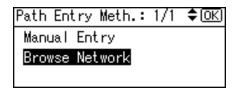


- If you set "Connection Type" to [NDS], and if the NDS tree name is "tree", the name of the context
 including the volume is "context", the volume name is "volume" and the folder name is "folder", then
 the path will be "\\tree\volume. context\folder".
- If you set "Connection Type" to [Bindery], and if the NetWare server name is "server", the volume name is "volume" and the folder name is "folder", then the path will be "\\server\volume\folder".
- You can enter a path using up to 256 characters.
- If the connection test fails, check the settings, and then try again.

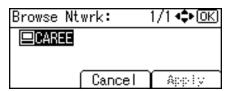
Locating the NCP folder using browse network

This section describes how to locate the NCP folder using Browse Network.

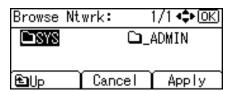
1. Select [Browse Network] using [▲] or [▼], and then press the [OK] key.



2. If you have set "Connection Type" to [NDS], a list of items in the NDS tree appears. If you have set "Connection Type" to [Bindery], a list of items on the NetWare server appears.

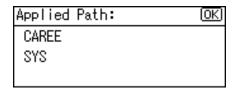


3. Search for the destination folder in the NDS tree or NetWare server, and then press [Apply].



You can press [Up] to switch between levels.

4. Press the [OK] key.





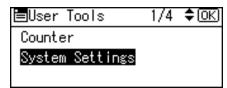
- Only the folders you are allowed to access appear in [Browse Network].
- If the languages used on the machine and the destination you want to view differ, the items in the list may not appear correctly.
- Up to 100 items can be displayed in the list.

Changing an NCP Folder

This section describes how to change the registered NCP folder.

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

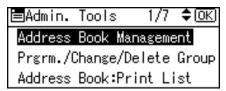
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



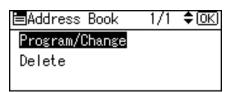
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



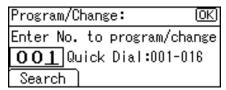
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

| Name | : | <u>(0K)</u> |
|------|-------------|-------------|
| Ente | r name. | |
| abc | ABC COMPANY | |
| | | |

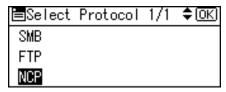
8. Press [Details].



9. Select [Folder Info] using [▲] or [▼], and then press the [OK] key.

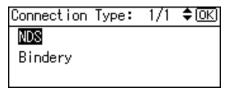


10. Select [NCP] using [▲] or [▼], and then press the [OK] key.

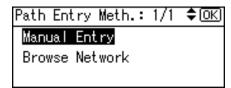


11. Select the connection type using [▲] or [▼], and then press the [OK] key.

If you want to specify a folder in an NDS tree, press [NDS]. If you want to specify a folder on a NetWare server, press [Bindery].

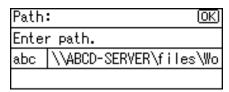


Select [Manual Entry] or [Browse Network] to specify the path entry method using [▲] or [▼], and then press the [OK] key.



To specify a folder, you can either enter the path manually or locate the folder by browsing the network. See "Locating the folder manually" and "Locating the folder using Browse Network".

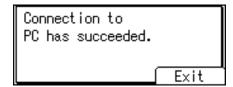
13. Specify the folder.



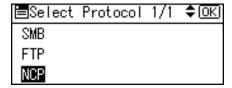
14. Press [Com.Test] to check the path is set correctly.



15. Press [Exit].



16. Press the [Escape] key.



17. Press [End].



- 18. Press the [OK] key.
- 19. Press the [User Tools/Counter] key.



• To change the name, see "Registering Names".

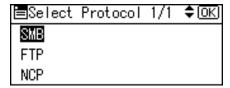
■ Reference

• p.230 "Registering Names"

Changing the protocol

This section describes how to change the protocol.

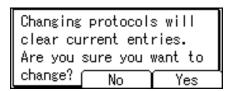
1. Select [SMB] or [FTP] using [▲] or [▼], and then press the [OK] key.



A confirmation message appears.

2. Press [Yes].

Changing the protocol will clear all settings made under the previous protocol.

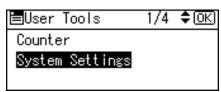


3. Enter each item again.

Deleting an NCP Folder

This section describes how to delete the registered NCP folder.

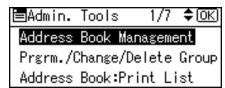
- 1. Press the [User Tools/Counter] key
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



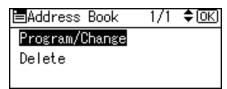
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



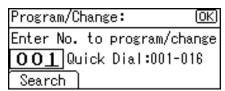
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



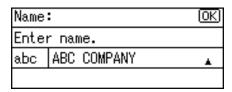
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

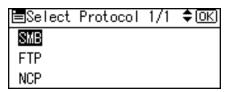


8. Press [Details].



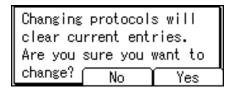


Select the protocol which is not currently selected using [▲] or [▼], and then press the [OK] key.

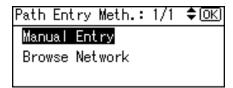


A confirmation message appears.

11. Press [Yes].



12. Press the [Escape] key twice.



13. Press [End].



- 14. Press the [OK] key.
- 15. Press the [User Tools/Counter] key.



• To delete a name entirely, see "Registering Names".



• p.230 "Registering Names"

5

Registering Names to a Group

This section describes how to register names to a group.

You can register names to a group to enable easy management of e-mail addresses and folders for each group.

To add names to a group, the groups must be registered beforehand.



- When using Scan to Folder function, you cannot send scan files to a group with over 10 folders registered.
- The maximum number of destinations registerable to a group is 100.



You can set a protection code to prevent unauthorized access to the folders registered in a group.
 For details, see "Registering a Protection Code".

■ Reference

• p.230 "Registering Names"

Registering a Group

This section describes how to register a group.

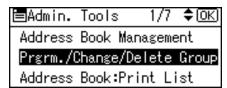
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



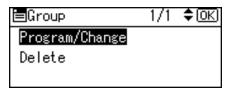
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



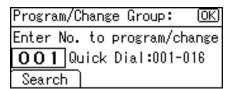
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.

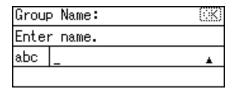


6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

7. Enter the group name, and then press the [OK] key.



8. Press the [OK] key.



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

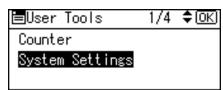
Registering Names to a Group

This section describes how to register names to a registered group.

You can put names that have been registered in the Address Book into a group.

When registering new names, you can also register groups at the same time.

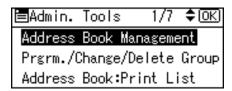
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



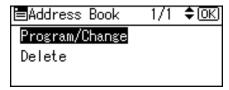
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



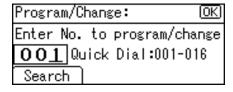
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

8. Press [Details].



9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.



10. Select the group name to which you want to register using [▶], and then press the [OK] key.



11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.

Adding a Group to Another Group

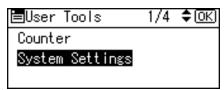
This section describes how to add a group to another group.

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

5

5

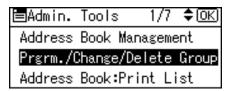
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



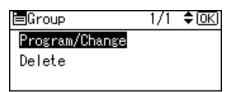
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



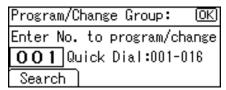
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



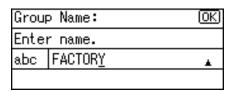
6. Enter the registration number of the group that you want to put into another group using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, or registration number.

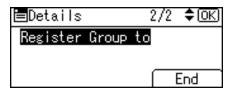
7. Press the [OK] key.



8. Press [Details].



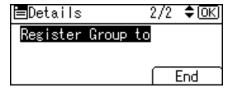
9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.



Select the group name to which you want to register using [▲] or [▼], and then press the [OK] key.



11. Press [End].



12. Press the [OK] key.



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

Displaying Names Registered in a Group

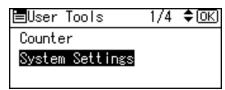
This section describes how to display names registered in a group.

You can check the names or groups registered in each group.

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

5

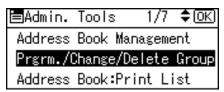
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



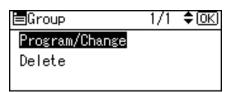
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



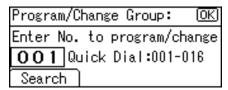
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



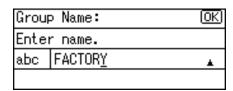
6. Enter the registration number you want to display using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

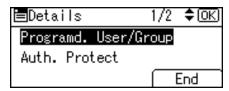
Press [Search] to search by name, destination list, or registration number.

7. Press the [OK] key.





Select [Programd. User/Group] using [▲] or [▼], and then press the [OK] key.



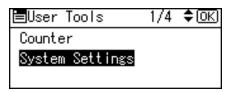
All the user (destination) names in the specified group appear.

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

Removing a Name from a Group

This section describes how to remove a name from a group.

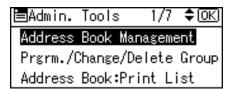
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



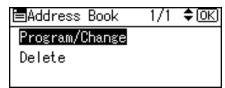
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



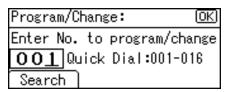
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



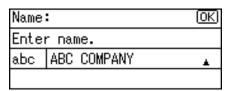
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



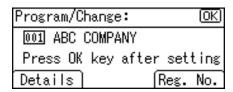
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.



8. Press [Details].



9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.





11. Press [End].



- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.

Deleting a Group within Another Group

This section describes how to delete a group within another group.

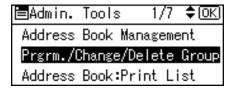
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



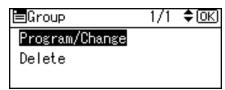
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



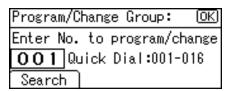
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



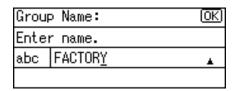
6. Enter the registration number of the group that you want to delete from using the number keys or the Quick Dial keys, and then press the [OK] key.



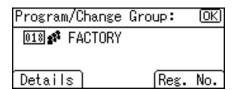
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, or registration number.

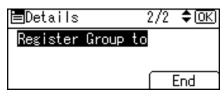
7. Press the [OK] key.

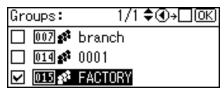


8. Press [Details].

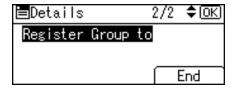


9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.





11. Press [End].

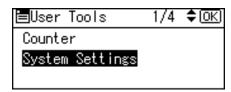


- 12. Press the [OK] key.
- 13. Press the [User Tools/Counter] key.

Changing a Group Name

This section describes how to change a group name.

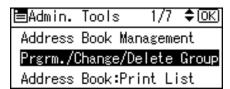
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



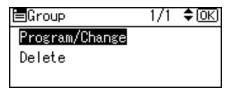
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



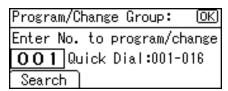
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



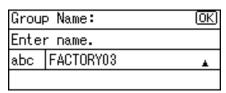
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



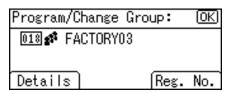
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, or registration number.

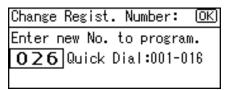
7. Enter the new group name using the number keys and the Quick Dial keys, and then press the [OK] key.



8. To change the registration number, press [Reg. No.].



9. Enter the new registration number using the number keys or the Quick Dial keys, and then press the [OK] key.



- 10. Press the [OK] key.
- 11. Press the [User Tools/Counter] key.

5

Deleting a Group

This section describes how to delete a group.

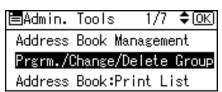
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



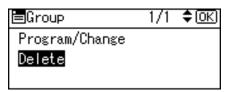
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



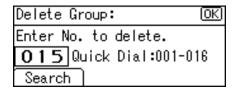
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Delete] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



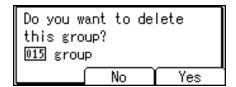
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, or registration number.

7. Press [Yes].



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

Registering a Protection Code

This section describes how to register a Protection Code.

You can stop sender's names or folders being accessed by setting a protection code.

You can use this function to protect the following:

Folders

You can prevent unauthorized access to folders.

Sender's names

You can prevent misuse of sender's names.

Registering a Protection Code to a Single User

This section describes how to register a Protection code to a single user.

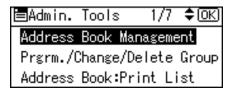
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



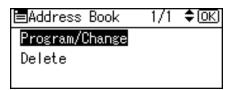
Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



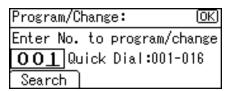
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



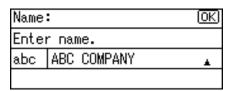
6. Enter the registration number you want to protect using the number keys or the Quick Dial keys, and then press the [OK] key.



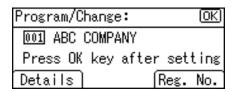
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

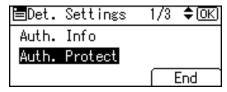
7. Press the [OK] key.

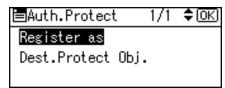


8. Press [Details].

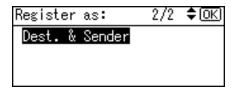


9. Select [Auth. Protect] using [▲] or [▼], and then press the [OK] key.

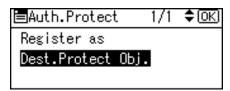




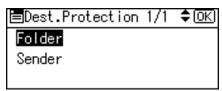
Select [Destination Only], [Sender Only] or [Dest. & Sender] using [♠] or [♥], and then press
the [OK] key.



12. Select [Dest.Protect Obj.] using [▲] or [▼], and then press the [OK] key.



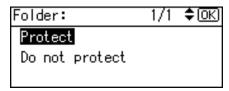
13. Select [Folder] or [Sender] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



If you select [Destination Only] in [Register as], only [Folder] can be selected.

If you select [Sender Only] in [Register as], only [Sender] can be selected.

14. Select [Protect] or [Do not protect] using [▲] or [▼], and then press the [OK] key.

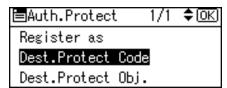


[Protect] or [Do not protect] can be selected for both [Folder] and [Sender] at the same time.

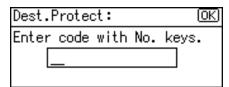
15. Press the [Escape] key.

E

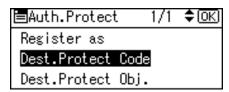
16. Select [Dest.Protect Code] using [▲] or [▼], and then press the [OK] key.



17. Enter a protection code using the number keys, and then press the [OK] key.



18. Press the [Escape] key.



19. Press [End].



- 20. Press the [OK] key.
- 21. Press the [User Tools/Counter] key.

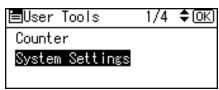


• Specify a protection code of up to eight digits. You can also specify "Protection" without specifying a protection code.

Registering a Protection Code to a Group User

This section describes how to register a Protection Code to a Group User.

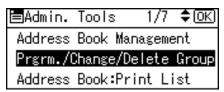
1. Press the [User Tools/Counter] key.



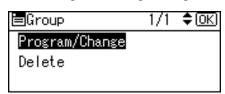
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



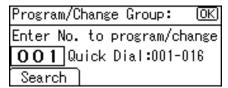
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



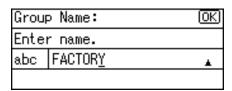
6. Enter the registration number of group you want to protect using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to search by name, destination list, or registration number.

7. Press the [OK] key.

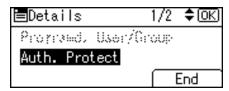


5

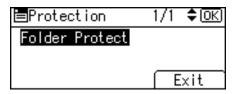
8. Press [Details].



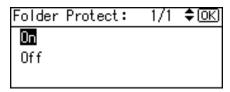
9. Select [Auth. Protect] using [▲] or [▼], and then press the [OK] key.



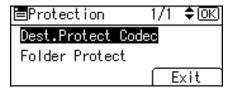
10. Select [Folder Protect] using [▲] or [▼], and then press the [OK] key.



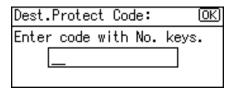
11. Select [On] using [▲] or [▼], and then press the [OK] key.

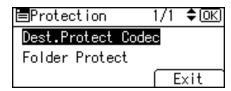


12. Select [Dest.Protect Code] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.

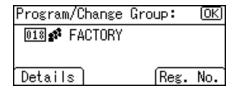


13. Enter a protection code using the number keys, and then press the [OK] key.





15. Press the [OK] key.



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



• Specify a protection code of up to eight digits. You can also specify "Protection" without specifying a protection code.

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Registering SMTP and LDAP Authentication

This section describes how to register SMTP and LDAP Authentication.

SMTP Authentication

This section describes how to register SMTP Authentication.

For each user registered in the Address Book, you can register a login user name and login password to be used when accessing an SMTP server.

To use an SMTP server, you need to program it beforehand.



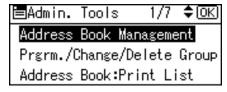
- When [Do not Specify] is selected for SMTP Authentication the User Name and Password that you
 have specified in SMTP Authentication of File Transfer settings applies. For details, see "File Transfer".
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



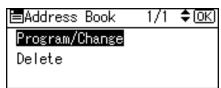
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



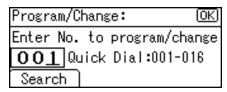
Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



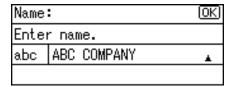
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



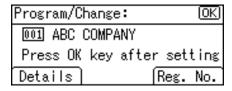
You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

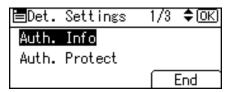
7. Press the [OK] key.



8. Press [Details].



9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.

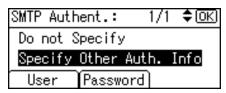


10. Select [SMTP Authentication] using [▲] or [▼], and then press the [OK] key.

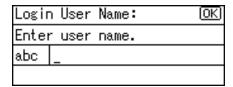


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11. Select [Specify Other Auth. Info] using [▲] or [▼], and then press [User].



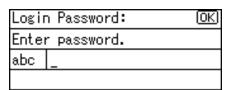
12. Enter the login user name, and then press the [OK] key.



13. Press [Password].



14. Enter the password, and then press the [OK] key.



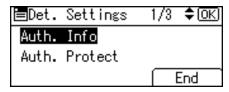
15. Enter the password again to confirm, and then press the [OK] key.

| Conf | irm Password: 🖸 |)K) |
|-------|-----------------------|-----|
| Pleas | se re-enter password. | |
| abc | _ | |
| | | |

16. Press the [Escape] key.



17. Press the [Escape] key.



- 19. Press the [OK] key.
- 20. Press the [User Tools/Counter] key.



- To register the name, see "Registering Names".
- You can enter up to 191 characters for the user name.
- When using POP before SMTP Authentication, you can enter up to 63 characters.
- You can enter up to 128 characters for the password.
- To change the SMTP Authentication settings, repeat step 3 to 18.

Reference

- p.36 "File Transfer"
- p.230 "Registering Names"

LDAP Authentication

This section describes how to register LDAP Authentication.

For each user registered in the Address Book, you can register a login user name and login password to be used when accessing an LDAP server.

To use an LDAP server, you need to program it beforehand. For details, see "Programming the LDAP server".



- When [Do not Specify] is selected for LDAP Authentication, the User Name and Password that you
 have specified in Program/Change LDAP Server of Administrator Tools settings applies. For details,
 see "Programming the LDAP server".
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.

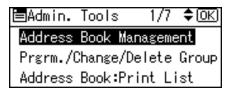


5

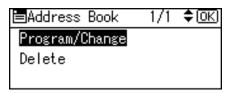
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



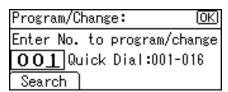
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 016 by pressing the Quick Dial key.

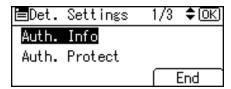
Press [Search] to specify by name, destination list, registration number, user code, fax number, e-mail address, or folder destination.

7. Press the [OK] key.

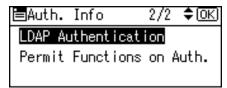




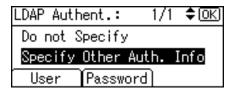
9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



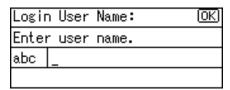
10. Select [LDAP Authentication] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



11. Select [Specify Other Auth. Info] using [▲] or [▼], and then press [User].



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



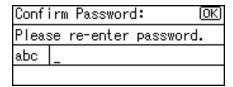
13. Press [Password].



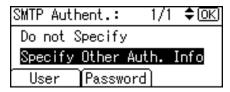
14. Enter the password, and then press the [OK] key.

| Login Password: | (OK) |
|-----------------|------|
| Enter password. | |
| abc _ | |
| | |

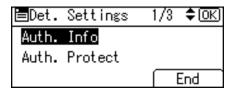
15. Enter the password again to confirm, and then press the [OK] key.



16. Press the [Escape] key.



- 17. Press the [Escape] key.
- 18. Press [End].



- 19. Press the [OK] key.
- 20. Press the [User Tools/Counter] key.



- To register the name, see "Registering Names".
- You can enter up to 128 characters for the user name.
- You can enter up to 128 characters for the password.
- To change the LDAP Authentication settings, repeat step 3 to 19.

■ Reference

- p.46 "Programming the LDAP server"
- p.230 "Registering Names"

Searching

This section describes explains how to search for a user name or destination registration registered in the address book.

You can search for the user information stored in [Address Book Management] under [Administrator Tools] in [System Settings] by displaying a list. Alternatively, you can search by name, registration number, user code, or fax number.

For details, about accessing Address Book Management, see "Registering Names".

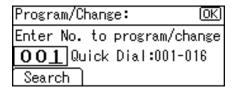


• p.230 "Registering Names"

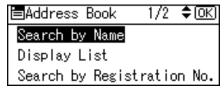
Searching by Name

Search the address book using a destination or user name.

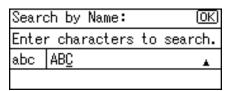
1. Press [Search].



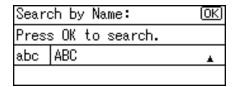
Select [Search by Name] using [▲] or [▼], and then press the [OK] key.



3. Enter the name you want to search for, and then press the [OK] key. You can also search by entering part of the name.

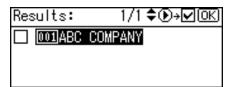


4. Press the [OK] key.



The search results appear.

Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



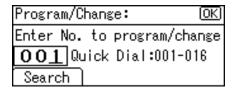


• For details about entering text, see "Entering Text", About This Machine.

Searching from the Display List

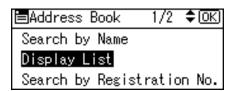
Search the address book by displaying a list of registered user names and destinations.

1. Press [Search].



2. Select [Display List] using [▲] or [▼], and then press the [OK] key.

The list of registered user names or destination names appears.





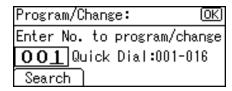


• For details about entering text, see "Entering Text", About This Machine.

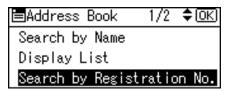
Searching by Registration Number

Search the address book using the registration number of a user destination.

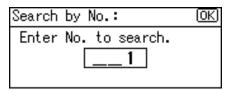
1. Press [Search].



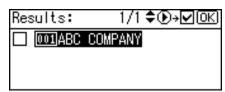
2. Select [Search by Registration No.] using [▲] or [▼], and then press the [OK] key.



3. Enter the registration number you want to search using the number keys, and then press the [OK] key.



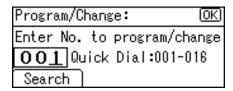
Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



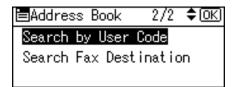
Searching by User Code

Search the address book using the registered user codes.

1. Press [Search].

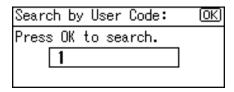


Select [Search by User Code] using [▲] or [▼], and then press the [OK] key.

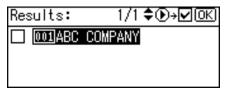


- 3. Enter the user code you want to search using the number keys, and then press the [OK] key.
- 4. Press the [OK] key.

The search results appear.

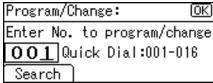


Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.

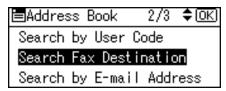


Searching by Fax Number

Search the address book using the registered fax numbers.

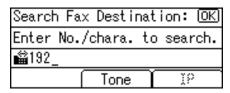


2. Select [Search Fax Destination] using [▲] or [▼], and then press the [OK] key.

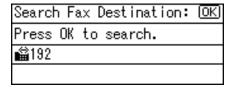


3. Enter the fax number you want to search using the number keys, and then press the [OK] key.

To search by IP-Fax number, press [IP], enter the IP-Fax number, and then press the [OK] key.

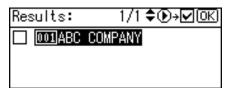


4. Press the [OK] key.



The search results appear.

5. Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.

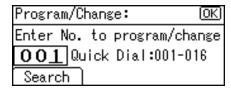


Searching by E-mail Address

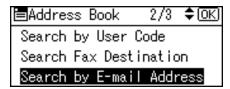
Search the address book using registered e-mail addresses.

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1. Press [Search].

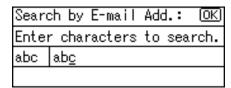


2. Select [Search by E-mail Address] using [▲] or [▼], and then press the [OK] key.



3. Enter the e-mail address you want to search for, and then press the [OK] key.

You can also search by entering part of the e-mail address.

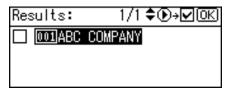


4. Press the [OK] key.

| Sear | ch by E-mail Add.: | (OK) | | |
|---------------------|--------------------|------|--|--|
| Press OK to search. | | | | |
| abc | abc | | | |
| | | | | |

The search results appear.

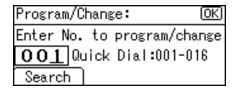
Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



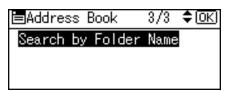
Searching by Destination Folder Name

Search the address book using destination folder names.

1. Press [Search].

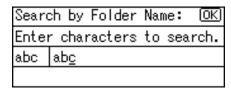


2. Select [Search by Folder Name] using [▲] or [▼], and then press the [OK] key.



3. Enter the destination folder name, and then press the [OK] key.

You can also search by entering part of the destination folder name.

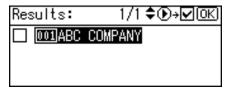


4. Press the [OK] key.

| Sear | ch by Folder Name: | (OK) | |
|---------------------|--------------------|------|--|
| Press OK to search. | | | |
| abc | abc | | |
| | | | |

The search results appear.

Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



6. Special Operations under Windows

This chapter describes how to print files directly from Windows.

Printing Files Directly from Windows

You can print files directly using Windows commands. For example, you can print PostScript files for PostScript 3.

Windows 2000/XP, Windows Server 2003/2003 R2

You can print files directly using lpr, rcp ftp or sftp command.

Windows Vista, Windows Server 2008

You can print files directly using lpr, ftp or sftp 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.
- To print under Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, install "Printing service for UNIX" as the network application.

■ Reference

• p.363 "Using DHCP"

Using a Host Name Instead of an IPv4 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 IPv4 address of a printer using DHCP

Use the printer name on the configuration page as the host name.

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.

1. Open the hosts file using memo pad files, for instance.

The hosts file is in the following folder:

\WINNT\SYSTEM32\DRIVERS\ETC\HOSTS

"\WINNT" is the directory of the installation destination for Windows 2000/XP, and Windows Server 2003/2003 R2/2008.

2. Add an IPv4 or IPv6address and host name to the hosts file using the following format:

192.168.15.16 host # NP

"192.168.15.16" is the IPv4 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.

2001:DB::100 host # NP

"2001:DB::100" is the IPv6 address, "host" is the printer's host name, and "#NP" is replaced by comments. Insert a space or tab between "2001:DB::100" and "host", between "host" and "#NP" respectively, using one line for this format.

3. Save the file.



 When using a host name under Windows Server 2003/2003 R2/2008, or Windows Vista with IPv6 protocol, perform host name resolution using an external DNS server. The host file cannot be used.

Printing Commands

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

Enter commands using the command prompt window. The location of the command prompts varies depending on operating systems:

Windows 2000

[Start] - [Programs] - [Accessories] - [Command Prompt]

• Windows XP/Vista, Windows Server 2003/2003 R2/2008

[Start] - [All Programs] - [Accessories] - [Command Prompt]

O

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
 - sftp: 3
- Enter the file name in a format including the path from the directory executing commands.

lpr

When specifying a printer by IP address

c:> lpr -Sprinter's IP address [-Poption] [-ol] \path name\file name

When using a host name instead of an IP address

c:> lpr -Sprinter's host name [-Poption] [-ol] \path 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

Printing from the virtual printer

c:> lpr -S "printer's IP address" -P[virtual printer name] [-ol] \path name\file
name

Reference

• For details about the virtual printer configuration, see "Using the Virtual Printer", Printer Reference.

rcp

First, register the printer's host name in the hosts file.

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

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

Printing from the virtual printer

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

Reference

• For details about the virtual printer configuration, see "Using the Virtual Printer", Printer Reference.

ftp / sftp

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

When one file is printed

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

Printing from the virtual printer

ftp> put \path name\file name [virtual printer name]

When multiple files are printed

ftp> mput \path name\file name [\path name\file name...] [option] Follow the procedure below to print using the "ftp" command.

1. 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.

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

User:

Password:

When user authentication is set, enter a login user name and password.

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

ftp> bin

When printing a binary file in ASCII mode, print may not come out correctly.

4. 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
```

5. Quit ftp.

ftp> bye

UNote

- "=", ",", "_", and ";" cannot be used for filenames. File names will be read as option strings.
- If you are using ftp, you cannot specify an option using the "mput" command.
- If you are using ftp, you cannot specify an option using the "pwd" command.
- If you are using sftp, you cannot specify an option using the "cd" command.
- If you are using sftp, you cannot specify an option using the "pwd" command.
- To use sftp, you must create an open key for ssh communication. Use Web Image Monitor to create an open key. For details, see Web Image Monitor help.
- If personal authentication (Basic, Windows, LDAP, or Integrated Server Authentication) is enabled, only authenticated users (users authenticated by login user name and password) can log on.
- 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.
- For details about login user name and password, see Security Reference, which is the administrator's manual.
- For details about the virtual printer configuration, see "Using the Virtual Printer", Printer Reference.

7. Appendix

When Using Windows Terminal Service/Citrix Presentation Server/Citrix XenApp

The following explains how to use Windows Terminal Service and Maintenance.

Operating Environment

The following operating systems and MetaFrame versions are supported.

Windows 2000 Server/Advanced Server

- Citrix Presentation Server 4.0
- Citrix XenApp 4.5

Windows server 2003/2003 R2

- Citrix Presentation Server 4.0
- Citrix XenApp 4.5

Supported Printer Drivers

When Windows Terminal Service is operating

PCL drivers

Limitations

The following limitations apply to the Windows Terminal Service environment.

These limitations are built in Windows Terminal Service or Citrix Presentation Server/Citrix XenApp.

Windows Terminal Service

In the Windows Terminal Service environment, some of the printer driver's functions are unavailable. In an environment where Windows Terminal Service is installed, some of the printer driver's functions are 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 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:

- 1. Use [Add/Remove Programs] in [Control Panel] to install SmartDeviceMonitor for Client.
- 2. Enter the following command in the MS-DOS command prompt:

CHANGE USER / INSTALL

To quit the install mode, enter the following command in the MS-DOS command prompt.

CHANGE USER /EXECUTE

Citrix Presentation Server/Citrix XenApp [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.

Citrix Presentation Server/Citrix XenApp [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.

- Printers that register the printer NetBIOS name on a WINS server must be configured for the WINS server
- Supported DHCP servers are Microsoft DHCP Server included with Windows 2000 Server, and Windows Server 2003/2003 R2, and Windows Server 2008, 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.
- DHCP servers can operate in an IPv6 environment, but they cannot be configured to allocate IPv6 addresses or obtain host names.

Using AutoNet

If the printer IPv4 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.



- The IP address assigned by the DHCP server is given priority over that selected by AutoNet.
- You can confirm the current IPv4 address on the configuration page.
- 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.

Configuring the WINS Server

This section explains configuring the WINS server.

The printer can be configured to register its NetBIOS name with a WINS server when the power is turned on. This enables the NetBIOS name of the printer to be specified from SmartDeviceMonitor for Admin even in a DHCP environment.



- The WINS server is supported with Windows 2000 Servers WINS Manager.
- For details about the WINS server settings, see Windows Help.
- If there is no reply from the WINS server, the NetBIOS name is registered by broadcast.
- The NetBIOS name can be entered using up to 13 alphanumeric characters.

Using Web Image Monitor

- 1. Start a Web browser.
- 2. Enter "http://(machine's IP address or host name) /" in the address bar to access the printer whose settings you want to change.

Top Page of Web Image Monitor appears.

3. Click [Login].

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

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

Contact your administrator for information about the settings.

- 5. In the left area, click [Configuration].
- 6. Click [IPv4] in the "Network" area.
- Check that [Active] is selected for [WINS] in the [Ethernet] or [Ethernet + Wireless LAN]
 column, and then enter the WINS server IPv4 address in [Primary WINS Server] and
 [Secondary WINS Server].
- 8. Click [OK].
- 9. Quit Web Image Monitor.



• p.117 "Using Web Image Monitor"

Using telnet

You can also use telnet to configure WINS.

Use the "wins" command to make the setting with telnet.



• p.156 "Remote Maintenance by telnet"

Using the Dynamic DNS Function

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

Updating

Updating procedure varies depending on whether the printer IP address is static or acquired by DHCP.



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

For a static IPv4 setting

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

Ethernet and IEEE 802.11
 RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)
 However, if CNAME (PRNXXXXXX) overlaps with the host name, CNAME will not be registered.

For DHCPv4 settings

As a substitute for the printer, the DHCP server updates the record, and one of the following occurs:

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

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

Ethernet and IEEE 802.11

RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)

For IPv6 settings

This machine updates the AAAA record and PTR record.

It also updates CNAME when the AAAA record is updated.

When a stateless address is newly set, it is automatically registered on the DNS server also.



- When the dynamic DNS function is not used, records managed by the DNS server must be updated manually, if the printer's IP address is changed.
- To update the record using the printer, the DNS server has to have one of the following:

- No security settings made.
- If security settings are made, an IP-specified client (this printer) permits updating.

DNS Servers Targeted for Operation

For static IP setting

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003/2003 R2/2008 features
- BIND 8.2.3 or higher

For DHCP setup, when the printer updates the A record

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003/2003 R2/2008 features
- BIND 8.2.3 or higher

For DHCP setup, when the DHCP server updates records

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003/2003 R2/2008 features
- BIND 8.2.3 or higher
- DNS servers with standard NetWare 5 (or a higher version) features

For IPv6 setting

- Microsoft DNS servers with standard Windows Server 2003/2003 R2/2008 features
- BIND 9.2.3 or higher

DHCP Servers Targeted for Operation

As a substitute for the printer, DHCP servers capable of updating the A record and PTR record are as follows:

- Microsoft DHCP servers with standard Windows 2000 Server (Service Pack 3 or higher versions)/ Windows Server 2003/2003 R2/2008 features
- ISC DHCP 3.0 or higher
- DHCP server with standard NetWare 5 features

Setting the Dynamic DNS Function

Make settings with telnet using the "dns" command.

- For details, see "Remote Maintenance by telnet".
- **■** Reference
 - p.156 "Remote Maintenance by telnet"

7

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.

■ Reference

- The MAC address of the filtering printer is printed on the printer configuration page.
- 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.



• For more information about selecting a frame type, see "Interface Settings".

Reference

• p.28 "Interface Settings"

Configuring the printer without NetWare

 When not printing, the network interface board sends packets over the network. Set NetWare to "inactive".



• For more information about selecting a protocol, see "Interface Settings".

Reference

• p.28 "Interface Settings"

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.

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 DeskTopBinder. In addition, set up connected devices using the I/O settings of the ScanRouter delivery software 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. Also, set the correct information for the connected devices using the I/O settings of the ScanRouter delivery software administration utility.



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, 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



• IPv6 cannot be used on this function.

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 2000/XP and Windows Server 2003/2003 R2/2008, clear the [Form feed] check box on the [NetWare Settings] tab in the printer properties dialog box.

Banner page

You should not configure a banner page on NetWare. If you want to change the banner page setting, always configure it using Windows.

• Under Windows 2000/XP and Windows Server 2003/2003 R2/2008, 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.

When the IEEE 802.11 Interface Unit is Installed

Please pay attention to the following when using the IEEE 802.11 interface on the network.

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 (1.6 to 2.4 inches) between the antennas, so that they do not touch.
- The exposure glass cover and the 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 microwaves, away from the machine and access point.



• For more information about access point radio wave conditions, refer to the access point manual.

1

Configuring IEEE 802.1X

IEEE 802.1X can be configured using Web Image Monitor's administrator mode. You can select four types of EAP authentication method: EAP-TLS, LEAP, EAP-TTLS and PEAP. Note that each EAP authentication method has different configuration settings and authentication procedures.

Types and requirements of certificates are as follows:

If a certificate is required, configure all settings after installing the certificate.

EAP Types Requiring a "Site Certificate"

EAP-TLS, EAP-TTLS, PEAP (Necessary except LEAP)

EAP Types Requiring a "Site Certificate" and a "Device Certificate"

EAP-TLS, PEAP (Phase 2 is for TLS only)

Important

- To set IEEE 802.1X, you must enable SSL. For details about setting SSL configuration, see "Protection Using Encryption", Security Reference.
- To set IEEE 802.1X, you must use Web Image Monitor.

Installing a Site Certificate

- 1. Access the authentication server and obtain the CA certificate.
 - Methods of obtaining certificates differ according to the operating system you are using.
- 2. Log on to Web Image Monitor in the administrator mode.
- 3. Click [Configuration].
- 4. [Site Certificate] in the "Security" area.
- 5. Click [Browse] on the "Site Certificate to Import" window, and then select the CA certificate you obtained.
- 6. Click [Import].
- 7. Check that the imported certificate's [Status] shows "Trustworthy".
 - If [Site Certificate Check] shows [Active], and the [Status] of the certificate shows [Untrustworthy], communication might not be possible.
- 8. Click [OK].
- 9. Click [Logout].
- 10. Quit the Web Image Monitor.

Installing Device Certificate

- 1. Log on to Web Image Monitor in the administrator mode.
- 2. Click [Configuration].
- 3. Click [Device Certificate] in "Security" area.
- 4. Click [Certificate 2] on the "Device Certificate" window, and then click [Request].
- Enter appropriate "Common Name" and "Country Code" on "Certificate Information" page, and then click [OK].
- 6. "Updating..." appears. Wait for about 2 minutes, and then click [OK].
- Click [Details], shown in the "Device Certificate" window as the memo pad icon for "Requesting".
- 8. Select all, and then copy the entire "Text for Requested Certificate" text that is displayed in the "Certificate Status" window.
- Access the certificate authority server, and then obtain the CA signified certificate using the text copied into "Text for Requested Certificate" windows.
 - Obtaining the certificate differs depending on the environment you want to use.
- 10. Click [Certificate 2] on "Device Certificate" window, and then click [Install].
- 11. Using a text editor, open the CA signified certificate downloaded in step 9, and then copy over all the text.
- 12. In the [Install Certificate] window, paste all the text copied into the CA signified certificate.
- 13. Click [OK].
- 14. "Updating..." appears. Wait for about one or two minutes, and then click [OK].
- 15. Check that the "Device Certificate" shows "Installed".
- 16. Click [Certificate 2] on "Certification", and then click [OK].
- 17. Click [Logout].
- 18. Quit Web Image Monitor.



- If you request two certificates simultaneously, the certificate authority might not display either certificate. Click [Cancel Request] to cancel the request.
- You can select [Certificate 1-4] in the "Device Certificate" window. Note that if you select [Certificate 1] in the "Device Certificate" window, you must select "Certificate 1" in the "IEEE 802.1X (WPA/WPA2)" drop down menu in the "Certification" window.
- Click [Cancel Request] to cancel the request for the server certificate.
- If "Not found" appears after clicking [OK] in steps 6 and 14, wait one or two minutes, and then click [Refresh].

Setting Items of IEEE 802.1X for Ethernet

- 1. Log on to Web Image Monitor in the administrator mode.
- 2. Click [Configuration].
- 3. Select [IEEE 802.1X (WPA/WPA2)] in "Security" area.
- 4. In "User Name", enter the user name set in the RADIUS server.
- 5. Enter the domain name in "Domain Name".
- 6. Select "EAP Type". Configurations differ according to the EAP Type.

FAP-TIS

- · Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server on "Server ID".

LEAP

• Click Change in "Password", and then enter the password set in the RADIUS server.

EAP-TTLS

- Click [Change] in "Password", and then enter the password set in the RADIUS server.
- Click [Change] in "Phase 2 User Name", and then enter the user name set in the RADIUS server.
- Select [CHAP], [MSCHAP], [MSCHAPv2], [PAP], or [MD5] in "Phase 2 Method".
- Certain methods might not be available, depending on the RADIUS server you want to use.
- · Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server in "Server ID".

PEAP

- Click [Change] in "Password", and then enter the password set in the RADIUS server.
- Click [Change] on "Phase 2 User Name", and then enter the user name set in the RADIUS server.
- Select [MSCHAPv2] or [TLS] in "Phase 2 Method".
- When you select [TLS], you must install "IEEE 802.1X Client Certificate".
- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server on "Server ID".

- 7. Click [OK].
- 8. Click [Configuration], and then click [Interface Settings] in the "Interface" area.
- 9. Select [Active] in "Ethernet Security".
- 10. Click [OK].
- 11. Click [Logout].
- 12. Quit the Web Image Monitor.



- If there is a problem with settings, you might not be able to communicate with the printer. To identify the problem, print a network summary.
- If you cannot identify the problem, reset the printer interface to normal, and then repeat the procedure from the beginning.

Setting Items of IEEE 802.1X for Wireless LAN

- 1. Log on to Web Image Monitor in the administrator mode.
- 2. Click [Configuration].
- 3. Select [IEEE 802.1X (WPA/WPA2)] in "Security" area.
- 4. In "User Name", enter the user name set in the RADIUS server.
- 5. Enter the domain name in "Domain Name".
- 6. Select "EAP Type". Configurations differ according to the EAP Type.

EAP-TLS

- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server on "Server ID".

LEAP

• Click Change in "Password", and then enter the password set in the RADIUS server.

EAP-TTLS

- Click [Change] in "Password", and then enter the password set in the RADIUS server.
- Click [Change] in "Phase 2 User Name", and then enter the user name set in the RADIUS server.
- Select [CHAP], [MSCHAP], [MSCHAPv2], [PAP], or [MD5] in "Phase 2 Method".
- Certain methods might not be available, depending on the RADIUS server you want to use.
- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".

- Select [On] or [Off] in "Trust Intermediate Certificate Authority".
- Enter the host name of the RADIUS server in "Server ID".

PEAP

- Click [Change] in "Password", and then enter the password set in the RADIUS server.
- Click [Change] on "Phase 2 User Name", and then enter the user name set in the RADIUS server.
- Select [MSCHAPv2] or [TLS] in "Phase 2 Method".
- When you select [TLS], you must install "IEEE 802.1X Client Certificate".
- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server on "Server ID".
- 7. Click [OK].
- 8. Click [Configuration], and then click [Wireless LAN Settings] in the "Interface" area.
- 9. Select [Wireless LAN] in "LAN Type".
- 10. Select [Infrastructure Mode] in "Communication Mode".
- 11. Enter the alphanumeric characters (a-z, A-Z, or 0-9) in [SSID] according to the access point you want to use.
- 12. Select [WPA] in "Security Method".
- Select [TKIP] or [CCMP (AES)] in "WPA Encryption Method" according to the access point you want to use.
- 14. Select [WPA] or [WPA2] in "WPA Authentication Method".
- 15. Click [OK].
- 16. Click [Logout].
- 17. Quit the Web Image Monitor.



- If there is a problem with settings, you might not be able to communicate with the printer. To identify
 the problem, print a network summary.
- If you cannot identify the problem, reset the printer interface to normal, and then repeat the procedure from the beginning.

Specifications

| Interface | 1000BASE-T, 100BASE-TX, 10BASE-T, IEEE 802.11 a/b/g | |
|-------------------|--|--|
| Frame type | Ethernet II, IEEE 802.2, IEEE 802.3, SNAP | |
| Printer (LAN-Fax) | TCP/IP (IPv4/IPv6) | |
| | LPR | |
| | RSH | |
| | RCP | |
| | DIPRINT | |
| | FTP | |
| | IPP | |
| | IPP-SSL | |
| | RHPP | |
| | IPX/SPX (NetWare) | |
| | AppleTalk | |
| | SMB | |
| | WSD (Printer) | |
| Internet Fax | TCP/IP (IPv4/IPv6) | |
| | SMTP | |
| | SMTP-C | |
| | POP3 | |
| | IMAP4 | |
| Network Scanner | IPv4 | |
| | FTP | |
| | FTP-C | |

| | SMTP |
|---------------------|--------------------|
| | SMTP-C |
| | POP3 |
| | SMB |
| | NCP |
| | WSD (Scanner) |
| Management Function | TCP/IP (IPv4/IPv6) |
| | RSH |
| | RCP |
| | FTP |
| | FTP-C |
| | SNMP |
| | SNMP-C |
| | НТТР |
| | HTTPS |
| | TELNET (mshell) |
| | NBT |
| | DHCP |
| | DNS |
| | DNS-C |
| | LDAP |

To use IPP and SMB, use the SmartDeviceMonitor for Client port.

To use IPP under Windows XP/Vista, Windows Server 2003/2003 R2/2008, use the Standard IPP port.

To use IPP under Windows 2000, use SmartDeviceMonitor for Client.

AppleTalk can be used when the PostScript 3 module is installed.

Under Windows Vista, or Windows Server 2008, WSD (Printer), WSD (Scanner), uses the WSD Port.

Only the rsh/rcp commands in Unix OS standard command set are supported.

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