

MP C2030/C2530 MP C2030/C2530 Aficio™ MP C2030/C2530

Operating Instructions Network and System Settings Guide



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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.

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- 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, 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 and Scanner Reference

Explains functions and operations for the machine's printer and scanner unit.

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.

Other manuals

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



- Manuals provided are specific to machine types.
- 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 supplier recommends that you use genuine toner from the supplier.

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

How to Read This Manual

Symbols

This manual uses the following symbols:

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.

UNote

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.

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 metric version.

Colours on colour keys or the colour circle may differ slightly from the colours of actual copies.

The colour samples in this manual may differ slightly from the colours of actual copies.

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.

Names of Major Options

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

Auto document feeder \rightarrow ADF

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

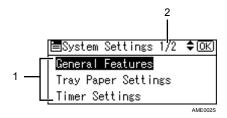
The display panel shows machine status, error messages, and function menus.



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 appears, and then press [System Settings].

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



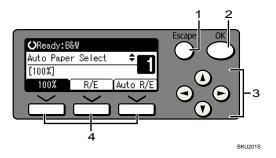
- The settings menu appears. Press the [▲] or [▼] key to scroll to the setting you want to specify or change, and then press the [OK] key to display the screen for specifying that setting.
- 2. The number of pages in the displayed settings menu appears. If you cannot see the entire menu, press the [▲]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

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

2. [OK] key

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

3. 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.

4. Selection keys

Correspond to items at the bottom line on the display.

Example: The Copy display

- When the instruction "press [100%]" appears in this manual, press the left selection key.
- When the instruction "press [R/E]" appears in this manual, press the centre selection key.
- When the instruction "press [Auto R/E]" appears in this manual, press the right selection key.

Accessing User Tools

This section describes how to access User Tools menu.

User Tools allow you to change or set defaults.



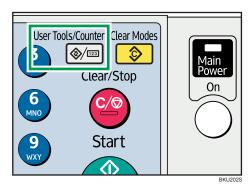
- Operations for system settings differ from normal operations. Always quit User Tools when you have finished.
- Any changes you make with User Tools remain in effect even if the main power switch or operation switch is turned off, or the [Clear Modes] key is pressed.

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".
- For details about specifying other settings such as adjusting gradation, see "Auto colour Calibration", Troubleshooting.

- For details about specifying other settings such as adjusting colour registration, see "Adjusting the colour Registration", Troubleshooting.
- For details about specifying other settings such as setting plain paper, see "Changing Paper Thickness Settings", About This Machine.
- For details about specifying other settings such as setting changing the language, see "Changing the Display Language", About This Machine.
- For details about specifying other settings such as checking counter, see "Displaying the Total Counter", About This Machine.
- For details about specifying other settings such as checking enquiry, see "Enquiry", About This Machine.

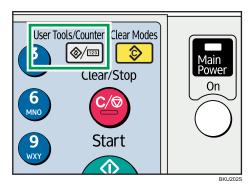
■ Reference

• p.19 "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 $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, 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 [Exit].
- 9. Press the [User Tools/Counter] key.

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].

Output: Copier (Copier)

Specify a tray to which document are delivered.

The default settings is [Internal Tray 1].

Output: Facsimile (Facsimile)

Specify a tray to which document are delivered.

The default settings is [Internal Tray 1].

Output: Printer (Printer)

Specify a tray to which document are delivered.

The default settings is [Internal Tray 1].

Screen 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 [mm].

Copier/Printer Mem. Usage

You can select the memory allocation priority from the copier or printer function.

The default setting is [Copier Priority].

You must turn the machine's power off and then back on again for the new settings to take effect.

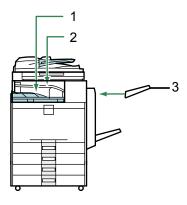
Reference

• p.16 "Accessing User Tools"

Output Tray Settings

Mportant !

- You cannot interrupt the current stapling job even if a stapling job is specified by a different function.
- When the optional finisher is installed and stapling or shift-sorting is specified, the job will be delivered to the finisher shift tray regardless of the output tray specified.



BKU014S

- 1. Internal Tray 1
- 2. Internal Tray 2
- 3. Right Tray

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.

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:

- [Auto Detect]
- [A3 \square], [A4 \square], [A5 \square], [A6 \square], [B4 JIS \square], [B5 JIS \square], [B6 JIS \square], [C5 Env \square], [C6 Env \square], [DL Env \square], [12 × 18 \square], [11 × 17 \square], [8¹/₂ × 14 \square], [8¹/₂ × 13 \square], [8¹/₂ × 11 \square], [8¹/₄ × 13 \square], [8 × 13 \square], [7¹/₄ × 10¹/₂ \square], [5¹/₂ × 8¹/₂ \square], [4¹/₈ × 9¹/₂ \square], [3⁷/₈ × 7¹/₂ \square], [8K \square], [16K \square]
- [A4D], [A5D], [B5 JISD], [C5Env.D], $[8^{1}/_{2} \times 11^{D}]$, $[7^{1}/_{4} \times 10^{1}/_{2}^{D}]$, [16KD]
- [Custom Size]

You can specify a custom size of between 90.0 - 305.0 mm (3.55 - 12.00 in) vertically, and between 148.0 - 600.0 mm (5.83 - 23.62 in) horizontally.

You can specify a custom size of between 90.0 - 305.0 mm (3.55 - 12.00 in) vertically, and between 148.0 - 1260.0 mm (5.83 - 49.60 in) horizontally. For details about specifying custom paper sizes, contact your sales or service representative.

Tray Paper Size: Tray 1 - 2

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

The paper sizes you can set for tray 1 - 2 are as follows:

- [Auto Detect]
- [A3 \square], [A4 \square], [B4 JIS \square], [B5 JIS \square], [11 × 17 \square], [11 × 15 \square], [10 × 14 \square], [8 $^1/_2$ × 14 \square], [8 $^1/_2$ × 13 \square], [8 $^1/_2$ × 11 \square], [8 $^1/_4$ × 14 \square], [8 $^1/_4$ × 13 \square], [8 × 13 \square], [8 × 10 \square], [7 $^1/_4$ × 10 $^1/_2$ \square], [8K \square], [16K \square]
- [A4D], [A5D], [B5 JISD], [$8^{1}/_{2} \times 11^{1}$ D], [$7^{1}/_{4} \times 10^{1}/_{2}$ D], [16KD]
- [Custom Size]

The default setting is [Auto Detect].

You can specify a custom size of between 182.0 - 297.0 mm (7.17 - 11.69 in) vertically, and between 148.0 - 432.0 mm (5.83 - 17.00 in) horizontally. If you need the paper size, contact your service representative.

Tray Paper Size: Tray 3 - 4 (When the lower paper trays are installed.)

Select the size of the paper loaded in the paper tray 3 - 4 (When the lower paper trays are installed).

The paper sizes you can set for tray 3-4 (When the lower paper trays are installed) are as follows:

- [Auto Detect]
- [A3 \square], [A4 \square], [A5 \square], [B4 JIS \square], [B5 JIS \square], [11 × 17 \square], [11 × 15 \square], [10 × 14 \square], [8¹/₂ × 14 \square], [8¹/₂ × 13 \square], [8¹/₂ × 11 \square], [8¹/₄ × 14 \square], [8¹/₄ × 13 \square], [8 × 13 \square], [8 × 10 \square], [7¹/₄ × 10¹/₂ \square], [8K \square], [16K \square]
- [A4D], [A5D], [B5 JISD], $[8^{1}/_{2} \times 11D]$, $[7^{1}/_{4} \times 10^{1}/_{2}D]$, [16KD]
- [Custom Size]

The default setting is [Auto Detect].

You can specify a custom size of between 140.0 - 297.0 mm (5.52 - 11.69 in) vertically, and between 148.0 - 432.0 mm (5.83 - 17.00 in) horizontally. If you need the paper size, contact your service representative.

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], [Colour Paper], [Letterhead], [Label Paper], [Preprinted Paper], [Bond Paper], [Cardstock], [OHP (Transparency)], [Thick Paper 1], [Thick Paper 2], [Thick Paper 3], [Middle Thick], [Thin Paper], [Special Paper 1], [Special Paper 2], [Special Paper 3], [Special Paper 4], [Special Paper 5], [Special Paper 6], [Envelope], [Coated Paper], [Coated Paper: Gloss Print]

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

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.

Paper Type: Tray 1 - 2

Sets the display so you can see what type of paper is loaded in the paper tray 1 - 2.

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

The paper types you can set for the paper tray 1 - 2 are as follows:

[No Display (Plain Paper)], [Recycled Paper], [Colour Paper], [Letterhead], [Label Paper], [Preprinted Paper], [Bond Paper], [Cardstock], [Thick Paper 1], [Thick Paper 2], [Thick Paper 3], [Middle Thick], [Special Paper 1], [Special Paper 2], [Special Paper 3], [Special Paper 4], [Special Paper 5], [Special Paper 6], [Envelope], [Coated Paper], [Coated Paper: Gloss print]

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.

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

Paper Type: Tray 3 - 4 (When the lower paper trays are installed.)

Sets the display so you can see what type of paper is loaded in the paper tray 3 - 4 (when the lower paper trays are installed).

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

The paper types you can set for the paper tray 3-4 (when the lower paper trays are installed) are as follows:

[No Display (Plain Paper)], [Recycled Paper], [Colour Paper], [Letterhead], [Preprinted Paper], [Bond Paper], [Cardstock], [Middle Thick], [Special Paper 1], [Special Paper 2,] [Special Paper 3]

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, [APS] is not valid.

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.

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.16 "Accessing User Tools"

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.

Panel Off Timer

Set the amount of time the machine waits before switching the panel off after copying has finished or the last operation is performed.

Enter a time interval between 10 seconds and 240 minutes, using the number keys.

The default setting is [On], "1" min, "00" sec.

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 $[\P]$ and $[\P]$ key.

Set Time

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

Enter the time using the 24-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.16 "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.

The physical address (MAC address) also appears.

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).

DDNS Configuration

Specify the DDNS settings.

The default setting is [Active].

IPsec

Specify the machine's IPsec function Active/Inactive.

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.xxx" ("x" indicates a number).

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 [Active].

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

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

NCP Delivery Protocol

Select the protocol NCP delivery.

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.

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.16 "Accessing User Tools"
- p.256 "Configuring IEEE 802.1X"

Print I/F Setting List

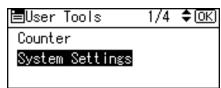
This section describes how to print the configuration page.

You can check items related to the network environment.

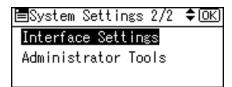
The configuration page shows the current network settings and network information.

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

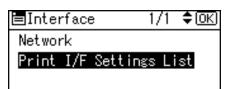
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



3. Press [Interface Settings] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



4. Press [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.



• p.16 "Accessing User Tools"

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.

· 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 50 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.
- · 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 Label

Prints the quick dial label.

- 1. Press the [User Tools/Counter] key.
- 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:Print List] using [▲] or [▼], and then press the [OK] key.
- Select a desired list to print using [▲] or [▼], and then press the [OK] key.
- 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, Copy:Full Clr, Copy:B&W, Printer:Full Clr, Printer:B&W, Printer:1-Clr, Printer:2-Clr, Fax Print:B&W, Fax Prt:1-Clr, Send Total:Clr, Send Total:B&W, Fax TX, Scan Send:Clr, Scan Send:B&W, A3/DLT, Duplex).

Print Counter List

Prints 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 Counter].

Display

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

- Copier Counter:F.Clr
- Copier Counter:B&W
- Printer Counter:F.Clr
- Printer Counter:B&W
- Printer Counter: 1-Clr
- Printer Counter:2-Clr
- Fax Print Counter:B&W
- Fax print Counter: 1-Clr
- 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 Users

Prints the counter values for each user.

- Clear
 - All Users

Clears the counter value for all the users.

• Per User

Clears the counter value for each user.

User Auth. Management

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.

If User Code Authentication has been specified, Auto Colour Select cannot be used.

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

- Copier:Full Colour/B&W
- Printer:Auto Program
- Fax
- Scanner
- Restrict Functions
- Printer Job Authentication
 Enter, Simple (Limitation), Simple (All)
- Basic Auth.
- Windows Auth.
- LDAP Auth.
- Integration Svr. Auth.
- Off

The default setting is [Off].

Admin. Auth. Management

For details about this function, consult your administrator.

Key Counter Management

You can specify the function you want to manage with the key counter.

- Copier
- Printer
- Facsimile
- 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

You can program the LDAP server to find up fax destinations in the LDAP server Address Book directly. This function is possible when using fax function.

• Name

- Server Name
- Search Base
- Port No.
- SSL (Use Secure Connection)
- Authentication
- User name
- 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

You can 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

You can 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)

You can specify whether or not to use Auto Off.

The default setting is [On].

Energy Saver Level

You can specify the level for the Energy Saver mode.

When it is set to [Level 1], the machine recovers from energy saver mode to normal mode and become ready to make copy in about 3 seconds.

When it is set to [Level 2], the machine recovers from energy saver mode to normal mode and become ready to make copy in about 10 seconds. When it is set to [Level 2], the machine consumes less power than when it is set to [Level 1].

The default setting is [Level 2].

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.

Transfer Log Setting

For details about this function, consult your administrator.

Data Security for Copying

For details about this function, consult your administrator.

Fixed USB Port

You can specify whether or not to fix the USB port.

The default setting is [Off].

If a PC with the printer driver installed is connected to another device of the same model through the USB interface, selecting [On] for this option eliminates the additional installation of the driver to the PC.

■ Reference

- p.16 "Accessing User Tools"
- p.38 "Programming the LDAP server"
- p.47 "Programming the Realm"
- p.175 "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.

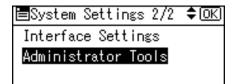
Programming the LDAP server

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.

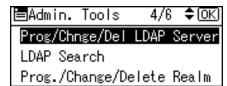


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

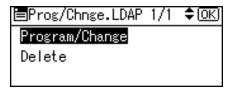


1

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

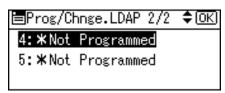


5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



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

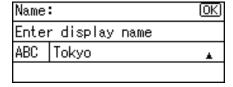
When programming the server, select [*Not Programmed].



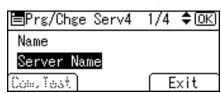
7. Select [Name] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



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



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



1

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

Serve	er Name:	(<u>0K</u>)
Ente	r server name.	
ABC	TK <u>O</u>	

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 search targets.

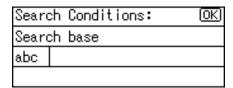


12. Enter the search base, and then press [OK].

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.)

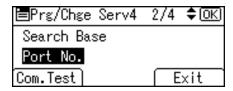
Search base registration may be required depending on your server environment. When registration is required, unspecified searches will result in error.

Check your server environment and enter any required specifications.

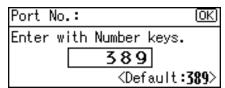


13. Select [Port No.] using [▲] or [▼], and then press the [OK] key.

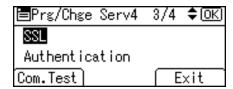
Specify the port number for communicating with the LDAP server. Specify a port that is compliant with your environment.



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



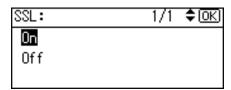
15. Select [SSL] using [▲] or [▼], and then press the [OK] key.



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

Use SSL to communicate with the LDAP server.

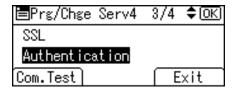
To use SSL, the LDAP server must support SSL.



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:	<u>(0K)</u>
Ente	r user name.	
abc	Tokyo	

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.

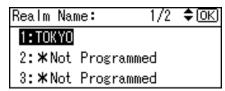
Password:		(OK)
Enter password.		
abc	****	

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 LDAP Authentication".

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

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.

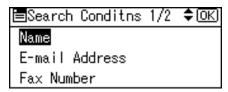
- 23. Press [Exit].
- 24. Select [Search Conditions] using [▲] or [▼], and then press the [OK] key.



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.

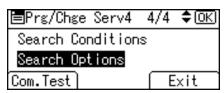
26. Enter attribute, and then press the [OK] key.

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	cn		

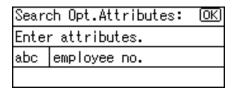
27. Select [Search Options] using [▲] or [▼], and then press the [OK] key.



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

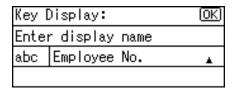
To search the LDAP server date using a keyword other than prepared keywords such as Name, E-mail Address, FAX Number, Company Name, and Department Name, specify the attribute for the keyword registered in your LDAP server, and the name to be displayed on the control panel during the search. For example, to search e-mail 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.



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

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



30. Press [Exit].



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

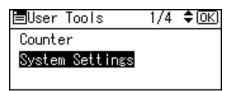


• p.230 "Registering LDAP Authentication"

Changing the LDAP server

This section describes how to change the programmed LDAP server.

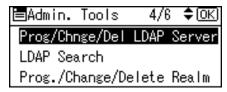
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



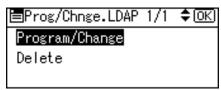
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



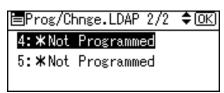
4. Select [Prog/Chnge/Del LDAP Server] using [▲] or [▼], and then press the [OK] key.



Select [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.



- 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.

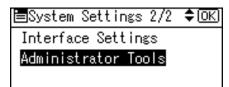
Deleting the LDAP server

This section describes how to delete the programmed LDAP server.

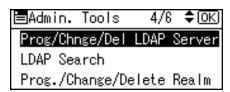
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



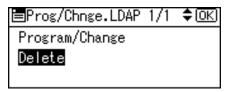
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



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



5. 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].
- 8. Press the [User Tools/Counter] key.

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.



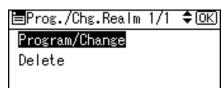
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



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

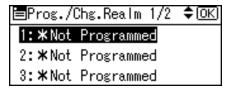


5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.

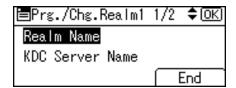


1

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.

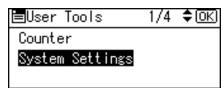
11. Press the [User Tools/Counter] key.

Changing the Realm

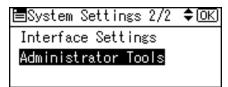
This section describes how to change the programmed Realm.

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

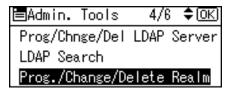
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



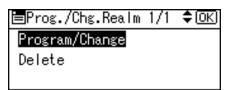
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



4. 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 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.

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

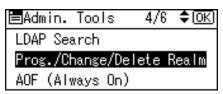
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



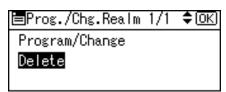
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



4. Select [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].



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

9

2. Connecting the Machine

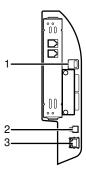
This chapter describes how to connect the machine to the network and specify the network settings.

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.



BKU003S

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. USB 2.0 port

Port for connecting the USB2.0 interface cable.

3. 10BASE-T/100BASE-TX port

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

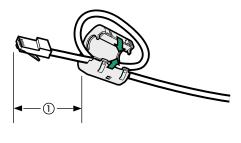
Connecting to the Ethernet Interface

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



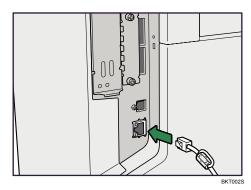
- If the main power switch is on, turn it off.
- Use the following Ethernet cables.
 - Unshielded Twisted Pair Cable (UTP) or Shielded Twisted Pair Cable (STP) and Category type
 5 or more

1. A ferrite core for the Ethernet interface cable is supplied with this machine. Make a loop in the cable about 10 cm (4 inch) (1) from the machine end of the cable. Attach the ferrite core.

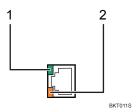


- 2. Make sure the main power switch of the machine is off.
- 3. Connect the Ethernet interface cable to the 10BASE-T/100BASE-TX port.

BBM011S



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



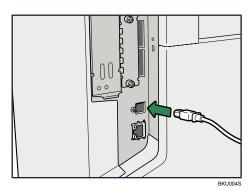
- For details about how to turn on the main power switch, see "Turning On the Main Power", About This Machine.
- For details about installing the printer driver, see "Preparing the Machine", Printer and Scanner Reference.

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 and Scanner Reference.

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	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].

■ Reference

• p.27 "Interface Settings"

Network Settings Required to Use Network TWAIN Scanner

This section lists the network settings required to use 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 to use 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	IEEE 802.1X Auth. (Ethernet)	As required
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].



• p.27 "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.

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] → "IP Add."

- 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 M"

- 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] → "Mac Add."

- 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] → "Link-local 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] → [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] → [Machine IPv6 Address] → "Stateless Address 1-5"

- 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] → [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)] → [Active]

- 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] → [IEEE802.1X Auth. (Ethernet)] → [Inactive]

- 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.



- 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 "Remote Maintenance by telnet".

Reference

- p.79 "Using Web Image Monitor"
- p.91 "Using SmartDeviceMonitor for Admin"
- p.109 "Remote Maintenance by telnet"

2

Connecting the Machine to a Telephone Line and Telephone

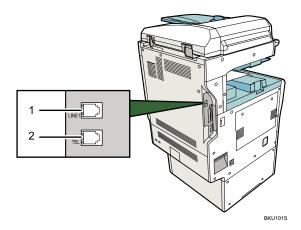
This section describes how to connect the machine to the telephone lines and select the line type.

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 interface unit 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.

3. Using a Printer Server

This chapter describes how to configure the machine as a network to 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 a member of the Administrators group.
- 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.

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".

A "print server" is a network-shared computer with a printer connected to it. It accepts print jobs from other computers on the network, and prints those jobs in order of arrival.

A "remote printer" is a shared printer on a LAN or similar network. It is used by multiple users to process print jobs.



- IPvó can not be used on this function.
- IPX/SPX (NetWare) cannot be used under Windows Vista and Windows Server 2008.
- NetWare is disabled by default. To enable NetWare, change the "NetWare" settings in Web Image
 Monitor, or use the "set" command in telnet. For details, see Web Image Monitor Help, or "Remote
 Maintenance by Telnet".

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.91 "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.79 "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.

- 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.
- 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:> 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.79 "Using Web Image Monitor"

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].
- 7. 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].
- Select a context specified, and then click [Create] on the [Object] menu.
- 18. 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.

3

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.

- 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.79 "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.



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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.
- 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].
- 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].
- 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.
- 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

- 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 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.



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4. Monitoring and Configuring the Printer

This chapter describes how to monitoring and configuring the printer.

Using Web Image Monitor

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

Available operations

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

- Displaying machine status or settings
- · Checking the print job status or history
- · 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.

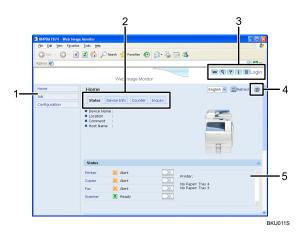


- When entering an IPv4 address, do not begin segments with zeros. For example: If the address is "192.168.001.010", you must enter it as "192.168.1.10".
- 1. Start your Web browser.
- Enter "http://(machine's IP address or host name)/" in your Web browser's URL bar.
 Top Page of Web Image Monitor appears.

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].

Note

2. 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)

1. Click [Logout] to log off.



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

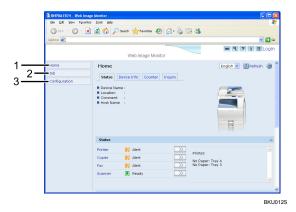
About Menu and Mode

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.



1. Home

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

Job

Display all print files.

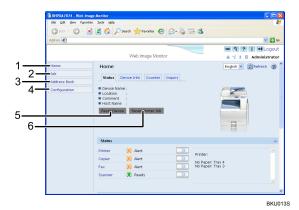
3. Configuration

Display current machine and network settings.

4

Administrator Mode

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



1. Home

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

2. Job

Display all print files.

3. Address Book

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

4. Configuration

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

5. Reset 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.

6. 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.

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
Printer	Read	Read
Fax	Read	Read
Send/TX Total	Read	Read

4

Menu	Guest mode	Administrator mode
Fax Transmission	Read	Read
Scanner Send	Read	Read
Coverage	Read	Read
Other Function(s)	Read	Read

Inquiry

Menu	Guest mode	Administrator mode
Machine Maintenance/Repair	Read	Read
Sales Representative	Read	Read

Job

Job List

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

Printer

Menu	Guest mode	Administrator mode
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

4

Menu Guest mode Administrator mode Address Book 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
User Authentication Management	None	Read/Modify
Administrator Authentication Management	None	Read/Modify
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
Virtual Printer Settings	Read	Read/Modify

Fax

Menu	Guest mode	Administrator mode
General Settings	None	Read/Modify
Administrator Tools	None	Read/Modify
Parameter Settings	None	Read/Modify

Interface

Menu	Guest mode	Administrator mode
Interface 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	None	Read/Modify
System Log	Read	Read

Security

Menu	Guest mode	Administrator mode
Network Security	None	Read/Modify
Access Control	None	Read/Modify
IPP Authentication	None	Read/Modify

Menu	Guest mode	Administrator mode
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

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
Uninstall	None	Read/Modify
Change Allocation	None	Read/Modify
Administrator Tools	None	Read/Modify

Menu	Guest mode	Administrator mode
Copy Extended Features	None	Read/Modify
Copy Card Save Data	None	Read/Modify



• Some items are not displayed depending on the security settings.

Displaying Web Image Monitor Help

When using Help for the first time, clicking the icon marked "?" (20) 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 "?" (②) in the header area, the contents of Help appear.
- By clicking "?" (), the Help icon in the display area, Help for the setting items in the display area appears.

Downloading Help

- 1. In the [OS] list, select the operating system.
- 2. In the [Language] list, select the language.
- 3. Click [Download].
- 4. Download Help by following the instructions on the screen.
- 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

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 (??).

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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.
- IPX/SPX (NetWare) cannot be used under Windows Vista and Windows Server 2008.
- NetWare is disabled by default. To enable NetWare, change the "NetWare" settings in Web Image Monitor, or use the "set" command in telnet. For details, see Web Image Monitor Help, or "Remote Maintenance by Telnet".

Protocol stack provided with Operating System

Windows 2000

TCP/IP

IPX/SPX

NetWare

Novell Client

• Windows Server 2003/2003 R2

TCP/IP

IPX/SPX

Novell Client

Windows Server 2008

TCP/IP

Windows XP

TCP/IP

IPX/SPX

Novell Client

• Windows Vista

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 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.

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.

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.
- 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".



• p.79 "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".



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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.79 "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.

Starting User Management Tool

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.



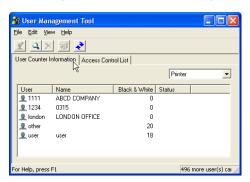
- For details about login user names and passwords, see Security Reference, which is the administrator's manual.
- For details about User Management Tool, see SmartDeviceMonitor for Admin Help.

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.

2. Click the [User Counter Information] tab of User Management Tool.



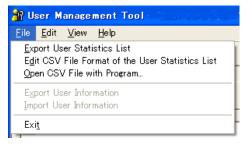
The number of pages printed under each user appears.

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.
- 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.
- 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.
- 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].

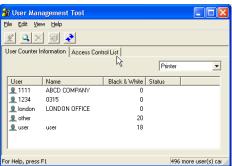
The settings are applied.

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.



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 Saver Mode

Follow the procedure below to configure Energy Saver 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.

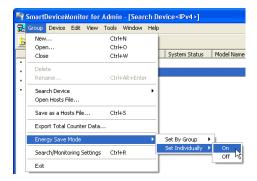
Select the protocol of the machine whose configuration you want to change.

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.

4. 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 Saver 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 IPv4 SNMPv3, enter the user authentication.

- 3. Click the [View] menu, and then click [Select List Columns].
- 4. From [Device] in the [Select 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 Names and Comments

Follow the procedure below to change the names and comments of 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.79 "Using Web Image Monitor"

Loading 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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Managing Address Information

- 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 [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.

Using SmartDeviceMonitor for Client

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

Monitoring Printers

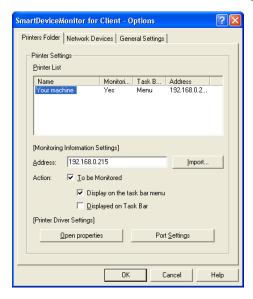
Follow the procedure below to monitor the machine using SmartDeviceMonitor for Client.

 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.

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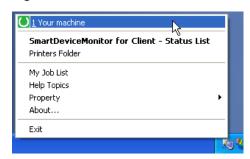


• For details about status icons, see SmartDeviceMonitor for Client Help.

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.

- 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.

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Remote Maintenance by telnet

- 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.

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).

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- 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
```

msh> authfree 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".

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.

Interface	Interface configured
ether	Ethernet 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.

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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.

Interface	Interface configured
ether	Ethernet 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.

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}.

Interface name	Interface configured
ether	Ethernet 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.247 "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 "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:

```
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".

Interface name	Interface configured
ether	Ethernet 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.

View settings

The following command displays the current domain name:

msh> domainname

4

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 will have the same domain name.

Interface	Interface set
ether	Ethernet 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".

help

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

Command list display

msh> help

Display of procedure for using commands

msh> help "command_name"

hostname

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

View settings

msh> hostname

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 will have the same printer name.
- If you do not specify an interface, the Ethernet interface is selected automatically.

Interface name	Interface configured
ether	Ethernet 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.

Interface name	Interface configured
ether	Ethernet 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 255.255.250 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



- 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.
- Use "0x" as the initial two letters of a hexadecimal address.

info

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

Printer information display

msh> info

■ Reference

• p.154 "Understanding the Displayed Information"

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.

Viewing 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> lpr

Checking host name when deleting the job

msh> 1pr 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
ірх	IPX

passwd

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

Changing the password

msh> passwd

- Enter the current password.
- Enter the new password.
- Renter the new password to confirm it.

Changing the password of the administrators using the Supervisor

msh> passwd {Administrator ID}

- Enter the new password.
- Renter the new password to confirm it.



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

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.

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"

1

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.

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.

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 "Reliability Host Printing Protocol", which is a manufacturer-original printing protocol.

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 lpr

msh> set 1pr6

msh> set ftp

msh> set ftp6

msh> set rsh

msh> set rsh6

msh> set diprint

msh> set diprint6

msh> set web

4

```
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 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, 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 bonjour {up|down}
msh> set ssh {up|down}
msh> set ssh {up|down}
msh> set sftp {up|down}
msh> set sftp6 {up|down}
msh> set sftp6 {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), and WSD (Printer).

```
msh> set wsprn {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.

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.

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".

4

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

syslog

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

View message

msh> syslog

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

wins

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

Viewing 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.

Interface name	Interface configured
Ether	Ethernet 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.

Interface name	Interface configured
Ether	Ethernet interface

wsmfp

Use the "wsmfp" command to view and configure WSD (Device) and WSD (Printer) 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.

Comment initialization

msh> wsmfp clear comments

Location initialization

msh> wsmfp clear location

Presentation URL initialization

msh> wsmfp clear url

8021x

Use the "8021x" command to display IEEE 802.1x related information.

View settings

msh> 8021x

Configuration

msh> 8021x "parameter"

Parameter	Value configured
eap {tls ttls leap peap} {chap mschap mschapv2 pap md5 tls}	You can specify the EAP authentication type.
	tls: EAP-TLS (default)
	#ls: 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.
password "character string"	You can specify the login for the Radius server.
	Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank.

Parameter	Value configured
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 set the subdomain certificate. The default is "off".
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 will not be initialized.

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 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.

• 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.
Add staples (Booklet: Back)	The staple of booklet finisher (back) is exhausted.
Add staples (Booklet: Both)	The staple of booklet finisher is exhausted.
Add staples (Booklet: Front)	The staple of booklet finisher (front) is exhausted.
Adjusting	The machine is initializing or calibrating.
Call Service Center	There is a malfunction in the machine.
Canceled	The job is reset.
Canceling Job	The job is being reset.
Cannot Eject Original Through	The original can not 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.

Messages	Description
Cover Open: ADF	The document feeder is open.
Cover Open: Duplex Unit	The cover of the duplex unit is open.
Cover Open: Finisher	The cover of Finisher is open.
Cover Open: 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.
Cover Open: Upper Right Cover	The upper right cover is open.
Current Job Suspended	The current job is suspended.
Empty: Black Toner	The black toner cartridge is almost empty.
Empty: Cyan Toner	The cyan toner cartridge is almost empty.
Empty: Magenta Toner	The magenta toner cartridge is almost empty.
Empty: Yellow Toner	The yellow toner cartridge is almost empty.
Energy Saver Mode	The machine is in Energy Saver Mode.
Envelope Setting Error: None	Printing paper type other than envelope is instructed when B2 lever is down.
Envelope Setting Error: Others	Printing envelope is instructed when B2 lever is down.
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.

Messages	Description
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.
Exceed Booklet Stapling Limit	The printing has exceeded the stapling limit of the booklet finisher.
Exceed Stapling Limit	The printing has exceeded the stapling limit.
Full: Finisher	Finisher tray is full.
Full: Finisher Booklet Tray	Booklet tray of Finisher is full.
Full: Finisher Shift Tray	Shift tray of Finisher is full.
Full: Finisher Shift Tray 1, 2	The shift tray 1 and 2 of Finisher are full.
Full: Finisher Upper Tray	Finisher's upper tray is full.
Full: Hole Punch Receptacle	Punch Chip receptacle for hole punch is full.
Full: Internal Tray 1	The internal tray is full.
Full: Log Data Capacity	The log data capacity is full.
Full: Waste Toner	The waste toner is full.
Full: Waste Toner Bottle 2	The waste toner bottle 2 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.

Messages	Description
In Use: Fax	The fax is being used.
In Use: Finisher	Another function is using Finisher.
In Use: Input Tray	Another function is using the input tray.
In Use: Staple Unit	Another function is using the staple unit.
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.
Loading Toner	Toner is being supplied.
Malfunction: Booklet Processor	There is a problem with booklet finisher.
Malfunction: Bypass Tray	There is a problem with bypass tray.
Malfunction: Duplex Unit	There is a problem with the duplex unit.
Malfunction: Ext. Charge Unit	There is a problem with the external charge unit.
Malfunction: Finisher Tray	There is a problem with the finisher tray.
Malfunction: Interposer	There is a problem with the Interposer.
Malfunction: Staple Unit	There is a problem with the staple unit.
Malfunction: Tray 1	There is a problem with tray 1.
Malfunction: Tray 3	There is a problem with tray 3.
Malfunction: Tray 4	There is a problem with tray 4.
Memory Low: Fax Scanning	Memory shortage has occurred while transmitting the fax.
Miscellaneous Error	Other error has occurred.

Messages	Description
Mismatch: Paper Type	Indicated paper tray does not contain paper of selected type.
Near Replacing: Color Dev. Unit	Prepare the new color development unit.
Near Replacing: Color PCU	Prepare the new color photoconductor unit.
Near Replacing: Develop. Unit C	Prepare the new development unit (cyan).
Near Replacing: Develop. Unit K	Prepare the new development unit (black).
Near Replacing: Develop. Unit M	Prepare the new development unit (magenta).
Near Replacing: Develop. Unit Y	Prepare the new development unit (yellow).
Near Replacing: Fusing Unit	Prepare the new Fusing Unit.
Nearly Full: Waste Toner	Waste toner bottle is nearly full.
Nearly Full: Waste Toner Bottle2	Waste toner bottle2 is nearly full.
Need more Staples	Stapler has almost run out of staples.
No Paper: Interposer Tray	There is no paper in interposer unit.
No Paper: Selected Tray	There is no paper in specified tray.
No Paper: Tray 1	There is no paper in tray 1.
No Paper: Tray 2	There is no paper in tray 2.
No Paper: Tray 3	There is no paper in tray 3.
No Paper: Tray 4	There is no paper in tray 4.
Not Detected: B2 Lever	B2 lever is not correctly set.
Not Detected: Black Toner	Black toner is not correctly set.
Not Detected: Cyan Toner	Cyan toner is not correctly set.
Not Detected: Develop. Unit (C)	The development unit (cyan) is not correctly set.
Not Detected: Develop. Unit (K)	The development unit (black) is not correctly set.
Not Detected: Develop. Unit (M)	The development unit (magenta) is not correctly set.
Not Detected: Develop. Unit (Y)	The development unit (yellow) is not correctly set.

Messages	Description
Not Detected: Duplex Feed Unit	The duplex unit is not correctly set.
Not Detected: Duplex Unit	The duplex feed unit is not correctly set.
Not Detected: Finisher	The finisher is not correctly set.
Not Detected: Fusing Unit	The fusing unit is not correctly set.
Not Detected: Input Tray	The paper feed tray is not correctly set.
Not Detected: Interposer	Interposer unit is not correctly set.
Not Detected: Magenta Toner	The magenta toner is not correctly set.
Not Detected: PCU (C)	The photoconductor unit (cyan) is not correctly set.
Not Detected: PCU (M)	The photoconductor unit (magenta) is not correctly set.
Not Detected: PCU (Y)	The photoconductor unit (yellow) is not correctly set.
Not Detected: Tab Stock	The tab stock 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: Tray 4	Tray 4 is not correctly set.
Not Detected: Waste Toner Bottle	Waste toner bottle is not correctly set.
Not Detected: Yellow Toner	The yellow toner 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.

Messages	Description
Panel Off Mode	The machine is in Panel-Off mode.
Panel Off Mode>>Printing ava.	The machine is in Control Panel-Off mode.
Paper in Duplex Unit	The paper remains in the duplex unit.
Paper in Finisher	The paper remains in Finisher.
Paper Misfeed: ADF	The paper has jammed in Document Feeder.
Paper Misfeed: Duplex Unit	The paper has jammed in Duplex Unit.
Paper Misfeed: Finisher	The paper has jammed in Finisher.
Paper Misfeed: Input Tray	The paper has jammed in Input Tray.
Paper on Finisher Shift Tray 2	The paper remains in Finisher Shift Tray 2.
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 connection with RC Gate.
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 Develop. Unit	It is time to replace the development unit.

Messages	Description
Replace Develop. Unit (Black)	It is time to replace the development unit (black).
Replace Develop. Unit (Color)	It is time to replace the development unit (color).
Replace Develop. Unit (Cyan)	It is time to replace the development unit (cyan).
Replace Develop. Unit (Magenta)	It is time to replace the development unit (magenta).
Replace Develop. Unit (Yellow)	It is exchange time of the development unit (yellow).
Replace Developer	It is time to replace the development unit.
Replace Developer (Black)	It is time to replace the development unit (black).
Replace Developer (Cyan)	It is time to replace the development unit (cyan).
Replace Developer (Magenta)	It is time to replace the development unit (magenta).
Replace Developer (Yellow)	It is time to replace the development unit (yellow).
Replace Fusing Unit	It is time to replace the fusing unit.
Replace Int. Transfer Unit	It is time to replace the int. transfer unit.
Replace Maintenance Kit	It is time to replace the maintenance kit.
Replace PCU (Color)	It is time to replace the photoconductor unit (Color).
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	IPDS font error occurred.
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.

Messages	Description
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.



• Check the error contents that may be printed in the configuration page.

Printer configuration

You can check the printer configuration using telnet.

This section explains the checking procedure for input/output tray and printer language.

• 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

ltem	Description
	NoInputTray: No tray
	PaperEnd: No paper

Output Tray

Item	Description
No.	ID number of the output tray
Name	Name of the output tray
Status	Current status of the output tray
	Normal: Normal
	PaperExist: Paper exist
	OverFlow: Paper is full
	Error: Other errors

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
Version	Version of the printer language

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:

• 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.

Print Log Information

This is a record of the most recent jobs printed.

Use the following command to display print log information:

• 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

ltem	Description
	 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.

Configuring the Network Interface Board

Use the following command to display network interface board settings:

• telnet: Use the "show" command.

		ltem	Description
Со	Common		
	Mode		
	Protocol Up/Down		Protocol Settings
		AppleTalk	
		IPv4	
		IPv6	

ltem		ltem	Description
		IPsec	
		NetWare	
		SMB	
		PictBridge	
	De	vice Up/Down	Device Settings
		USB	
	Eth	ernet interface	
	Sys	slog priority	
	ΝV	RAM version	
	De	vice name	
	Со	mment	
	Loc	cation	
	Contact		
	Soft switch		
Ар	pleT	alk	AppleTalk settings
	Мс	ode	
	Ne	t	
	Ob	ject	
	Тур	pe	
	Zone		
TCI	TCP/IP		TCP/IP settings
	Mode (IPv4)		
	Мс	ode (IPv6)	
		ftp	
		lpr	

ltem		ltem	Description
		rsh	
		telnet	
		diprint	
		web	
		http	
		ftpc	
		snmp	
		ірр	
		autonet	
		ssl	
		nrs	
		rfu	
		nbt	
		ssdp	
		ssh	
		sftp	
		WSD (Device)	
		WSD (Printer)	
		rhpp	
	IPv	4	
		DHCP	
		Address	
		Netmask	
		Broadcast	
		Gateway	

ltem		ltem	Description
IPv6			
	Stc	ateless	
	М	anual	
	Go	ateway	
	DH	HCPv6-lite	
	DL	JID	
	DH	ICPv6 option lifetime	
IPs	ec		
	М	anual Mode	
	Exe	cluded Protocol	
		https	
		dns	
		dhcp	
		wins	
End	сарТ	уре	
Host name		ame	
DN	1S D	omain	
Ac	cess	Control	Access Control settings
	ΙΡν	4	
		Access Entry [X]	X can be set between 1 and 5.
	ΙΡν	76	
		Access Entry [X]	X can be set between 1 and 5.
SNTP Server		Derver	Time settings
Tim	ne Zo	one	
SN	ITP S	Server polling time	

ltem		Description
	SYSLOG server	Websys settings
	Home page URL1	
	Home page link name 1	
	Home page URL2	
	Home page link name2	
	Help page URL	
	RHPP Port	
	RHPP timeout	
Ne	etWare	
	EncapType	
	RPRINTER number	
	Print server name	
	File server name	
	Context name	
	Switch	
	Mode	
	NDS/Bindery	
	Packet negotiation	
	Login Mode	
	Print job timeout	
	Protocol	
	SAP interval time	
	NDS Tree Name	
	Transfer Protocol	
SN	MB	SMB settings

ltem			Description
	Switch		
		Mode	
		Direct print	
		Notification	
	Wo	orkgroup name	
	Со	mputer name	
	Со	mment	
	Sho	are name [1]	
	Pro	otocol	
Eth	erne	ıt .	
	80	2.1X Authentication	
DN	IS		DNS settings
	IPv4		
	Server [X]		X can be set between 1 and 3.
		Selected IPv4 DNS Server	
	ΙΡν	6	
		Server [X]	X can be set between 1 and 3.
		Selected IPv6 DNS Server	
Do	mair	n Name	
	ether		
DD	DDNS		
	ether		
WI	VINS		WINS settings
	ether		
		Primary WINS	
		ı	

ltem		Description
	Secondary WINS	
SSDP		SSDP settings
	UUID	
	Profile	
	TTL	
UP	nP	UPnP settings
	URL	
Во	njour	Bonjour settings
	Computer Name (cname)	
	Local Hostname (ether)	
	Location	
	Priority (diprint)	
	Priority (lpr)	
	Priority (ipp)	
	IP TTL	
	LinkLocal Route for Multi I/F	
	IPP Port	
SN	MP	SNMP settings
	SNMPv1v2	
	SNMPv3	
	protocol	
	vlTrap	
	v2Trap	
	v3Trap	
	SNMPv1v2 Remote Setting	

	ltem	Description
	SNMPv3 Privacy	
ssh		ssh settings
	Compression	
	Port	
	TimeOut	
	Login TimeOut	
Au	hFree	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
	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	

	ltem	Description
	MetadataVersion	
	UUID	
IEEE 802.1X		IEEE 802.1X settings
	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	
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:

• 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>	Login to the file server failed when the print server is active. Make sure that the print server is registered on <file name="" server="">. If a password is specified for the print server, delete the password.</file>
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.
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.
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_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.
add_sess_IPv4: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.
add_sess_IPv6: community <community name=""> already defined.</community>	The same community name already exists. Use another community name.

Message	Problem and solutions
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. NTP Server: NTP server name offset: number of seconds of delay (minus number if a time in advance is specified)
ANONYMOUS FTP LOGIN FROM <ip address="">, <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></ip>	An anonymous user logged in from the post <ip address=""> using the password <password>.</password></ip>
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>	The system attached to the print queue when the print server is active.
authenticating	The supplicant is authenticating with the access point (EAP or WPA).
authentication mode mismatch	The authentication mode of the access point is different from the authentication mode of the supplicant. Use the authentication mode between the access point and the supplicant.
child process exec error !	The network service failed to start. Turn the printer off and then on. If this does not work, contact your service or sales representative.
cipher suite mismatch	The uni-cast / multi-cast suite (TKIP/AES/WEP) of the access point is different from the suite used by the supplicant.
client EAP method rejected	The authentication mode of the access point is different with the authentication mode of the supplicant.

Message	Problem and solutions
	Use the same authentication mode between the access point and the supplicant.
Client password rejected	The client's password was rejected. Check the client password.
Client TLS certificate rejected	The client's TLS certificate was rejected. Check the certificate.
connected DHCPv6 server <ipv6 address=""></ipv6>	The IP address was successfully received from the DHCPv6 server.
Could not attach to FileServer <error number=""></error>	Connection to the file server has not been established when the remote printer is turned on. The file server has refused the connection for unknown reason. Check the file server configuration.
Could not attach to PServer <print server=""></print>	Connection to the print server has not been established when the remote printer is turned on. The print server has refused the connection. Check the print server configuration.
connection from <ip address=""></ip>	A user logged in from the host <ip address="">.</ip>
Current Interface Speed: xxxMbps	Speed of the network (10Mbps, 100 Mbps, or 1Gbps).
Current IPX address <ipx address=""></ipx>	The current IP address is <ipx address="">.</ipx>
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].
DHCPv6 server not found.	The DHCPv6 server was not found. Make sure that the DHCPv6 is on the network.
dpsd is disabled.	Communication via PictBridge is unavailable because PictBridge is disabled in the security mode. Enable PictBridge in the security mode.
Established SPX Connection with PServer, (RPSocket= <socket number="">, connID=<connection id="">)</connection></socket>	Connection to the print server has been established when the remote printer is turned on.

Message	Problem and solutions
Frametype= <frametype name=""></frametype>	The frame type name <frame name="" type=""/> is configured to be used on NetWare.
(IKE phase-1) mismatched authentication type: local= <authentication 1="" type=""> remote=<authentication 2="" type=""></authentication></authentication>	<authentication type=""> in IKE phase 1 of this machine does not match <authentication type=""> of the communicating host. Match the ISAKMP authentication type of this machine with the communicating host.</authentication></authentication>
(IKE phase-1) mismatched encryption type: <encryption 1="" algorithm=""> remote=<encryption algorithm 2></encryption </encryption>	ISAKMP SA Oakley group <encryption 1="" algorithm=""> in IKE phase 1 of this machine does not match ISAKMP SA Oakley group <encryption 2="" algorithm=""> of the communicating host. Match the ISAKMP SA Oakley group of this machine with the communicating host.</encryption></encryption>
(IKE phase-1) mismatched DH group: local= <dh 1="" group="" number=""> remote=<dh 2="" group="" number=""></dh></dh>	ISAKMP SA Oakley group <dh 1="" group="" number=""> in IKE phase 1 of this machine does not match ISAKMP SA Oakley group <dh 2="" group="" number=""> of the communicating host. Match the ISAKMP SA Oakley group of this machine with the communicating host.</dh></dh>
(IKE phase-1) mismatched hash type: local= <hash Algorithm 1> remote=<hash 2="" algorithm=""></hash></hash 	ISAKMP SA <hash 1="" algorithm=""> in IKE phase 1 of this machine does not match the ISAKMP SA <hash 2="" algorithm=""> of the communicating host. Match the ISAKMP SA Hash Algorithm of this machine with the communicating host.</hash></hash>
Interface (interface name): Duplicate IP Address (<ip address="">).</ip>	The same IP (IPv4 or IPv6) address was used. Each IP address must be unique. Check the address of the device indicated in [IP address].
<interface name=""> card removed</interface>	The interface managed by the supplicant has been removed.
< nterface name> interface down	The interface managed by the supplicant is disabled, or cannot connect to the access point.
<interface name=""> interface up</interface>	The interface managed by the supplicant is enabled, or is connected to the access point.
< Interface > started with IP: < IP address >	IP address (IPv4 or IPv6 address) has been set for the interface and is operating.

Message	Problem and solutions
< Interface >: Subnet overlap.	The same IP address (IPv4, orIPv6 address) and the subnet mask is used with other device.
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 received from the DHCP server is displayed in [lease time] in seconds. The renewal time is displayed in [renew time] in seconds.
LEAP challenge to access point failed	The LEAP challenge to the access point has failed.
Login to fileserver <file name="" server=""> (<ipx ip="" ="">), <nds bindery="" =""></nds></ipx></file>	When the print server is active, the system logged in to <file server=""> in the NDS or BINDERY mode. The transfer protocol in use is also displayed.</file>
Memory allocate error.	Date cannot be obtained. Disconnect the USB cable, and then connect it.
MIC failure TKIP counter measures started	The supplicant using TKIP has detected two instances of tampering within 60 seconds and has started counter measures.
MIC failure TKIP counter measures stopped	Counter measures have stopped after 60 seconds (since the supplicant using TKIP started counter measures against tampering).
Name registration failed. name= <netbios name=""></netbios>	Name registration of <netbios name=""> failed. Change to different NetBIOS name.</netbios>
Name registration success in Broadcast name= <netbios name=""></netbios>	Name registration by Broadcast name of <netbios name=""> 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>
no RADIUS/authentication server	The supplicant has received a message reporting that a usable RADIUS server cannot be found.
no smart card detected on device	PEAP/GTC (Generic Token Card) is selected, but a smart card using GTC authentication cannot be found.

Message	Problem and solutions
Open log file <file name=""></file>	The specified log file has been opened when the print server is active.
Printer <printer name=""> has no queue</printer>	The print queue is not assigned to the printer when the print server is active. Assign the print queue to the printer using NetWare administrator account, and then restart the printer.
Printer queue <print name="" queue=""> cannot be serviced by printer 0, <print name="" server=""></print></print>	The print queue cannot be established when the print server is active. Make sure that print queue exists on the specified file server.
Print server <print name="" server=""> has no printer</print>	The printer is not assigned to the print server when the print server is active. Use the NetWare administrator account to assign the printer, and then restart the printer.
Print sessions full	No more print jobs can be accepted. Wait a while before making a print job again.
Required file server (<file name="" server="">) not found</file>	The required file server <file name="" server=""> is not found.</file>
sap enable. saptype= <sap type="">, sapname=<sap name=""></sap></sap>	The SAP function has been started. The SAP packet is issued to advertise the service on the SAP table on the NetWare server.
server certificate invalid	The server ID is disabled. Check the server authentication.
server identity invalid	The server ID is disabled. Check the server authentication.
server not trusted	The RADIUS server cannot be trusted.
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.
session_IPX <community name=""> not defined.</community>	The requested community name is not defined.
Set context to <nds context="" name=""></nds>	NDS context name < NDS context name > has been set.

Message	Problem and solutions
shutdown signal received. network service rebooting	The network reboot process is starting.
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.
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

Message	Problem and solutions
	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.
success key received	The supplicant received the EAP-Success key.
success but invalid key	The supplicant received a message reporting that EAP authentication was successful, but the EAPOL key was invalid.
supplicant unbound	The supplicant is not connected to the unbound access point.
There is problem in dhcp server operation.	There is a problem with the DHCP server. If multiple DHCP servers are active on the network, check that they are assigning unique IP addresses to each machine.
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 is active. The print server is not registered or a password is specified. Register the print server without specifying a password.
too many pictures.	PictBridge printing failed because too many image are sent during one print transaction. Reduce images at one print transaction.

Message	Problem and solutions
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.
unauthenticated	The authentication failed. The supplicant was denied access to the access point, or was not authenticated.
Updated (option name)(value) via DHCPv6 Server	The parameter obtained from the DHCP server has been updated.
usbd is disabled.	Plug and Play function and printing is disabled because usbd is disabled in the security mode. Enable usbd in the security mode.
waiting for keys	The supplicant is waiting for the session key.
WINS name registration: No response to server (WINS server address)	There was no response from the WINS server. Check the correct WINS server address is entered. Alternatively, check the WINS server is functioning properly.
WINS wrong scope ID= <scope id=""></scope>	An invalid scope ID was used. Use a valid scope ID.
write error occurred. (diskfull)	Diskfull error occurred while writing the spool file. Wait for the print job to progress and available HDD space increases. Only the pages that have been spooled when the error occurred are printed.
write error occurred. (fatal)	Diskfull error occurred while writing the spool file. Wait for the print job to progress and available HDD space increases. The print job that was being spooled when the error occurred is not printed.
WSD (Device) started.	WS-Device has started.
WSD (Printer) started.	WS-Printer 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.

Message	Problem and solutions
#[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, n errors occurred while trying to send the log file to both the primary and secondary
	log collection servers.

5. Registering Addresses and Users for Facsimile Functions

This chapter describes how to register destinations and users in the Address Book. For details on how to access System Settings, see "Accessing User Tools".

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.



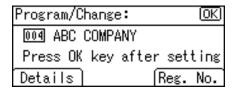
- Address Book data is stored on the hard disk. It can be lost if there is some kind of hard disk failure.
- The manufacturer shall not be held responsible for any damages resulting in data loss.

You can register and manage the following items in the Address Book:

Name

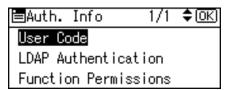
You can register the name of the user and the key display. This is the basic information required for managing users of the machine.

To register a fax number in the address book, you must register information such as the user name and destination name in advance.



Auth. Info

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 accessing an LDAP server.



Auth. Protect

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, fax header and select label insertion.



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.

Reference

• p.16 "Accessing User Tools"

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 and standard messages are printed on the fax message when it is received at the other end.

Reference

• p.199 "Fax Destination"

E

5

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.183 "Authentication Information"

Registering Names

Register user information including their names.

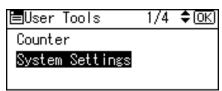
The user name is useful for selecting a destination when sending faxes.

You can register up to 150 names.

Registering Names

This section describes how to register names.

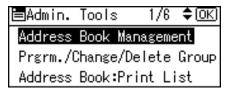
- 1. Press the [User Tools/Counter] key
- 2. Select [System Settings] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.



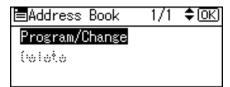
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.



4. Select [Address Book Management] using [▲] and [▼], and then press the [OK] key.

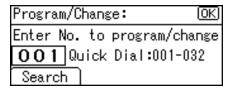


Select [Program/Change] using [▲] and [▼], and then press the [OK] key.



E

6. Enter the registration number you want to program using the number keys or the Quick Dial keys, and then press the [OK] key.



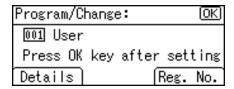
When you register a new Reg. No., currently available numbers are automatically displayed.

You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

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.

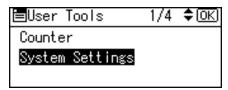


9. Press the [User Tools/Counter] key.

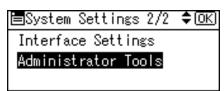
Changing a Registered Name

This section describes how to change a name.

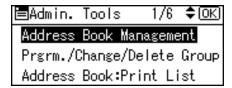
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] and [▼], and then press the [OK] key.



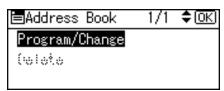
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ and $[^{\blacktriangledown}]$, and then press the [OK] key.



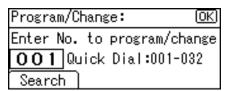
4. Select [Address Book Management] using [▲] and [▼], and then press the [OK] key.



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.

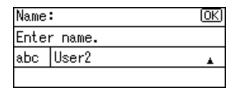


If you do not wish to change the registration number, proceed to the next step.

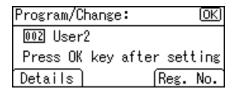
you can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, registration number, user code, fax number.

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



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.

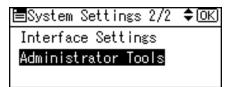
Deleting a Registered Name

This section describes how to delete a name.

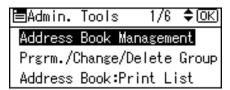
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] and [▼], and then press the [OK] key.



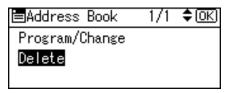
3. Select [Administrator Tools] using [▲] and [▼], and then press the [OK] key.



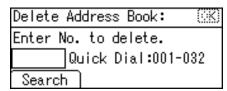
4. Select [Address Book Management] using [▲] and [▼], and then press the [OK] key.



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

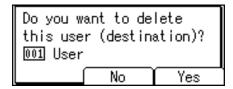


6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys. Press [Search] to search by name, destination list, registration number, user code, fax number.

7. Press [Yes].



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

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 50 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.32 "Administrator Tools"

Registering a User Code

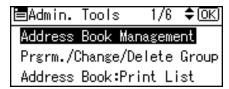
This section describes how to register a user code.

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

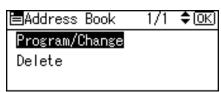




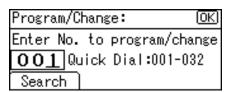
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



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



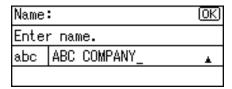
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial key.

Press [Search] to specify by name, destination list, registration number, user code, fax number.

7. Press the [OK] key.



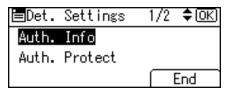
8. Press [Details].



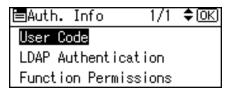
5

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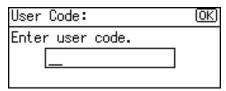
Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



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.



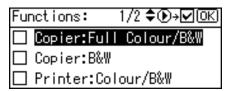
If you have entered a wrong code, press the [Clear/Stop] key and then enter the correct code again.

You can use up to eight digits for specifying the user code.

12. Select [Function Permissions] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.

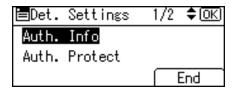


13. Select the function you want to set the user code for using [▶], and then press the [OK] key.



14. Press the [Escape] key.





- 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".

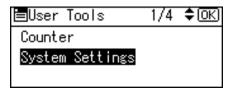
Reference

• p.178 "Registering Names"

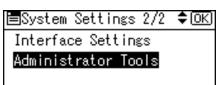
Changing a User Code

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

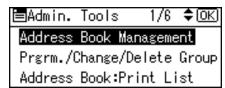


3. Select [Administrator Tools] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.

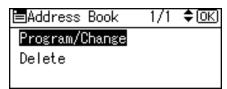


E

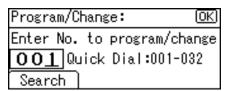
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



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



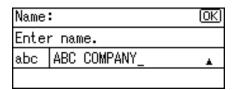
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



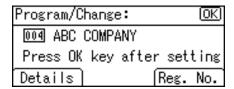
You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

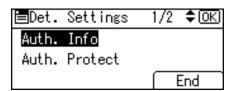
7. Press the [OK] key.



8. Press [Details].

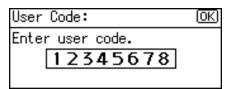


9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.

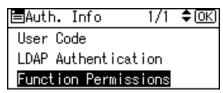




11. Enter the new user code using the number keys, and then Press the [OK] key.



12. Select permit Functions on Auth. using [▲] or [▼], and then press the [OK] key.

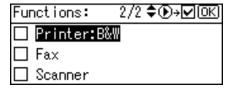


13. Check the registered function you want to change the user code for, and then press the [OK] key.

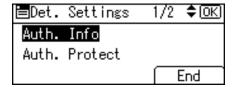
To select the check box, use $[^{\bullet}]$. To clear the check box, use $[^{\blacktriangleleft}]$.



14. Press the [Escape] key.



15. Press [End].



16. Press the [OK] key.

5

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



• To change the name, key display and title, see "Registering Names".



• p.178 "Registering Names"

Deleting a User Code

This section describes how to delete a user code.



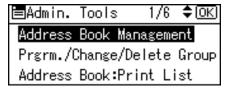
- After clearing the user code, the counter is automatically cleared.
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



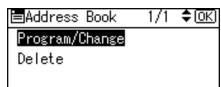
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



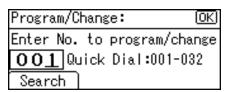
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



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



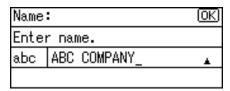
Enter the registration number you want to delete using the number keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

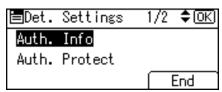
7. Press the [OK] key.



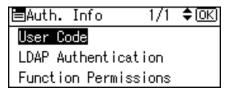
8. Press [Details].



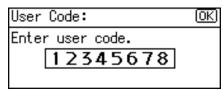
Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.



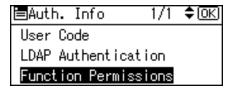
10. Select [User Code] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



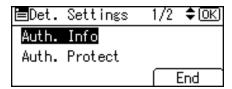
11. Press the [Clear/Stop] key to the user code, and then press the [OK] key.



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 Names".

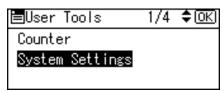
■ Reference

• p.178 "Registering Names"

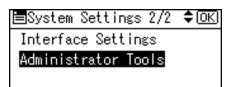
Displaying the Counter for Each User

This section describes how to display the counter for each user.

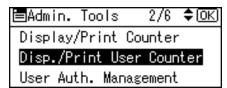
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



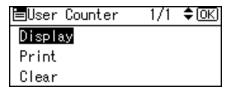
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



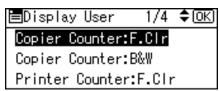
4. Press [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



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.

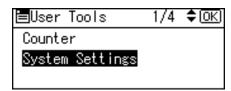
Printer:1-Clr:	1/3 💠	(OK)
0001 : [0]	
1234 : [0]	
12345678: [0]	

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

Printing the Counter for Each User

This section describes how to display the counter for each user.

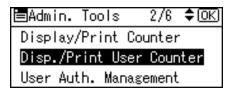
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



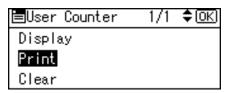
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



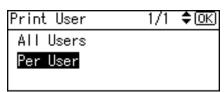
Press [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



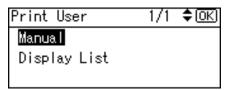
5. Select [Print] using [▲] or [▼], and then press the [OK] key.



6. Select [Per User] using [▲] or [▼], and then press the [OK] key.



7. Select the path destination procedure using [▲] or [▼], and then press the [OK] key.



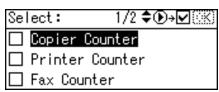
8. Select the user to print.

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 $[^{\blacktriangleright}]$ and then press the [OK] key.

Select the function you want to print the counter for using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



10. Press the [Start] key.



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

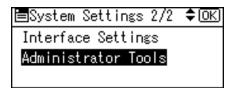
Printing the Counter for All Users

This section describes how to print the counter for all users.

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

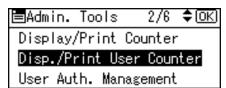


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

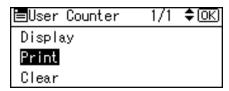


E

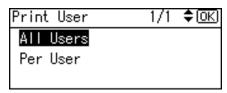
4. Select [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



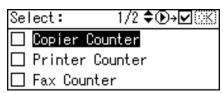
5. Select [Print] using [▲] or [▼], and then press the [OK] key.



6. Select [All Users] 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.



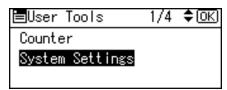
9. Press the [User Tools/Counter] key.

Clearing the Number of Prints

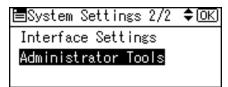
This section describes how to clear the counter.

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

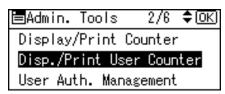
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



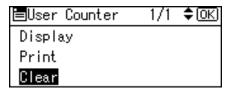
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



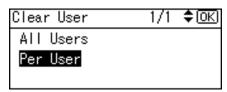
4. Select [Disp./Print User Counter] using [▲] or [▼], and then press the [OK] key.



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



6. Select [Per User] using [▲] or [▼], and then press the [OK] key.

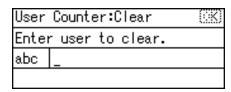


7. Select the path destination procedure using [A] or [V], and then press the [OK] key.

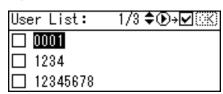


8. Select the user to clear.

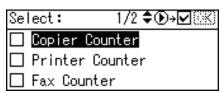
If you select Manual in step 7, enter the user code and then press the [OK] key.



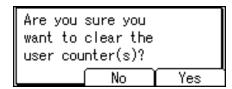
If you select Display Destination List in step 7, confirm the user code using $[^{\triangleright}]$ and then press the [OK] key.



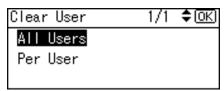
Select the function you want to clear the counter for using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



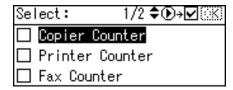
10. Press [Yes].



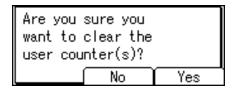
If you want to clear the counter for all users, select [All Users] using [▲] or [▼], and then
press the [OK] key.



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. For details about registering a group, see "Registering
 a Group".
- You can register fax destinations by selecting them from redial function.
- Registered Fax numbers can be used as sender's Fax numbers.

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 "Setting SUB Codes for Transmission", 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 "Setting SEP Codes for Reception", 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:

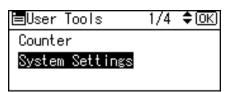
Destination Name

The destination name specified in [Fax Destination] is printed with "To" before it at the top of the sheet.

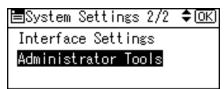
Registering a Fax Destination

This section describes how to register a fax destination.

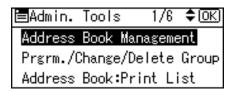
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



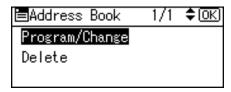
3. Select [Administrator Tools] using [A] or [V], and then press the [OK] key.



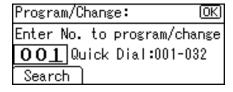
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



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



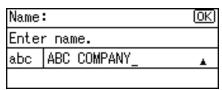
6. Enter the registration number you want to program using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

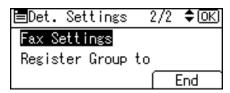
7. Press the [OK] key.



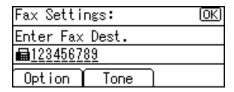
8. Press [Details].



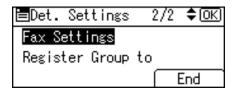
9. Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Enter the fax number using the number keys.



- Press Option to specify optional settings such as SUB Code, SEP Code, and International TX Mode.
- 12. Press [End].



- 13. Press the [OK] key.
- 14. Press the [User Tools/Counter] key.



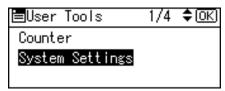
- To register the name, see "Registering Names".
- When a group is registered, you can also add this fax destination to the group. For details about registering groups, see "Registering Names to a Group".

- p.178 "Registering Names"
- p.211 "Registering Names to a Group"

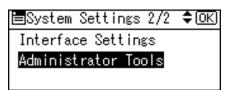
Changing a Fax Destination

This section describes how to change a registered fax destination.

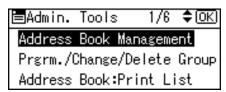
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



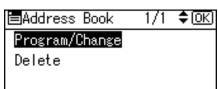
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.

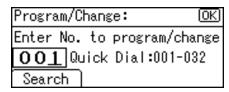


5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



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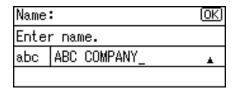
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

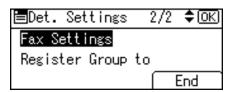
7. Press the [OK] key.



8. Press [Details].



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



- 10. Enter again the item to be changed, and then press the [OK] key.
- 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".

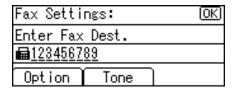


• p.178 "Registering Names"

To change the fax number

This section describes how to change the fax number.

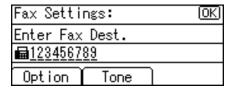
1. Enter the new fax number using the number keys, and then press the [OK] key.



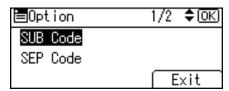
To program the SUB Code

This section describes how to program the SUB Code.

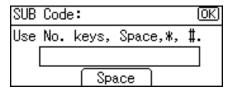
1. Press [Option].



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

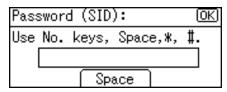


3. Enter the SUB Code using the number keys and then press the [OK] key.

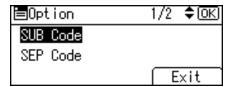


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4. Enter the password using the number keys and then press the [OK] key.



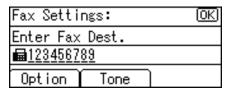
5. Press [Exit].



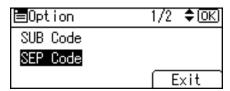
To program the SEP Code

This section describes how to program the SEP Code.

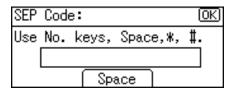
1. Press [Option].



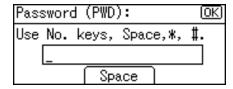
2. Select [SEP Code] using [▲] or [▼], and then press the [OK] key.



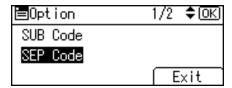
3. Enter the SEP Code using the number keys and then press the [OK] key.



4. Enter the password using the number keys and then press the [OK] key.



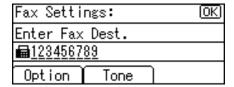
5. Press [Exit].



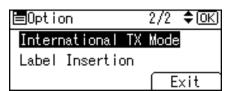
To set the International TX Mode

This section describes how to set the International TX Mode.

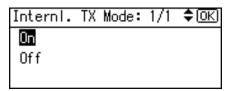
1. Press [Option].



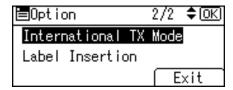
Select [International TX Mode] using [▲] or [▼], and then press the [OK] key.



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



4. Press [Exit].

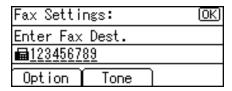


To set label insertion

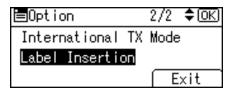
This section describes how to set label insertion.

When Label Insertion is set to ON, the receiver's name and standard messages are printed on the fax message when it is received at the other end.

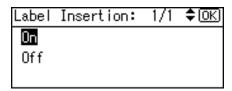
1. Press [Option].



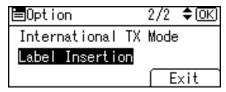
2. Select [Label Insertion] using [▲] or [▼], and then press the [OK] key.



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



4. Press [Exit].





• To change the name, key display and title, see "Registering Names".

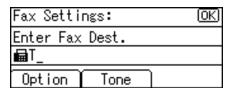


• p.178 "Registering Names"

Using the tone

This function allows the machine to send total 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].



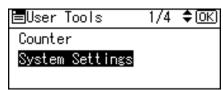
A tone is shown as a T on the display.

Deleting a Fax Destination

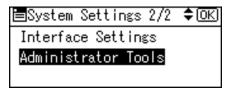
This section describes how to delete a registered fax destination.



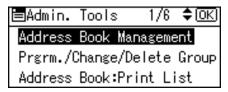
- If you delete a destination that is a specified delivery destination, messages to its registered Personal Box, for example, cannot be delivered. Be sure to check the settings in the fax function before deleting any destinations.
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



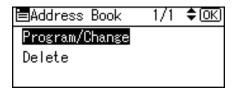
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.

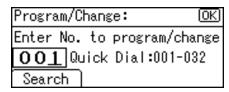


5. Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



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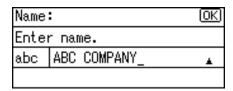
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

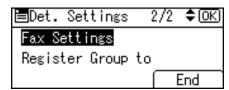
7. Press the [OK] key.



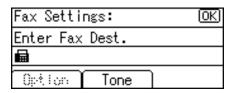
8. Press [Details].



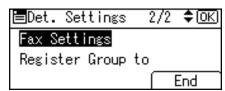
9. Select [Fax Settings] using [▲] or [▼], and then press the [OK] key.



10. Press the [Clear/Stop] key to delete the fax number, then press the [OK] key.



11. Press [End].





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



• To delete the name, key display, and title, see "Registering Names".

■ Reference

• p.178 "Registering Names"

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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.



• The maximum number of group is 10.



You can set a protection code to prevent unauthorized access to the folders registered in a group.
 For details, see "Registering a Protection Code".

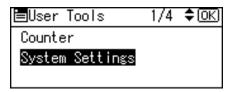
■ Reference

• p.226 "Registering a Protection Code"

Registering a Group

This section describes how to register a group.

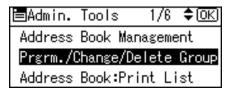
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



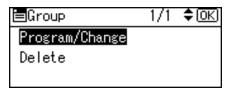
Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



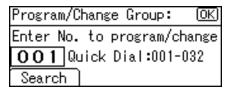
4. Press [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



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



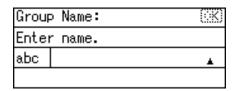
6. Enter the registration number you want to program using the number keys or the Quick Dial keys, and then press the [OK] key.



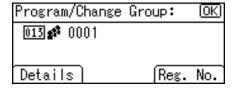
You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, or registration number.

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.

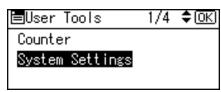
You can put names that have been registered in the Address Book into a group.

When registering new names, you can also register groups at the same time.

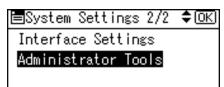
1. Press the [User Tools/Counter] key.

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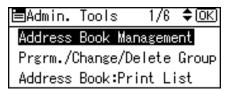
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



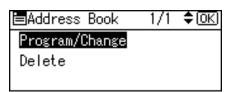
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



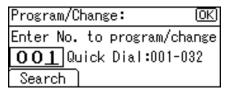
4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



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



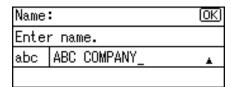
6. Enter the registration number you want to change using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

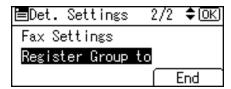
Press Search to search by name, destination list, or registration number.

7. Press the [OK] key.





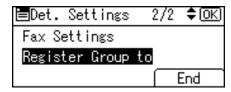
9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.



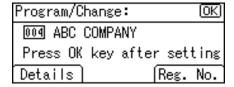
10. Select the group name to which you want to register using [▶], and then press the [OK] key.



11. Press [End].



12. Press the [OK] key.



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

Adding a Group to Another Group

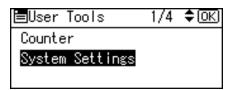
This section describes how to add a group to another group.

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

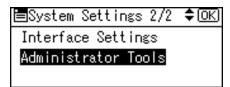
F

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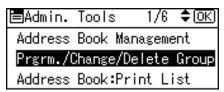
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



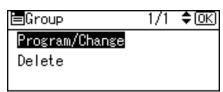
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



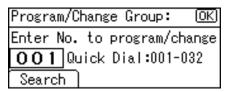
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



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



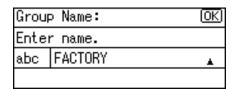
6. Enter the registration number of the group that you want to put into another group using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001 - 032 by pressing the Quick Dial keys.

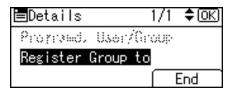
Press [Search] to search by name, destination list, or registration number.

7. Press the [OK] key.

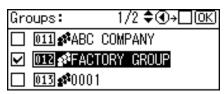




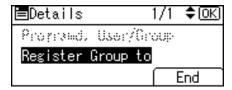
9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.



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.

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.

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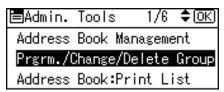
2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



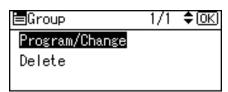
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



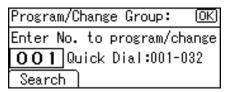
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



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



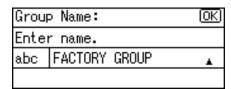
6. Enter the registration number you want to display using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

Press Search to search by name, destination list, or registration number.

7. Press the [OK] key.





9. Select [Programd. User/Group] using [▲] or [▼], and then press the [OK] key.

All the names registered will be displayed.

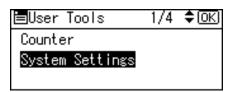


10. Press the [User Tools/Counter] key.

Removing a Name from a Group

This section describes how to remove a name from a group.

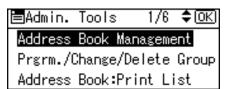
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



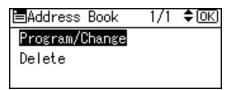
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



4. Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.

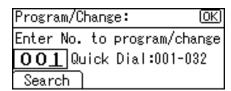


Select [Program/Change] using [▲] or [▼], and then press the [OK] key.



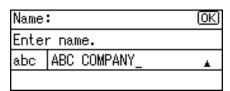
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.

Press the key of the user to be deleted or enter the registration number from the number keys.

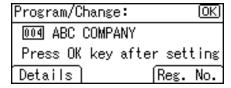


You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys. Press [Search] to search by name, destination list, or registration number.

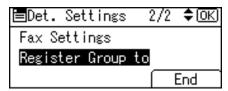
7. Press the [OK] key.

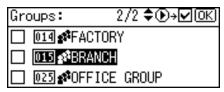


8. Press [Details].

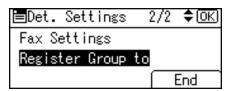


9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.





11. Press [End].



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

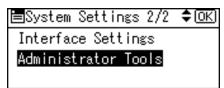
Deleting a Group Within Another Group

This section describes how to delete a group within another group.

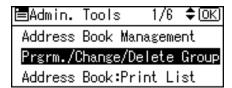
- 1. Press the [User Tools/Counter] key.
- Select [System Settings] using [▲] or [▼], and then press the [OK] key.



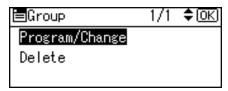
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



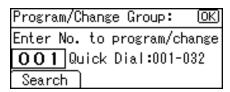
4. Select [Prgrm./Change/Delete Group].



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



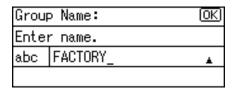
6. Enter the registration number of the group that you want to delete from using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, or registration number.

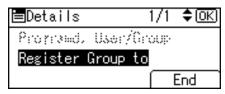
7. Press the [OK] key.



8. Press [Details].

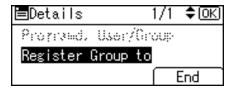


9. Select [Register Group to] using [▲] or [▼], and then press the [OK] key.





11. Press [End].



12. Press the [OK] key.

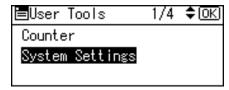


13. Press the [User Tools/Counter] key.

Changing a Group Name

This section describes how to change a group name.

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

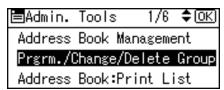


3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.

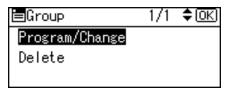


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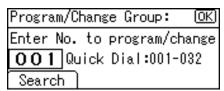
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



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



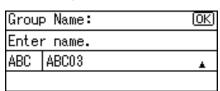
6. Enter the registration number you want change using the number keys and the Quick Dial keys, and then press the [OK] key.



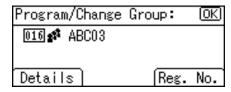
You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

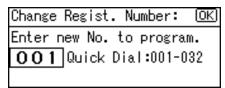
Press [Search] to search by name, destination list, or registration number.

7. Enter the new group name using the number keys and the Quick Dial keys, and then press the [OK] key.

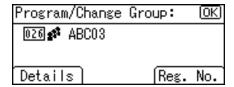


8. To change the registration number, press [Reg. No.].





10. Press the [OK] key.



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

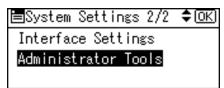
Deleting a Group

This section describes how to delete a group.

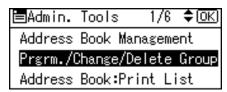
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



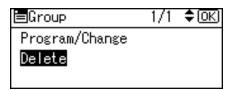
3. Select [Administrator Tools] using [▲] or [▼], and then press the [OK] key.



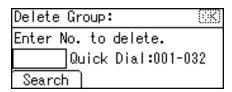
4. Select [Prgrm./Change/Delete Group] using [▲] or [▼], and then press the [OK] key.



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



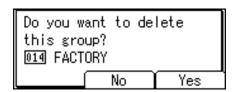
6. Enter the registration number you want to delete using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

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 being accessed by setting a protection code.

You can use this function to protect the following:

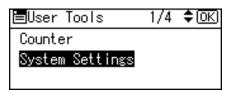
Sender's names

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.

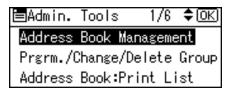
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



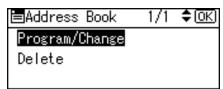
3. Select [Administrator Tools] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



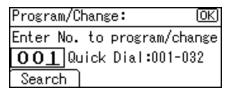
4. Select [Address Book Management] using $[^{\blacktriangle}]$ or $[^{\blacktriangledown}]$, and then press the [OK] key.



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



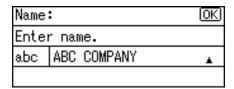
6. Enter the registration number you want to protect using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

Press Search to search by name, destination list, registration number, user code, or fax number.

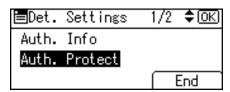
7. Press the [OK] key.



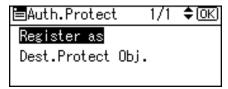
8. Press [Details].



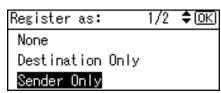
9. Select [Auth. Protect] using [▲] or [▼], and then press the [OK] key.

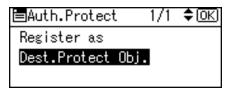


10. Select [Register as] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.

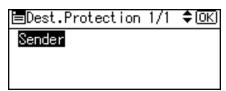


11. Select [Sender Only], or [Dest. & Sender] using [▲] or [▼], and then press the [OK] key.

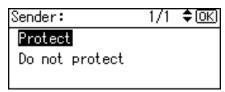




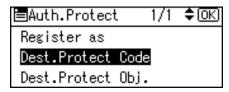
13. Select [Sender] using [▲] or [▼], and then press the [OK] key.



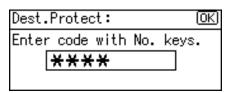
14. Select [Protect] or [Do not protect] using [▲] or [▼], and then press the [OK] key.



- 15. Press the [Escape] key.
- 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.

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• To change the protection code settings, repeat step 3 to 20.

Registering LDAP Authentication

This section describes how to register LDAP Authentication.

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.

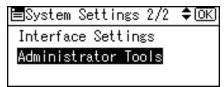
To use an LDAP server, you need to program it beforehand. For details, see "Programming the LDAP server".



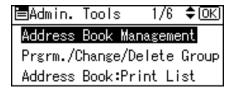
- When [Do not Specify] is selected for LDAP Authentication, the User Name and Password that you
 have specified in Program / Change LDAP Server of Administrator Tools settings applies. For details,
 see "Programming the LDAP server".
- 1. Press the [User Tools/Counter] key.
- 2. Select [System Settings] using [▲] or [▼], and then press the [OK] key.



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



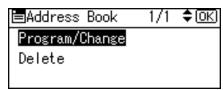
Select [Address Book Management] using [▲] or [▼], and then press the [OK] key.



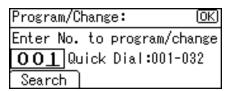
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5. Select [Program/Change] using [$^{\blacktriangle}$] or [$^{\blacktriangledown}$], and then press the [OK] key.



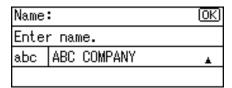
6. Enter the registration number you want to register using the number keys or the Quick Dial keys, and then press the [OK] key.



You can automatically specify registration numbers 001-032 by pressing the Quick Dial keys.

Press [Search] to search by name, destination list, registration number, user code, or fax number.

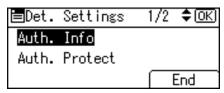
7. Press the [OK] key.



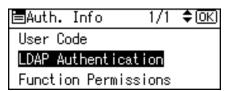
8. Press [Details].



9. Select [Auth. Info] using [▲] or [▼], and then press the [OK] key.

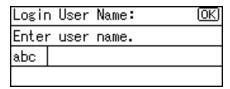


10. Select [LDAP Authentication] using [▲] or [▼], and then press the [OK] key.





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:	(OK)
Pleas	se re-enter password	d.
abc	_	

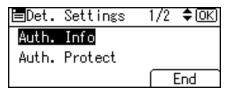
16. Enter the [Escape] key twice.



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17. Press [End].



18. Press the [OK] key.



19. 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 17.

Reference

- p.38 "Programming the LDAP server"
- p.178 "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".

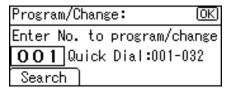


• p.178 "Registering Names"

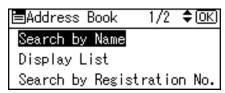
Searching by Name

Search the address book using a destination or user name.

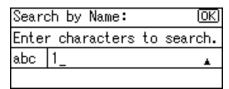
1. Press [Search].



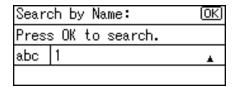
Select [Search by Name] using [▲] or [▼], and then press the [OK] key.



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.

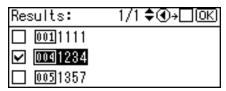


4. Press the [OK] key.



The search results appear.

5. Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.



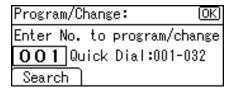


For details about entering text, see "Entering Text", About This Machine.

Searching from the Display List

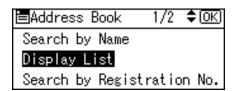
Search the address book by displaying a list of registered user names and destinations.

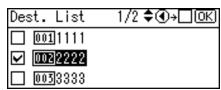
1. Press [Search].



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

The list of registered user names or destination names appears.





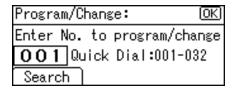


• For details about entering text, see "Entering Text", About This Machine.

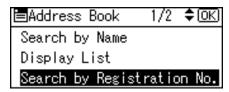
Searching by Registration Number

Search the address book using the registration number of a user destination.

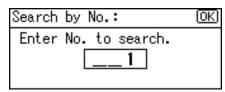
1. Press [Search].



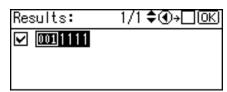
2. Select [Search by Registration No.] using [▲] or [▼], and then press the [OK] key.



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.

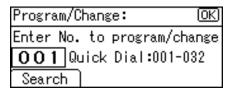


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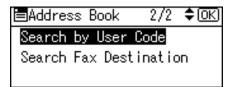
Searching by User Code

Search the address book using the registered user codes.

1. Press [Search].

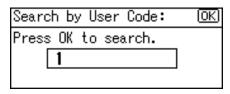


2. Select [Search by User Code] using [▲] or [▼], and then press the [OK] key.

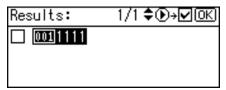


- 3. Enter the user code you want to search using the number keys, and then press the [OK] key.
- 4. Press the [OK] key.

The search results appear.

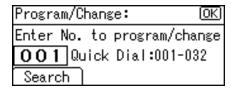


Select the name using [▲] or [▼], then confirm it by pressing [▶], and then press the [OK] key.

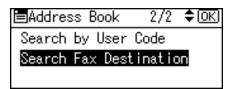


Searching by Fax Number

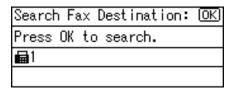
Search the address book using the registered fax numbers.



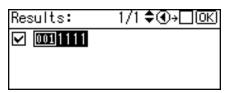
2. Select [Search Fax Destination] using [▲] or [▼], and then press the [OK] key.



- 3. Enter the fax number you want to search using the number keys, and then press the [OK] key.
- 4. Press the [OK] key.



- 5. 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.



• For details about setting the IPv4 address of the printer using DHCP, see "Using DHCP".

Reference

• p.247 "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]

UNote

- Match the data format of the file to be printed with the emulation mode of the printer.
- The "rcp" command cannot be used under Windows Vista and Windows Server 2008.
- 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\file name

When using a host name instead of an IP address

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

rcp

First, register the printer's host name in the hosts file.

c:> rcp [-b] \path\file name [path\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

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

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\file name [option]

Printing from the virtual printer

ftp> put \path\file name [virtual printer name]

When multiple files are printed

ftp> mput \path\file name [\path\file name...] [option]

Follow the procedure below to print using the "ftp" command.

 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



• "=", ", ", "=", 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.

7. Appendix

When Using Windows Terminal Service/Citrix Presentation Server

The following explains how to use Windows Terminal Service and Citrix Presentation Server.

Operating Environment

The following operating systems and MetaFrame versions are supported.

Windows 2000 Server/Advanced Server

Citrix Presentation Server 4.0/4.5

Windows server 2003/2003 R2

Citrix Presentation Server 4.0/4.5

Supported Printer Drivers

When Windows Terminal Service is operating

- PCL drivers
- RPCS drivers



Some RPCS printer driver functions do not work if Windows Terminal Service is installed.

Limitations

The following limitations apply to the Windows Terminal Service environment.

These limitations are built in Windows Terminal Service or Citrix Presentation Server.

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 guit the install mode, enter the following command in the MS-DOS command prompt:

CHANGE USER /EXECUTE

Citrix Presentation Server [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 [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 R2/2008, and the DHCP server included with NetWare.
- 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.

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], and then click [Network].
- 6. Click [TCP/IP].
- 7. Check that [Enable] is selected for [WINS] in the [Ethernet] column, and then enter the WINS server IPv4 address in [Primary WINS Server] and [Secondary WINS Server].
- 8. Click [Apply].
- 9. Quit Web Image Monitor.



• p.79 "Using Web Image Monitor"

Using telnet

You can also use telnet to configure WINS.

Make setting with telnet using the "wins" command.



• p.109 "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

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

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.109 "Remote Maintenance by telnet"

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Precautions

Please pay attention to the following when using the network interface board. When configuration is necessary, follow the appropriate procedures below.

Connecting a Dial-Up Router to a Network

When 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.



- 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.27 "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.27 "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.
- IPX/SPX (NetWare) cannot be used under Windows Vista and Windows Server 2008.

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.

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 Under Windows 2000/XP and Windows Server 2003/2003 R2, 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, 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.

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, EAPTTLS 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.
- 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.

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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.
- 9. 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].
- Using a text editor, open the CA signified certificate downloaded in step 11, and then copy over all the text.
- 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.



- 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].

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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.

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 [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.

Specifications

Interface	100BASE-TX, 10BASE-T
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)
	RHPP
Network Scanner	IPv4/IPv6
	FTP
	FTP-C
	SMTP
	SMTP-C
	POP3
	SMB
	NCP

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, Windows Server 2003/2003 R2/2008, use the Standard IPP port.

To use IPP under Windows 2000, use SmartDeviceMonitor for Client.

Under Windows Vista, or Windows Server 2008, WSD (Printer) uses the WSD Port.

Only the rsh/rcp commands in the Unix OS standard command set are supported.

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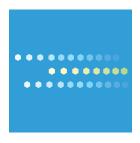
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