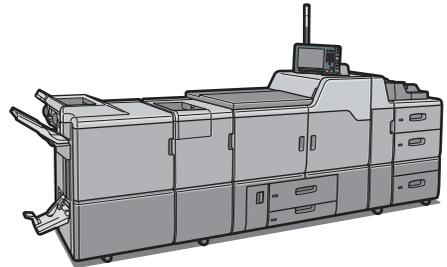




Pro C751

Operating Instructions Network and System Settings Reference



-
- 1 System Settings
 - 2 Connecting the Machine
 - 3 Monitoring and Configuring the Machine
 - 4 Registering Users
 - 5 Adjustment Settings for Operators
 - 6 Appendix

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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.

★ Important

- 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 HTML manuals from the CD-ROMs provided, and how to replace paper, toner, staples, and other consumables.

Troubleshooting

Provides a guide for resolving common usage-related problems.

Network and System Settings Reference

Explains how to connect the machine to a network and how to configure and operate the machine in a network environment. It also explains how to change System Settings, how to specify Adjustment Settings for Operators, and how to register information in the Address Book.

Paper Settings Reference

Explains how to make paper settings for each tray using the paper library, which contains optimum printing conditions. It also explains how to manually specify a paper size and type for a paper tray.

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.

Guide to Paper

Explains paper characteristics and methods for handling paper.

↓ Note

- Manuals provided are specific to machine types.
- In addition to the above, manuals are also provided for the Printer function.

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 print quality, the manufacturer recommends that you use genuine toner from the manufacturer.

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

How to Read This Manual

Symbols

This manual uses the following symbols:

 **Important**

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.

 **Note**

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

 **Reference**

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

[]

Indicates the names of keys on the machine's display or control panels.

 **Region A** (mainly Europe and Asia)

 **Region B** (mainly North America)

Differences in the functions of Region A and Region B models are indicated by two symbols. Read the information indicated by the symbol that corresponds to the region of the model you are using. For details about which symbol corresponds to the model you are using, see p.12 "Model-Specific Information".

Names of Major Items

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

- Multi-Folding Unit FD5010 (optional) → Multi-folding unit
- High Capacity Stacker SK5020 (optional) → High capacity stacker

Notes

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

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.

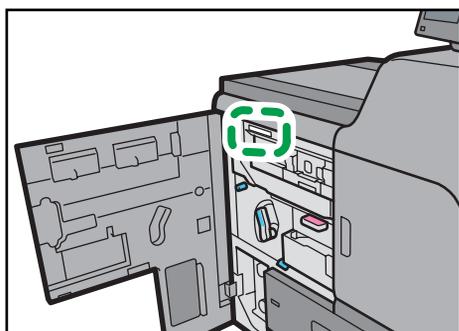
About IP Address

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

Model-Specific Information

This section explains how you can identify the region your machine belongs to.

The image below shows a label that is located behind the front left cover on the inside of the machine. The label contains details that identify the region your machine belongs to. Read the label.



CWEB19

The following information is region-specific. Read the information under the symbol that corresponds to the region of your machine.

 **Region A** (mainly Europe and Asia)

If the label contains the following, your machine is a region A model:

- CODE XXXX -27
- 220-240V

 **Region B** (mainly North America)

If the label contains the following, your machine is a region B model:

- CODE XXXX -17
- 208-240V

Note

- Dimensions in this manual are given in two units of measure: metric and inch. If your machine is a Region A model, refer to the metric units. If your machine is a Region B model, refer to the inch units.

Display Panel

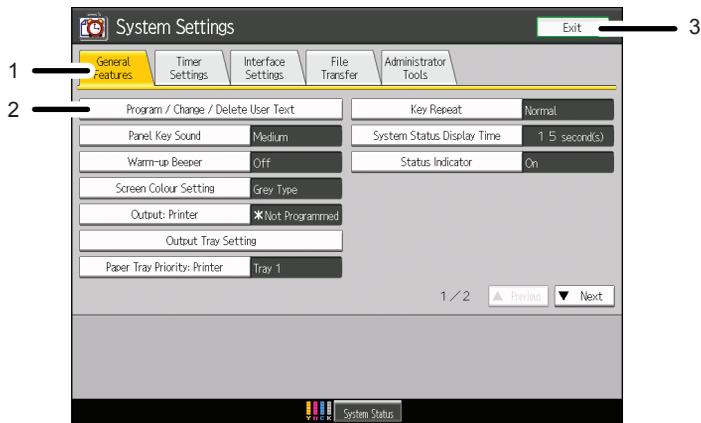
The display panel shows machine status, error messages, and function menus.

The function items displayed serve as selector keys. You can select or specify an item by lightly pressing it.

When you select or specify an item on the display panel, it is highlighted like **Program / Change**. Keys appearing as **OK** cannot be used.

To display the following screen, press the [User Tools] key to display the User Tools menu, 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.



CWE009

1. The menu tabs for various settings appear. To display the setting you want to specify or change, press the appropriate menu tab.
2. A list of settings appears. To specify or change a setting, press the appropriate key in the list.
3. Press this to quit the User Tools menu.

Accessing User Tools

User Tools allow you to change or set defaults.

↓ Note

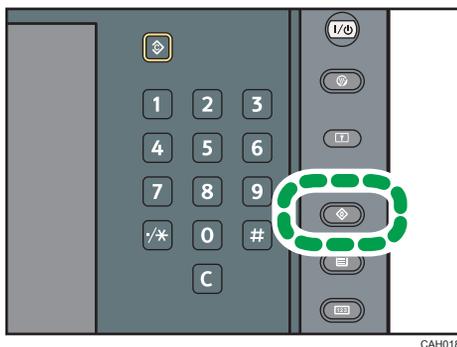
- Operations for system settings differ from normal operations. Always quit User Tools when you have finished.
- Any changes you make with User Tools remain in effect even if the main power switch or operation switch is turned off, or the [Energy Saver] or [Clear Modes] key is pressed.

Changing Default Settings

★ Important

- If Administrator Authentication Management is specified, contact your administrator.

1. Press the [User Tools] key.



2. Press [System Settings].

3. Select the user tool you want to change.

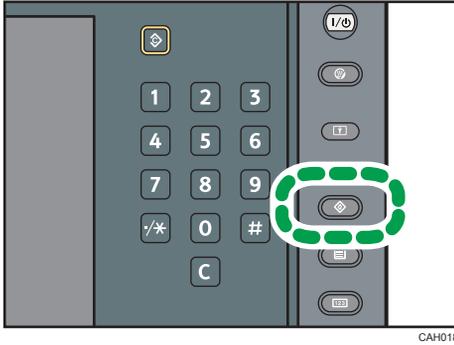
4. Change settings by following instructions on the display, and then press [OK].

↓ Note

- For details about specifying System Settings, see p.17 "System Settings".
- For details about changing the language, see "Changing the Display Language", About This Machine.
- For details about checking inquiry and counter, see "Remarks", About This Machine.

Quitting User Tools

1. Press the [User Tools] key.



CAH018

↓ Note

- You can also quit User Tools by pressing [Exit].



1. System Settings

This chapter describes user tools in the System Settings menu.

General Features

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

Program / Change / Delete 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] key.
 2. Press [System Settings].
 3. Check that [General Features] is selected.
 4. Press [Program / Change / Delete User Text].
 5. Check that [Program / Change] is selected.
 6. Select the user text you want to change.
 - To program new user text, press [*Not Programmed].
 7. Enter the user text, and then press [OK].
 - Enter the user text using up to 80 characters.
 8. Press [Exit].
 9. Press the [User Tools] key.
- Delete
 1. Press the [User Tools] key.
 2. Press [System Settings].
 3. Check that [General Features] is selected.
 4. Press [Program / Change / Delete User Text].
 5. Press [Delete].
 6. Select the user text you want to delete.
 7. Press [Yes].
 8. Press [Exit].
 9. Press the [User Tools] key.

Panel Key Sound

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

Default: [Medium]

Warm-up Beeper

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

Default: [On]

If the Panel Key Sound setting is [Off], the beeper does not sound, whatever the Warm-up Beeper setting.

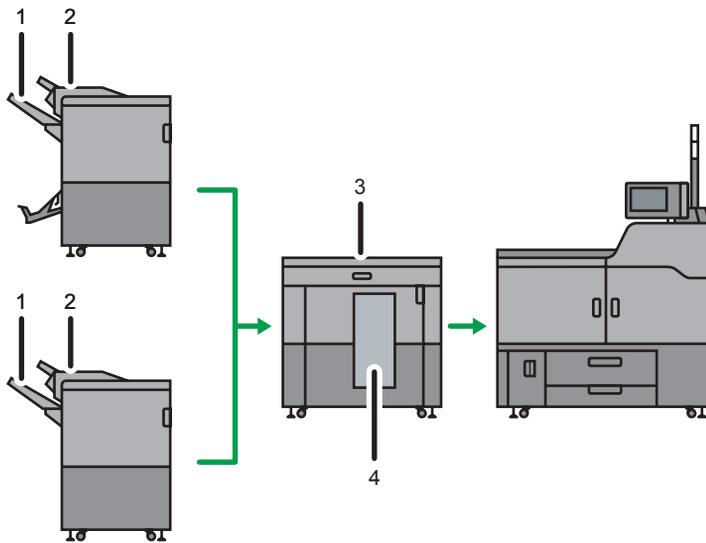
Screen Colour Setting

You can select the screen color among from five types.

Default: [Grey Type]

Output: Printer

Specify a tray to which documents are delivered.



CWE004

1. Finisher Shift Tray
2. Finisher Upper Tray
3. Stacker Upper Tray
4. Stacker Tray

Default: [Finisher Upper Tray]

Output Tray Setting

- Multi-job Output Method to Stacker

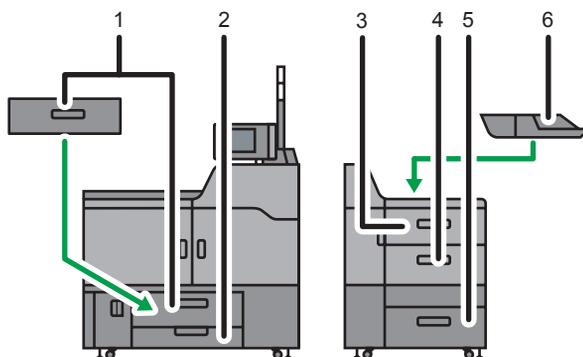
This setting appears only when high capacity stacker is attached to the machine.

- Stack Jobs
- Do not Stack jobs

Default: [Stack Jobs]

Paper Tray Priority: Printer

Specify the tray to supply paper for output.



CWE006

1. Tray 1
2. Tray 2
3. Tray 3
4. Tray 4
5. Tray 5
6. Tray 6

Default: [Tray 1]

Key Repeat

You can enable or disable repetition of an operation if a key on the screen or control panel is pressed continuously.

Default: [Normal]

System Status Display Time

Specify how long to display the System Status for.

Default: [On], [15 second(s)]

By selecting [On], you can specify a display time between 10 and 999 seconds.

Status Indicator

You can specify whether the status indicator shows the machine status or not.

Default: [On]

Z-fold Position

If you specify Z-folding, set the fold-back position in 1 mm (0.04 inch) increments. The setting ranges of the folding position for each paper size are shown below:

- A3: 2 - 25 mm (0.08 - 1.00 inch)
- B4 JIS: 2 - 17 mm (0.08 - 0.68 inch)
- A4: 2 - 17 mm (0.08 - 0.68 inch)
- 11 × 17: 2 - 20 mm (0.08 - 0.80 inch)
- 8 1/2 × 14: 2 - 17 mm (0.08 - 0.68 inch)
- 8 1/2 × 11: 2 - 17 mm (0.08 - 0.68 inch)
- Others: 2 - 17 mm (0.08 - 0.68 inch)

Default: [2 mm]/[0.08 inch]

This setting appears only when the multi-folding unit is installed.

Half Fold Position

If you specify half folding, set the fold-back position in 1 mm (0.04 inch) increments. Specify this separately for single-sheet fold and multi-sheet fold. You can adjust the position to between -10 and +10 mm. (-0.40 and +0.40 inch).

Default: [0 mm]/[0.00 inch]

This setting appears only when the multi-folding unit is installed.

Letter Fold-out Position

If you specify letter fold-out folding, set the fold-back position in 1 mm (0.04 inch) increments. Specify this for single-sheet fold. It is not possible to apply multi-sheet fold. You can adjust the position to between -10 and +10 mm. (-0.40 and +0.40 inch).

Default: [4 mm]/[0.16 inch]

This setting appears only when the multi-folding unit is installed.

Letter Fold-in Position

If you specify letter fold-in folding, set the fold-back position in 1 mm (0.04 inch) increments. Specify this separately for single-sheet fold and multi-sheet fold. You can adjust the position to between 2 and 7 mm (0.08 and 0.28 inch).

Default: [4 mm]/[0.16 inch]

This setting appears only when the multi-folding unit is installed.

Double Parallel Fold Position

If you specify double parallel folding, set the fold-back position in 1 mm (0.04 inch) increments. You can adjust the position to between -10 and +10 mm. (-0.40 and +0.40 inch).

Default: [0 mm]/[0.00 inch]

This setting appears only when the multi-folding unit is installed.

Gate Fold Position

If you specify gate folding, set the fold-back position in 1 mm (0.04 inch) increments. You can adjust the position to between 2 and 12 mm (0.08 and 0.48 inch).

Default: **[4 mm]/[0.16 inch]**

This setting appears only when the multi-folding unit is installed.

Note

- For details on how to access System Settings, see p.14 "Accessing User Tools".

Timer Settings

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

1

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.

You can specify this setting only if [Auto Off Setting] is set to [On] in [Administrator Tools] in [System Settings].

Default: [60 minute(s)]

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

Auto Off Timer may not work when error messages appear.

Energy Saver Timer

Set the amount of time the machine waits before switching to lower-power mode after copying has finished or the last operation is performed.

Default: [15 minute(s)]

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

Energy Saver Timer 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.

Default: [On], [1 min. 0 sec.]

Panel Off Timer may not work when error messages appear.

System Auto Reset Timer

Set the amount of time the machine waits before automatically switching the screen to the printer function when no operations are in progress.

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

Default: [On], [60 second(s)]

Set Date

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

To change between year, month, and day, press [←] and [→].

Set Time

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

To change between hours, minutes and seconds, press [←] and [→].

 **Region A** (mainly Europe and Asia)

Enter the time using the 24-hour format (in 1 second increments).

 **Region B** (mainly North America)

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

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.

Default: [On], [180 second(s)]

Weekly Timer Code

Set a password (using not more than eight digits) for turning on the power during the time periods when "Weekly Timer" turns off the machine's power.

In order to make this setting, administrator authentication must be enabled. For details, consult your administrator.

Default: [Off]

If you have selected "On", enter the password.

When you select "On", you cannot use the machine even if you turn the power switch to "On", unless you enter the password.

If you select "Off", you do not have to enter a password to switch on the machine, you need only turn the power switch to "On".

Weekly Timer: Monday - Sunday

Set the daily time when the power is switched on/off.

- Power On Time
- Power Off Time

 **Region A** (mainly Europe and Asia)

Enter the time using the 24-hour system.

 **Region B** (mainly North America)

Enter the time using the 12-hour system.

Enter the "hour" and "minute" using the number keys.

Note

- For details on how to access System Settings, see p.14 "Accessing User Tools".

Interface Settings

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

1

Network

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

Machine IPv4 Address

Specify the machine's IPv4 network address.

Default: [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.

Default: [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 Configuration 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 Address Autoconfiguration

Specify IPv6 Stateless Address Autoconfiguration.

Default: [Active]

DNS Configuration

Make settings for the DNS server.

Default: **[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.

Default: **[Active]**

IPsec

Specify the machine's IPsec function Active/Inactive.

Default: **[Inactive]**

For details about this function, consult your administrator.

Domain Name

Specify the domain name.

Default: **[Auto-Obtain (DHCP)]**

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

WINS Configuration

Specify the WINS server settings.

Default: **[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.

Do not enter "255.255.255.255" as the primary or secondary WINS server address.

Effective Protocol

Select the Protocol to use in the network.

Default for "IPv4": **[Active]**

Default for "IPv6": **[Inactive]**

Default for "SMB": **[Active]**

SMB Computer Name

Specify the SMB computer name.

Enter the computer name using up to 15 characters.

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

Do not enter 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.

1

Ethernet Speed

Set the access speed for networks.

Default: [Auto Select]

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

		Machine Setting				
		10Mbps Half Duplex	10Mbps Full Duplex	100Mbps Half Duplex	100Mbps Full Duplex	Auto Select
Connection	10Mbps Half Duplex	○	—	—	—	○
	10Mbps Full Duplex	—	○	—	—	—
	100Mbps Half Duplex	—	—	○	—	○
	100Mbps Full Duplex	—	—	—	○	—
	Auto Select*	○	—	○	—	○

*Terms will vary depending on the network.

- Connectable
- Not Connectable

BZU022

Ping Command

Check the network connection with ping command using the 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 device with assigned IPv4 address is connected to the network.
- Check that the IPv4 address assigned to the device is not already being used by another device on the network.

Permit SNMPv3 Communication

Set the encrypted communication of SNMPv3.

Default: [Encryption / Cleartext]

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

Permit SSL / TLS Communication

Set the encrypted communication of SSL/TLS.

Default: [Ciphertext Priority]

If you select [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.

You cannot enter a host name starting or ending with a hyphen.

You cannot enter a host name starting with "RNP" or "rnp".

Machine Name

Specify the machine name.

Enter the machine name using up to 31 characters.

IEEE 802.1X Authentication for Ethernet

Specify the IEEE 802.1X authentication for Ethernet.

Default: [Inactive]

For details about IEEE 802.1X authentication, see p.162 "Configuring IEEE 802.1X".

Restore IEEE 802.1X Authentication to Defaults

You can reset the IEEE 802.1X authentication settings to their defaults.

For details about IEEE 802.1X authentication, see p.162 "Configuring IEEE 802.1X".

↓ Note

- For details on how to access System Settings, see p.14 "Accessing User Tools".

Print List

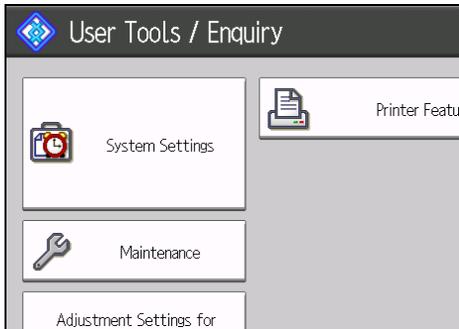
This section describes how to print the configuration page.

You can check items related to the network environment.

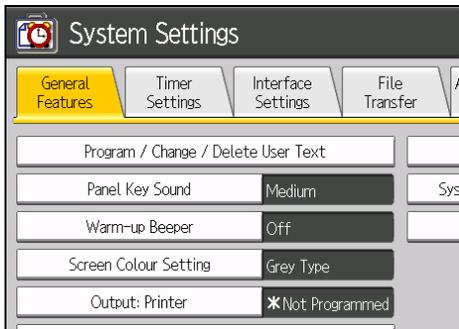
The configuration page shows the current network settings and network information.

1. Press the [User Tools] key.

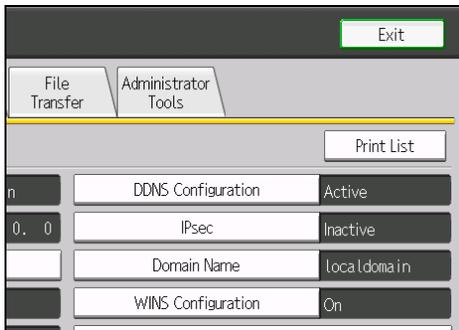
2. Press [System Settings].



3. Press [Interface Settings].



4. Press [Print List].



5. Press the [Start] key.

The configuration page is printed.

6. Press [Exit].

7. Press the [User Tools] key.

File Transfer

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

SMTP Server

Specify the SMTP server name.

If DNS is in use, enter the host name.

If DNS is not in use, enter the SMTP server IPv4 address.

Default for "Port No.": [25]

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

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

SMTP Authentication

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

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

Default: [Off]

- User Name

Enter the user name using up to 191 characters.

Spaces cannot be entered. Depending on the SMTP server type, "realm" must be specified.

Add "@" after the user name, as in "user name@realm".

- E-mail Address

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

- Password

Enter the password using up to 128 characters.

Spaces cannot be entered.

- Encryption

Select Encryption as follows:

[Auto]

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

[On]

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

[Off]

Use if the authentication method is PLAIN, or LOGIN.

POP before SMTP

Specify POP authentication (POP before SMTP).

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

Default: [Off]

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

- Wait Time after Authent.

Default: [300 msec.]

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

- User Name

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

- E-mail Address

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

- Password

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

To enable POP server authentication before sending e-mail via the SMTP server, set [POP before SMTP] to [On]. E-mail is sent to the SMTP server after the time specified for [Wait Time after Authent.] has elapsed.

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

Reception Protocol

Specify the reception protocol for receiving e-mail.

Default: [POP3]

POP3 / IMAP4 Settings

Specify the POP3/IMAP4 server name for receiving e-mail.

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

- Server Name

If DNS is in use, enter the host name.

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

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

- Encryption

Default: [Auto]

Select Encryption as follows:

[Auto]

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

[On]

Encrypt password.

[Off]

Do not encrypt password.

Administrator's E-mail Address

Specify the administrator's e-mail address.

Enter up to 128 characters.

E-mail Communication Port

Specify the port numbers for receiving e-mail. The specified POP3 port number is used for [POP before SMTP].

Default for "POP3": [110]

Default for "IMAP4": [143]

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

E-mail Reception Interval

Specify, in minutes, the time interval for receiving e-mail via POP3 or IMAP4 server.

Default: [On], [15 minute(s)]

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

E-mail Storage in Server

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

Default: [Off]

↓ Note

- For details on how to access System Settings, see p. 14 "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 p.111 "Address Book".

- Program / Change

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

- Names

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

- Auth. Info

You can register a user code, and specify the functions available to each user code.

- Add to Group

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 500 names.

You can register up to 500 user codes.

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

Address Book: Program / 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.

- Names

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

- Programmed User/Group

You can check the names or groups registered in each group.

- Add to Group

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 100 groups.

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

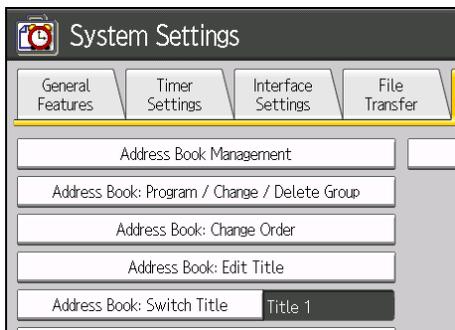
Address Book: Change Order

Changes the order of registered names.

You can rearrange the order of items on the same page, but you cannot move items to another page.

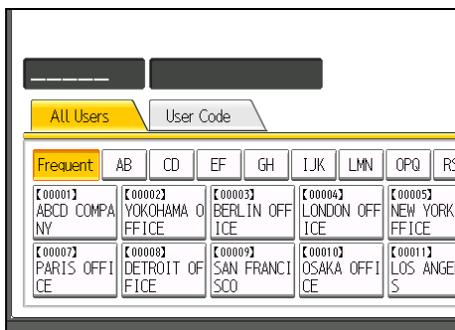
For example, you cannot move an item from "PLANNING" ([OPQ]) to "DAILY" ([CD]).

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [Address Book: Change Order].



5. Press the name key to be moved.

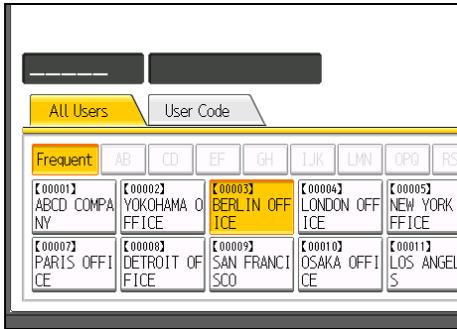
You can also select a name by entering the registration number using the number keys.



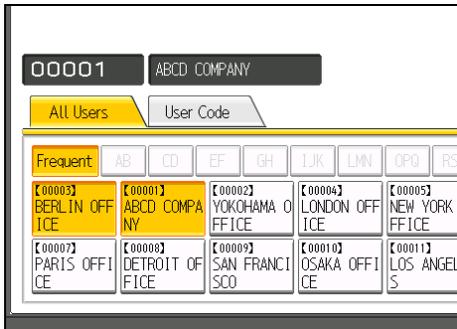
6. Press the name key in place you want to move it to.

You can also select a name by entering the registration number using the number keys.

1



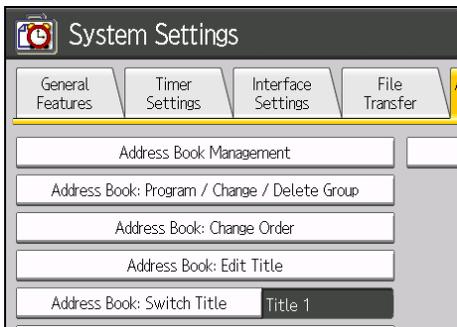
The user key is moved to the selected position, and the user key currently at the selected position is moved forward or backward.



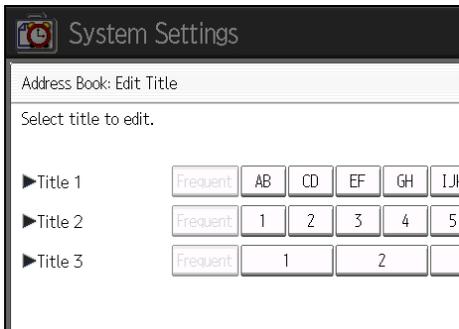
Address Book: Edit Title

You can edit the title to easily find a user.

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [Address Book: Edit Title].



5. Press the title key you want to change.



6. Enter the new name, and then press [OK].
7. Press [OK].
8. Press the [User Tools] key.

Address Book: Switch Title

Specifies the title to select a name.

Default: [Title 1]

Back Up / Restore Address Book

You can back up the machine's Address Book to external storage or restore the backup copy from the external storage.

Backup requires a removable SD card to be installed in this machine.

For details about installing and removing the SD card, contact your sales or service representative.

Restore data overwrites Address Book data stored on the machine, and clears the counter of each registered user of the machine.

You can also back up and restore the machine's Address Book using Web Image Monitor. For details, see the Help files of Web Image Monitor.

- Back Up

You can back up the machine's Address Book to external storage.
- Restore

You can restore the backup copy of the Address Book from external storage.
- Format

You can format the external storage.
- Obtain Memory Device Info

The free space and occupied space of the external storage are displayed.

Display / Print Counter

Allows you to view and print the number of prints.

- Display / Print Counter

Displays the number of prints for each function (Total, Printer, A3 / DLT, Duplex).

- Print Counter List

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

Display / Clear / Print Counter per User

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

Press [**▲**Previous] and [**▼**Next] to show all the numbers of prints.

The number of prints may differ from the counter values shown in Display / Print Counter.

- Print Counter List for All Users
Prints the counter value for all the users.
- Clear Counter List for All Users
Resets the counter value for all the users.
- Print Counter List Per User
Prints the counter value for each user.
- Clear Counter List Per User
Resets the counter value for each user.
- Select All on the Page
Select all the users on the page.

For details about printing the counter, see p.121 "Printing the Counter for Each User" and p.122 "Printing the Counter for All Users".

User Authentication 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 "PC Control", you can obtain a log of prints corresponding to the codes entered using the printer driver.

For details about basic authentication, Windows authentication, LDAP authentication, and Integration Server authentication, consult your administrator.

Functions to Restrict

- Printer:
[Black & White / Colour], [Colour], [PC Control], [Do not Restrict]
- Basic Auth.
- Windows Auth.
- LDAP Auth.
- Integration Svr. Auth.

- Off

Default: [Off]

Administrator Authentication Management

For details about this function, consult your administrator.

Program / Change Administrator

For details about this function, consult your administrator.

Key Counter Management

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

For details about this function, consult your sales or service representative.

External Charge Unit Management

You can use the key card to specify an upper limit on machine use.

For details about this function, consult your administrator.

Enhanced External Charge Unit Management

Specify whether or not to make available enhanced features for enhanced external charge unit management.

For details about this function, consult your administrator.

Extended Security

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

Program / Change / Delete LDAP Server

Program the LDAP server to find up user information in the LDAP server Address Book directly.

- Name
- Server Name
- Search Base
- Port Number
- Use Secure Connection (SSL)
- Authentication
- User Name
- Password
- Realm Name
- Search Conditions

This function supports LDAP Version 2.0 and 3.0. Digest authentication can only be used under LDAP Ver.3.0.

For details about how to program the LDAP Server, see p.39 "Programming the LDAP server".

Auto Off Setting

Specify whether or not to use Auto Off.

Default: [On]

Service Test Call

You can make a test call to the @Remote center.

This function is available only if the @Remote service is enabled and active.

Notify Machine Status

You can send notification of the machine's status to the @Remote center.

This function is available only if the @Remote service is enabled and active.

Service Mode Lock

For details about this function, consult your administrator.

Firmware Version

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

Network Security Level

For details about this function, consult your administrator.

Auto Erase Memory Setting

For details about this function, consult your administrator.

Erase All Memory

For details about this function, consult your administrator.

Program / Change / Delete Realm

Program the realm to be used for Kerberos authentication.

- Realm Name
- KDC Server Name
- Domain Name

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

For details about Program / Change / Delete Realm, see p.44 "Programming the Realm".

Machine Data Encryption Settings

For details about this function, consult your administrator.

↓ Note

- For details on how to access System Settings, see p.14 "Accessing User Tools".

Programming the LDAP server

This function supports LDAP version 2.0 and 3.0.

Program the LDAP server to find user information in the LDAP server Address Book directly.

To start an LDAP authentication, 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 Number
- 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".

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

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [▼Next].
5. Press [Program / Change / Delete LDAP Server].
6. Check that [Program / Change] is selected.
7. Select the LDAP server you want to program or change.
When programming the server, select [*Not Programmed].
8. Press [Change] under "Name".
9. Enter the name, and then press [OK].
10. Press [Change] under "Server Name".
11. Enter the server name, and then press [OK].

12. Press [Change] under "Search Base".

Select the root folder from which to start the search. Users registered in the selected folder and its subfolders become search targets.

13. 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.

14. Press [Change] under "Port Number".

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

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

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

16. Press [On] under "Use Secure Connection (SSL)".

Use SSL to communicate with the LDAP server.

For SSL to function, the LDAP server must support SSL.

If you set SSL to [On], the port number automatically changes to "636".

If you do not enable SSL, security problems may occur. To enable SSL, you must use the machine's settings. For details, consult your network administrator.

17. Press [▼Next].

18. Select the authentication method.

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.

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

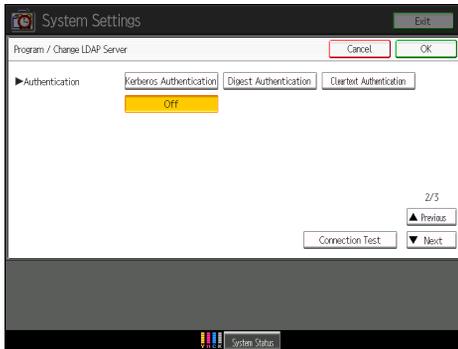
If you select [Digest Authentication], a password is sent using an encryption process that prevents passwords from being revealed during transmission to the LDAP server.

If you select [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 [Off], proceed to step 24.

If you select [Digest Authentication] or [Cleartext Authentication], proceed to step 19 to 22, and then proceed to step 24.

If you select [Kerberos Authentication], proceed to step 19 to 23, and then proceed to step 24.



19. Press [Change] under "User Name".

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.

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

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

21. Press [Change] under "Password".

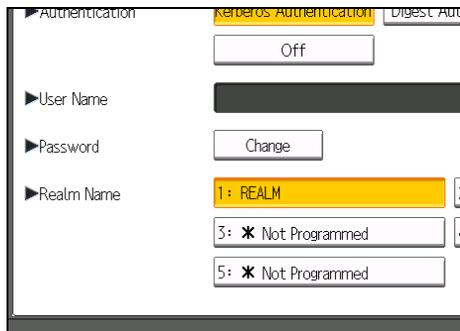
22. Enter the password, and then press [OK].

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

If you select [Digest Authentication] or [Cleartext Authentication], proceed to step 24.

23. Select the Realm.

For details about how to program the Realm, see p.44 "Programming the Realm".



24. Press [Connection Test].

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

25. Press [Exit].

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

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

26. Press [▼Next].

27. Press [Change] under "Name".

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

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

29. Press [OK].

30. Press [Exit].

31. Press the [User Tools] key.

Changing the LDAP server

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [▼Next].
5. Press [Program / Change / Delete LDAP Server].
6. Check that [Program / Change] is selected.
7. Select the LDAP server you want to change.
8. Change the settings as necessary.
9. Press [OK] after changing each item.
10. Press [Exit].

11. Press the [User Tools] key.

Deleting the LDAP server

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [▼Next].
5. Press [Program / Change / Delete LDAP Server].
6. Press [Delete].
7. Select the LDAP server you want to delete.
8. Press [Yes].
9. Press [Exit].
10. Press the [User Tools] key.

Programming the Realm

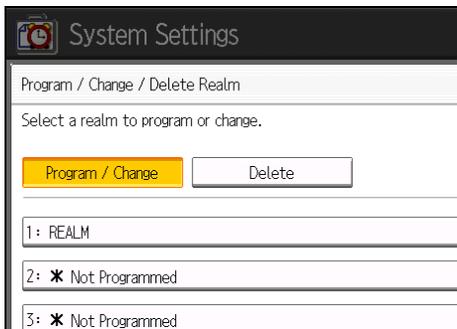
Program the realm to be used for Kerberos authentication.

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

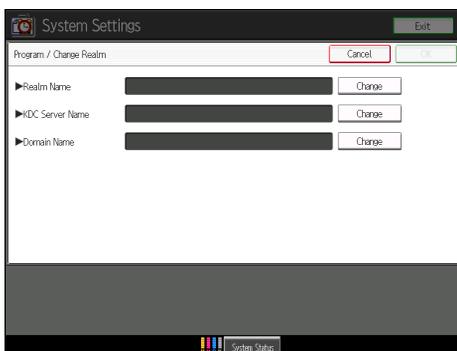
You can register up to 5 realms.

Programming the Realm

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [▼Next] twice.
5. Press [Program / Change / Delete Realm].
6. Check that [Program / Change] is selected.



7. Press [* Not Programmed].
8. Press [Change] under "Realm Name".



9. Enter the realm name, and then press [OK].

Enter the realm name, or host name.

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

10. Press [Change] under "KDC Server Name".**11. Enter the KDC server name, and then press [OK].**

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

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

12. Press [Change] under "Domain Name".**13. Enter the domain name, and then press [OK].**

Enter the domain name, or host name.

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

14. Press [OK].**15. Press [Exit].****16. Press the [User Tools] key.**

Changing the Realm

1. Press the [User Tools] key.**2. Press [System Settings].****3. Press [Administrator Tools].****4. Press [▼Next] twice.****5. Press [Program / Change / Delete Realm].****6. Check that [Program / Change] is selected.****7. Select the Realm you want to change.****8. To change the realm name, press [Change] under "Realm Name".****9. Enter the realm name, and then press [OK].**

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

10. To change the KDC server name, press [Change] under "KDC Server Name".**11. Enter the KDC server name, and then press [OK].**

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

12. To change the domain name, press [Change] under "Domain Name".**13. Enter the domain name, and then press [OK].**

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

14. Press [OK].

15. Press [Exit].
16. Press the [User Tools] key.

1

Deleting the Realm

1. Press the [User Tools] key.
2. Press [System Settings].
3. Press [Administrator Tools].
4. Press [▼Next] twice.
5. Press [Program / Change / Delete Realm].
6. Press [Delete].
7. Select the realm you want to delete.
8. Press [Yes].
9. Press [Exit].
10. Press the [User Tools] key.

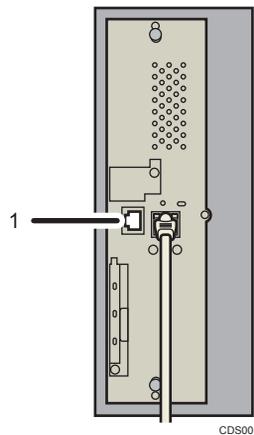
2. Connecting the Machine

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

Connecting to the Interface

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

2



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

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

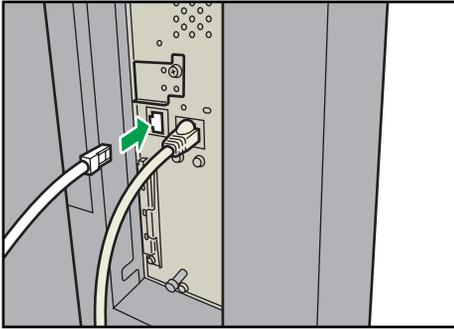
Connecting to the Ethernet Interface

★ Important

- 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

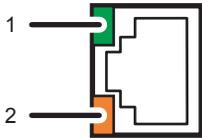
1. Make sure the main power is switched off.

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



CDS002

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



CDS008

1. Indicator (green)

When 10BASE-T is operating, the LED is lit green. When 100BASE-TX is operating or the machine is not connected to the network, it is turned off.

2. Indicator (orange)

When 100BASE-TX is operating, the LED is lit orange. When 10BASE-T is operating or the machine is not connected to the network, it is turned off.

Note

- For details about how to turn on the main power switch, see "Turning On the Power", About This Machine.

Using Utilities to Make Network Settings

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

↓ Note

- These settings should be made by the administrator, or with the advice of the administrator.
- For details about using Web Image Monitor, see p.55 "Using Web Image Monitor".
- For details about using telnet, see p.73 "Remote Maintenance Using telnet".

2

Interface Settings

Change settings by using Web Image Monitor and telnet.

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

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

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

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

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

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

[Network] → [IPv4 Gateway Address]

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

[Network] → [Machine IPv6 Address] → "Manual Configuration Address"

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

[Network] → [IPv6 Stateless Address Autoconfiguration]

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

[Network] → [DDNS Configuration]

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

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

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

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

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

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

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

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

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

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

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

[Network] → [SMB Work Group]

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

[Network] → [Ethernet Speed]

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

[Network] → [Permit SNMPv3 Communication] → [Encryption Only]

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

[Network] → [Permit SNMPv3 Communication] → [Encryption / Cleartext]

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

[Network] → [Permit SSL / TLS Communication] → [Ciphertext Only]

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

[Network] → [Permit SSL / TLS Communication] → [Ciphertext Priority]

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

[Network] → [Permit SSL / TLS Communication] → [Ciphertext / Cleartext]

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

[Network] → [Machine Name]

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

[Network] → [IEEE 802.1X Authentication for Ethernet]

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

File Transfer

Change settings by using Web Image Monitor and telnet.

[File Transfer] → [SMTP Server]

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

[File Transfer] → [SMTP Authentication]

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

[File Transfer] → [POP before SMTP]

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

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

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

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

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

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

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

[File Transfer] → [POP3 / IMAP4 Settings]

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

[File Transfer] → [Administrator's E-mail Address]

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

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

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

[File Transfer] → [E-mail Reception Interval]

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

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

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

3. Monitoring and Configuring the Machine

This chapter describes how to monitor and configure the machine.

Using Web Image Monitor

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

3

Available operations

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

- Displaying machine status or settings
- 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.

↓ Note

- 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.

3

- 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 work area.
- We recommend using Web Image Monitor in the same network.
- If the machine is firewall-protected, it cannot be accessed from computers 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 R2/2008/2008 R2 or Windows Vista/7 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.
- If you are using Internet Explorer 8, downloading will be slower than with other browsers. To download faster with Internet Explorer 8, open the browser's [Internet Options] menu and register the machine's URL as a trusted site. Then disable SmartScreen filter for trusted sites. For details about these settings, see the Internet Explorer 8 Help files.
- You can access Web Image Monitor more quickly by registering the machine's URL as a bookmark. Note that the URL you register must be the URL of the top page, which is the page that appears before login. If you register the URL of a page that appears after login, Web Image Monitor will not open properly from the bookmark.

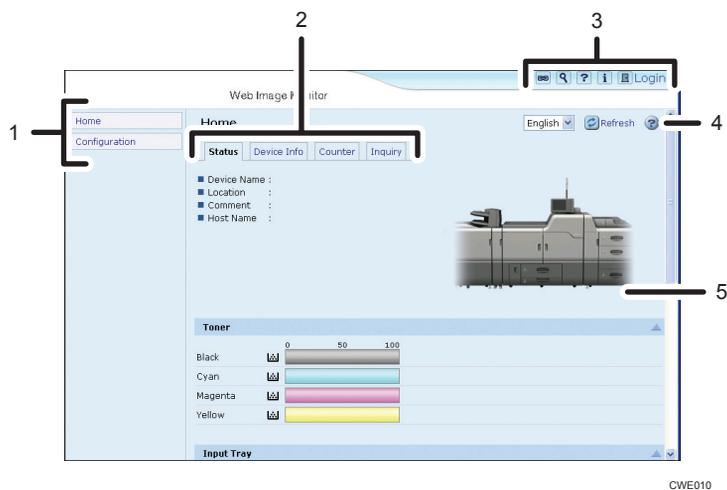
Displaying Top Page

1. **Start your Web browser.**
2. **Enter "http://(machine's IP address or host name)/" in your Web browser's URL bar.**

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:



CWE010

1. Menu area

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

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

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

↓ Note

- When using a host name under Windows Server 2003/2003 R2/2008/2008 R2 or Windows Vista/7 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 in when user authentication is set.

1. Click [Login].
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.

Depending on the configuration of your Web browser, the login user name and password might be saved. If you do not want to save them, configure your Web browser's settings so that this information is not saved.

Note

- 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 out.

Note

- When you log in and make the setting, always click [Logout].

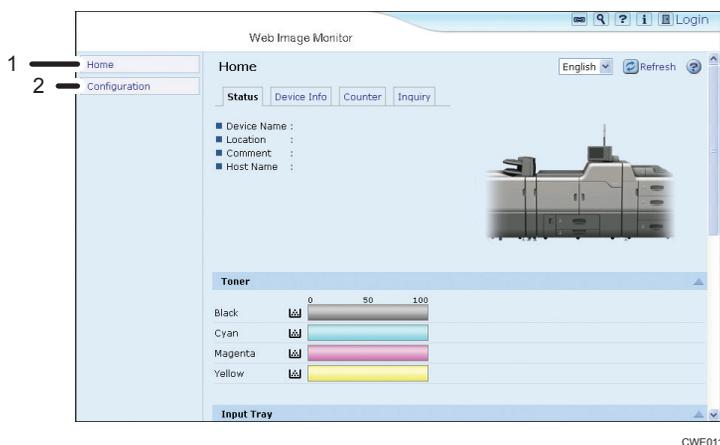
About Menu and Mode

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

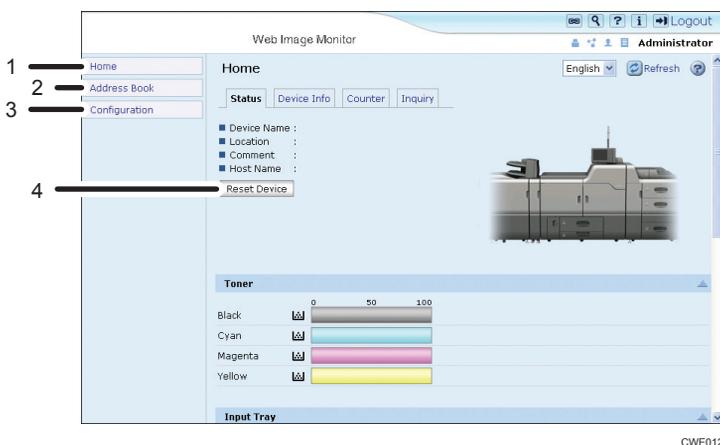
The [Status], [Device Info], [Counter], and [Inquiry] tab are displayed. Details of the tab menu are displayed on the work area.

2. Configuration

Display current machine and network settings.

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. Address Book

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

3. Configuration

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

4. Reset Device

To restart the machine, click the [Reset Device] button on the top page.

Access in the Administrator Mode

1. On Top Page, click [Login].
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.

Depending on the configuration of your Web browser, the login user name and password might be saved. If you do not want to save them, configure your Web browser's settings so that this information is not saved.

3

List of Setting Items

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

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

Home

Status

Menu	Guest mode	Administrator mode
Reset Device	None	Modify
Toner	Read	Read
Input Tray	Read	Read
Output Tray	Read	Read
Binding Ring Comb	Read	Read

Device Info

Menu	Guest mode	Administrator mode
Functions	Read	Read
System	Read	Read

Menu	Guest mode	Administrator mode
Version	Read	Read

Counter

Menu	Guest mode	Administrator mode
Total	Read	Read
Printer	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
Consumables	Read	Read

Address Book

Menu	Guest mode	Administrator mode
Address List	None	Read/Modify

Configuration

Device Settings

Menu	Guest mode	Administrator mode
System	Read	Read/Modify
Paper	Read	Read/Modify
Custom Paper	None	Read/Modify
Date/Time	Read	Read/Modify

Menu	Guest mode	Administrator mode
Timer	Read	Read/Modify
Logs	None	Read/Modify
Download Logs	None	Read/Modify
E-mail	Read	Read/Modify
Auto E-mail Notification	None	Read/Modify
On-demand E-mail Notification	None	Read/Modify
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	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
SMB	Read	Read/Modify
SNMP	None	Read/Modify

Menu	Guest mode	Administrator mode
SNMPv3	None	Read/Modify
SSDP	None	Read/Modify
Bonjour	Read	Read/Modify
System Log	Read	Read

Security

3

Menu	Guest mode	Administrator mode
Network Security	None	Read/Modify
Access Control	None	Read/Modify
SSL/TLS	None	Read/Modify
ssh	None	Read/Modify
Site Certificate	None	Read/Modify
Device Certificate	None	Read/Modify
IPsec	None	Read/Modify
User Lockout Policy	None	Read/Modify
IEEE 802.1X	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

Note

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

Displaying Web Image Monitor Help

When using Help for the first time, clicking the Help button (??) makes the following screen appear, in which you can view Help in two different ways, as shown below:

Viewing Help on our Web site

You can view the latest Help information.

Downloading and Checking Help

You can download the Web Image Monitor Help file to your computer's local disk so you can access Help directly. Alternatively, you can store the Help file on the Web server and associate it with the Help button, which will allow you to access Help without connecting to the Internet.

Note

- By clicking the Help button (?) in the header area, the contents of Help appear.
- By clicking the Help button (?) in the work area, Help for the setting items in the work 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 Help button (??).

1. Log in to Web Image Monitor in the administrator mode.
2. In the menu area, click [Configuration].
3. Under "Webpage", click [Webpage].

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

If the URL of the Help file on the Web server is "http://a.b.c.d/HELP/EN/index.html", enter "http://a.b.c.d/HELP/".

5. Click [OK].**6. "Updating..." appears. Wait for about one or two minutes, and then click [OK].****↓ Note**

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

Machine Status Notification by E-Mail

Whenever a paper tray becomes empty, has a paper jam, or the administrator makes a request, a notification e-mail regarding the machine status is sent to the registered addresses.

★ Important

- Depending on your e-mail application, a phishing warning might appear after you receive an e-mail message. To prevent phishing warnings appearing after you receive e-mail from a specified sender, you must add the sender to your e-mail application's exclusion list. For details about how to do this, see your e-mail application's Help.

The e-mail notification functions you can set are as follows:

- Auto E-mail Notification

Whenever a paper tray becomes empty or has a paper jam, a notification e-mail is automatically sent to the registered addresses. Before you use this function, specify which events to report and register the e-mail addresses of the destinations.

- On-demand E-mail Notification

The machine status and other information is sent by e-mail if a request e-mail from the administrator is received.

The information that can be notified by auto e-mail notification is as follows:

- Call Service
- Out of Toner
- Toner Almost Empty
- Paper Misfeed
- Cover Open
- Out of Paper
- Almost Out of Paper
- Paper Tray Error
- Output Tray Full
- Unit Connection Error
- Waste Toner Bottle is Full
- Waste Toner Bottle is Almost Full
- Add Staples
- Service Call Successful*
- Service has been called, but currently unavailable*
- Service Call Failed*
- Supply Call Successful*

- Supply Call Failed*
- Connection Error between Device and Server for Remote Diagnostics*
- Hole Punch Receptacle is Full
- Replacement Required Soon: Cleaning Web
- Confirm Firmware Update*
- Proxy Authentication Error*
- Replacement Required: Cleaning Web
- Waste Staple Receptacle is Full
- Device Access Violation
- Replacement Required: Unit
- Replacement Required Soon: Unit
- Out of Binding Ring Combs
- Waste Paper Receptacle is Full
- Binder Tray Error
- Toner Almost Empty (Remaining Level Selectable)

* This auto e-mail notification is only available if the @Remote service is enabled and active.

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

2. In the menu area, click [Configuration].

3. Under "Device Settings", click [E-mail].

4. Make the following settings:

- Administrator E-mail Address: Specify the administrator's e-mail address.
- Items in the Reception column: Make the necessary settings for receiving e-mail.
- Items in the SMTP column: Configure the SMTP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the SMTP server.
- Items in the POP before SMTP column: Configure the POP server. Check your mailing environment, and then specify the necessary items. You can also perform mail authentication for the POP server.
- Items in the POP3/IMAP4 column: Configure the POP3 or IMAP4 server. Check your mailing environment, and then specify the necessary items.
- Items in the E-mail Communication Port column: Configure the port to be used for access to the mail server.
- Items in the E-mail Notification Account column: Specify these items if you want to use e-mail notification.

5. Click [OK].

6. Click [Logout].

7. Quit Web Image Monitor.

Note

- For details about login user name and password, see Security Reference, which is the administrator's manual.
- Depending on the configuration of your Web browser, the login user name and password might be saved. If you do not want to save them, configure your Web browser's settings so that this information is not saved.
- For details about the settings, see Web Image Monitor Help.
- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".

3

Setting the Account for E-mail Notification

Before you use Auto E-mail Notification or On-demand E-mail Notification, setup an e-mail account to be used for the function. Perform the following configuration task in Web Image Monitor.

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

2. In the menu area, click [Configuration].

3. Under "Device Settings", click [E-mail].

4. Make the following settings in E-mail Notification Account:

- E-mail Notification E-mail Address: Enter the address using alphanumeric characters. This will appear as the sender (From:) of the e-mail notification. Send requests for e-mail notification to this address.
- Receive E-mail Notification: Specify whether to use On-demand E-mail Notification.
- E-mail Notification User Name: Enter the specified user name for the e-mail account in "E-mail Notification E-mail Address".
- E-mail Notification Password: Enter the specified password for the e-mail account in "E-mail Notification E-mail Address".

5. Click [OK].

6. Click [Logout].

7. Quit Web Image Monitor.

Note

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".

Mail Authentication

You can configure mail authentication to prevent illegal use of the mail server.

SMTP Authentication

Specify SMTP authentication.

When mail is sent to the SMTP server, authentication is performed using the SMTP AUTH protocol by prompting the mail originator to enter the user name and password. This prevents illegal use of the SMTP server.

1. Log in to Web Image Monitor in administrator mode.
2. In the menu area, click [Configuration].
3. Under "Device Settings", click [E-mail].
4. Make the following settings in SMTP column:
 - SMTP Server Name: Enter the IP address or host name of the SMTP server.
 - SMTP Port No.: Enter the port number used when sending e-mail to the SMTP server.
 - SMTP Authentication: Enable or disable SMTP authentication.
 - SMTP Auth. E-mail Address: Enter the e-mail address.
 - SMTP Auth. User Name: Enter the SMTP account name.
 - SMTP Auth. Password: To set or change the password for SMTP AUTH.
 - SMTP Auth. Encryption: Select whether to encrypt the password or not.
[Auto Select]: If the authentication method is PLAIN, LOGIN, CRAM-MD5, or DIGEST-MD5.
[Active]: If the authentication method is CRAM-MD5 or DIGEST-MD5.
[Inactive]: If the authentication method is PLAIN or LOGIN.
5. Click [OK].
6. Click [Logout].
7. Quit Web Image Monitor.

POP before SMTP Authentication

Select whether to log in to the POP3 server before sending e-mail.

1. Log in to Web Image Monitor in administrator mode.
2. In the menu area, click [Configuration].
3. Under "Device Settings", click [E-mail].
4. Make the following settings in POP before SMTP column:
 - POP before SMTP: Enable or disable POP before SMTP.
 - POP E-mail Address: Enter the e-mail address.

- POP User Name: Enter the POP account name.
- POP Password: To set or change the POP password.
- Timeout setting after POP Auth.: Enter the time available before connecting to the SMTP server after logging in to the POP server.

5. Click [OK].

6. Click [Logout].

7. Quit Web Image Monitor.

3

↓ **Note**

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".

Auto E-mail Notification

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

2. In the menu area, click [Configuration].

3. Under "Device Settings", click [Auto E-mail Notification].

4. Make the following settings:

- Notification Message: You can set this according to your needs, for example, the machine's location, service representative contact information.
- Items in the Groups to Notify column: E-mail notification addresses can be grouped as required.
- Items in the Select Groups/Items to Notify column: Select groups for each notification type, such as machine status and error.

To make detailed settings for these items, click [Edit] next to "Detailed Settings of Each Item".

5. Click [OK].

6. Click [Logout].

7. Quit Web Image Monitor.

↓ **Note**

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

On-demand E-mail Notification

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

2. In the menu area, click [Configuration].

3. Under "Device Settings", click [On-demand E-mail Notification].

4. Make the following settings:

- Notification Subject: Enter a text string to be added to the subject line of return e-mails.
- Notification Message: You can set this according to your needs, for example, the machine's location, service representative contact information.
- Restriction to Device Status Info.: Select whether or not to allow access to the information such as the machine settings and status.
- Items in the Receivable E-mail Address/Domain Name Settings column: Enter an e-mail address or domain name to use for requesting information by e-mail and to receive its return e-mail.

5. Click [OK].

6. Click [Logout].

7. Quit Web Image Monitor.

↓ Note

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".
- For details about the settings, see Web Image Monitor Help.

Format of On-demand E-mail Messages

To use "On-demand E-mail Notification", you need to send a request e-mail with a particular format to the machine.

Using your mail software, enter the following:

Format of the request e-mail

Item	Description
To	Enter the specified e-mail address in "E-mail Notification E-mail Address".
Subject	Enter "requeststatus".
From	Specify a valid mail address. The device information will be sent to the address specified here.

↓ Note

- For details about specifying "E-mail Notification E-mail Address", see p.68 "Setting the Account for E-mail Notification".

- A mail message must be within 1 MB in size.
- E-mail may be incomplete if sent immediately after power on.
- The subject is not case sensitive.
- The body of a request e-mail has no meaning. Any text written in the e-mail body is ignored.

Remote Maintenance Using telnet

★ Important

- Remote Maintenance should be protected so that access is allowed to administrators only.
- The password is the same as the one of Web Image Monitor administrator. When the password is changed using "telnet", other's change also.

Using telnet

3

★ Important

- Only one user at a time can log in to perform remote maintenance.
- If you are using Windows Vista/7, 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"
```

For example, if the machine's IP address is "192.168.15.16", enter the address as follows:

```
% telnet 192.168.15.16
```

2. Enter your user name and password.

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

3. Enter a command.

4. Quit telnet.

```
msh> logout
```

A message asking you to confirm 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.

↓ Note

- If the message "Can not write NVRAM information" appears, the changes are not saved. Repeat the procedure above.
- When the changes are saved, the network interface board is reset automatically with that changes.

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.

Note

- 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 "baseaddress prefixlen".
- The access range restricts computers from use of the machine by IP address. If you do not need to restrict the access range, set it to "0.0.0.0" for IPv4, and "::" for IPv6.
- Valid ranges must be from lower (start address) to higher (end address).
- For IPv4 and IPv6, you can select an ID number between 1 and 5.
- IPv6 can register and select the range and the mask for each access ranges.
- IPv6 mask ranges between 1 - 128 can be selected.
- Up to five access ranges can be specified. The entry is invalid if the target number is omitted.

- You cannot access Web Image Monitor from a restricted IP address.

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

↓ Note

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

bonjour

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

View settings

Bonjour settings are displayed.

```
msh> bonjour
```

Bonjour service name setting

You can specify the bonjour service name.

```
msh> bonjour cname "computer name"
```

- The computer name can be entered using up to 63 alphanumeric characters.
- If you do not specify a character string, the current setting is displayed.

Bonjour Installation location information setting

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

```
msh> bonjour location "location"
```

- Information about the location can be entered using up to 32 alphanumeric characters.
- If you do not specify a character string, current setting is displayed.

3

IP TTL setting

```
msh> bonjour ipttl [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

devicename

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

View settings

```
msh> devicename
```

Machine name configuration

```
msh> devicename name "character string"
```

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

Machine name initialization

```
msh> devicename clear name
```

- Reset the machine name to its default.

dhcp

3

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}
```

- Specify "on" to enable dhcp. Specify "off" to disable DHCP.
- If the DNS server address and domain name are obtained from DHCP, be sure to specify {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 "interface_name" 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".

Note

- When using the machine in a DHCP environment, see p.157 "Using DHCP".

3

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}
```

Interface name	Interface configured
ether	Ethernet interface

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.

dns

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

View settings

The following command displays the 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

```
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 the 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 machine as the DNS client.

The DNS server address and the domain name already designated are used for the registration.

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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.

View settings

The following command displays the current domain name:

```
msh> domainname
```

Interface domain configuration

```
msh> domainname "interface_name"
```

Setting the Domain Name

```
msh> domainname "interface_name" name "domain name"
```

- A domain name can be entered using up to 63 alphanumeric characters.

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".

etherconfig

Use the "etherconfig" command to view and configure the Ethernet parameters.

View settings

```
msh> etherconfig
```

Specify Ethernet Speed

```
msh> etherconfig speed {auto|10f|10h|100f|100h}
```

- auto=Auto Select
- 10f=10 Mbps Full Duplex
- 10h=10 Mbps Half Duplex
- 100f=100 Mbps Full Duplex
- 100h=100 Mbps Half Duplex

The default is "auto".

help

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

Command list display

```
msh> help
```

Display of procedure for using commands

```
msh> help "command_name"
```

hostname

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

View settings

```
msh> hostname
```

IPv4 Configuration

```
msh> hostname "interface_name" name "character string"
```

- Enter the host name using up to 63 alphanumeric characters.
- You cannot use a host name beginning "RNP" (in either upper or lower case).
- If you do not specify an interface, the Ethernet interface is selected automatically.

Interface name	Interface configured
ether	Ethernet interface

Initializing the host 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 machine.

View settings

```
msh> ifconfig
```

IPv4 configuration

```
msh> ifconfig "interface_name" "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 the Ethernet interface.

```
msh> ifconfig ether 192.168.15.16
```

IPv6 configuration

```
msh> ifconfig "interface_name" inet6 "address" "prefixlen[1-128]"
```

The following explains how to configure an IPv6 address to 2001:DB8::100 with prefix length 64 on the Ethernet interface.

```
msh> ifconfig ether inet6 2001:DB8::100 64
```

Netmask configuration

```
msh> ifconfig "interface_name" netmask "address"
```

The following explains how to configure a subnet mask 255.255.255.0 on the 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
```

↓ Note

- To get the above addresses, contact your network administrator.
- Use the default configuration if you cannot obtain setting addresses.
- Use "0x" as the initial two letters of a hexadecimal address.

ipsec

Use the "ipsec" command to view and configure the IPsec settings.

View settings

The following command displays the current IPsec settings:

```
msh> ipsec
```

↓ Note

- For details about displayed contents, consult your administrator.

ipv6

Use the "ipv6" command to display and configure the IPv6 settings.

View Setting

```
msh> ipv6
```

IPv6 stateless address

```
msh> ipv6 stateless {on|off}
```

logout

Use "logout" command to 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].

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passwd

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

Changing the password

```
msh> passwd
```

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

Changing the password of the administrators using the Supervisor

```
msh> passwd {Administrator ID}
```

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

↓ Note

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

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, setting "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, set "pathmtu" to "off".

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 the destination address.

Enabling/disabling specified IPv4 destination

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

- If you do not specify {host|net}, the host setting is automatically selected.

Adding IPv4 routing table

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

- Adds a host or network route to "destination", and a gateway address to "gateway" in the table.
- Specify the IPv4 address to destination and gateway.
- If you do not specify {host|net}, the host setting is selected automatically.
- You cannot specify "0.0.0.0" as the destination address.

Setting the Default IPv4 gateway

```
msh> route add default "gateway"
```

Deleting specified IPv4 destination from routing table

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

- If you do not specify {host|net}, the host setting is automatically selected.
- IPv4 address of destination can be specified.

Setting IPv6 default gateway

```
msh> route add6 default "gateway"
```

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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 "0000:0000:0000:0000:0000:0000:0000:0000" 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
```

↓ Note

- The maximum number of IPv4 routing tables is 16.
- The maximum number of IPv6 routing tables is 2.
- Set a gateway address when communicating with devices on an external network.
- The same gateway address is shared by all interfaces.
- "Prefixlen" is a number between 1 and 128.

set

Use the "set" command to set the protocol information display "up" or "down".

View settings

The following command displays the protocol information (up/down).

```
msh> set ipv4  
msh> set ipv6  
msh> set ipsec  
msh> set smb
```

```
msh> set protocol
```

- When protocol is specified, information about IPv4, IPv6, IPsec, and SMB appears.

```
msh> set ftp
```

```
msh> set ftp6
```

```
msh> set rsh
```

```
msh> set rsh6
```

```
msh> set web
```

```
msh> set snmp
```

```
msh> set ssl
```

```
msh> set ssl6
```

```
msh> set nrs
```

```
msh> set rfu
```

```
msh> set rfu6
```

```
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 lltd
```

Configuration

- Enter "up" to enable the protocol, and enter "down" to disable the 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 out. If you did this by mistake, you can use the control panel to enable remote access via IPv4.
- Disabling IPv4 also disables ftp, rsh, web, snmp, ssl, http, bonjour, and sftp.

```
msh> set ipv6 {up|down}
```

- If you disable IPv6, you cannot use remote access after logging out. If you did this by mistake, you can use the control panel to enable remote access via IPv6.
- Disabling IPv6 also disables ftp6, rsh6, ssl6, http6, bonjour6, and sftp6.

3

```
msh> set ipsec {up|down}
msh> set smb {up|down}
msh> set ftp {up|down}
msh> set ftp6 {up|down}
msh> set rsh {up|down}
msh> set rsh6 {up|down}
msh> set web {up|down}
msh> set snmp {up|down}
msh> set ssl {up|down}
msh> set ssl6 {up|down}
```

- If Secured Sockets Layer (SSL, an encryption protocol) function is not available for the machine, 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 http {up|down}
msh> set http6 {up|down}
msh> set bonjour {up|down}
msh> set bonjour6 {up|down}
msh> set nbt {up|down}
msh> set ssdp {up|down}
msh> set ssh {up|down}
msh> set sftp {up|down}
msh> set sftp6 {up|down}
msh> set lltd {up|down}
```

show

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

View settings

```
msh> show
```

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

Note

- For details about the displayed information, see p.101 "Understanding the Displayed Information".

smb

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

View settings

```
msh> smb
```

View computer name

```
msh> smb comp
```

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.

View workgroup name

```
msh> smb group
```

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
```

Displaying higher priority SMB client ports

```
msh> smb client port
```

Specifying higher priority SMB client ports

```
msh> smb client port {139|445}
```

Displaying SMB client authentication level

```
msh> smb client auth
```

Specifying SMB client authentication level

```
msh> smb client auth {0|1}
```

3

snmp

Use the "snmp" command to display and edit the 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::
Access type: read only
Effective Protocol: IPv4/IPv6
- Default access settings 2 is as follows:
Community name: admin
IPv4 address: 0.0.0.0
IPv6 address::
Access type: read/write
Effective Protocol: IPv4/IPv6
- 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 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

3

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} {on|off}
```

- Specify "ipv4" for IPv4, or "ipv6" for IPv6.
- {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} {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} "address"
```

- You can configure a host address according to the protocol used.
- The network interface board accepts requests only from hosts that have IPv4 and IPv6 addresses with access types of "read-only" or "read-write". Enter "0" to have the 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.

sysLocation configuration

```
msh> snmp location "character string"
```

Deleting sysLocation

```
msh> snmp clear location
```

sysContact setting

```
msh> snmp contact "character string"
```

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} "address"
```

Configuring a sending protocol for SNMP v3 TRAP

```
msh> snmp v3trap [1-5] active {ipv4|ipv6} {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.

↓ Note

- "Encrypted communication" means an encrypted password is set on the machine.

3

sntp

The machine clock can be synchronized with a NTP server clock using Simple Network Time Protocol (SNTP). Use the "sntp" command to change the 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 machine 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 machine synchronizes with the NTP server only when you turn the machine on. After that, the machine does not synchronize with the NTP server.

Time-zone configuration

```
msh> sntp timezone "±hour_time"
```

- You can specify the time difference between the machine clock and NTP server clock. The values are between -12:00 and +13:00.

Note

- You can only select either the address or host name for the ntp server.

ssdp

Use the "ssdp" command to view and configure the 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 the SSH settings.

View settings

```
msh> ssh
```

Data compression communication settings

```
msh> ssh compression {on|off}
```

The default is "on".

SSH/SFTP communication port setting

```
msh> ssh port [22, 1024-65535]
```

The default is 22.

SSH/SFTP communication timeout setting

```
msh> ssh timeout [0-65535]
```

The default is 300.

SSH/SFTP communication login timeout setting

```
msh> ssh logintimeout [0-65535]
```

The default is 300.

Setting an open key for SSH/SFTP

```
msh> ssh genkey {512|768|1024} "character string"
```

Create an open key for SSH/SFTP communication.

Usable characters are ASCII 0x20-0x7e (32 bytes) other than "0".

The default key length is 1024, and the character string is blank.

If you do not specify this parameter, an open key with the default value will be created.

Deleting open key for ssh/ sftp communication

```
msh> ssh delkey
```

↓ Note

- If you do not specify a character string, current setting is displayed.
- ssh can be used only with sftp.

3

syslog

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

View message

```
msh> syslog
```

↓ Note

- For details about the displayed information, see p.105 "Message List".

upnp

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

Public URL display

```
msh> upnp
```

Public URL configuration

```
msh> upnp url "string"
```

- Enter the URL string in the character string.

Resetting public URL

```
msh> upnp clear url
```

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
```

wins

Use the "wins" command to configure the 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:

```
msh> wins "interface_name" {primary|secondary} "IPv4 address"
```

- Use the "primary" command to configure the primary WINS server IP address.
- Use the "secondary" command to configure the secondary WINS server IP address.
- Do not use "255.255.255.255" as the IP address.

3

NBT (NetBIOS over TCP/IP) scope ID selection

You can specify the NBT scope ID.

```
msh> wins "interface_name" scope "ScopeID"
```

- 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

8021x

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

View settings

```
msh> 8021x
```

Configuration

```
msh> 8021x "parameter"
```

Parameter	Value configured
<code>eap {tls ttls leap peap} {chap mschap mschapv2 pap md5 tls}</code>	<p>You can specify the EAP authentication type.</p> <p>tls: EAP-TLS (default)</p> <p>ttls: EAP-TTLS</p> <p>leap: LEAP</p> <p>peap: PEAP</p> <p>chap, mschap, mschapv2, pap, md5, and tls are settings for the phase 2 method, and one of these must be specified if EAP-TTLS or PEAP is selected.</p> <p>Do not make these settings when using other EAP authentication types.</p> <p>If you select EAP-TTLS, you can select chap, mschap, mschapv2, pap, or md5.</p> <p>If you select PEAP, you can select mschapv2 or tls.</p>
<code>username "character string"</code>	<p>You can specify the login user name for the Radius server.</p> <p>Usable characters: ASCII 0x20-0x7e (31 bytes).</p> <p>The default is blank.</p>
<code>username2 "character string"</code>	<p>You can specify the phase 2 username for EAP-TTLS/PEAP phase 2 authentication.</p> <p>Usable characters: ASCII 0x20-0x7e (31 bytes).</p> <p>The default is blank.</p>
<code>domain "character string"</code>	<p>You can specify the login domain name for the Radius server.</p> <p>The characters you can enter are ASCII 0x20-0x7e (64 bytes), but not "@" or "\".</p> <p>The default is blank.</p>
<code>password "character string"</code>	<p>You can specify the login password for the Radius server.</p> <p>Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank.</p>

Parameter	Value configured
svrcert {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 sub domain of the certificate server. Usable characters: ASCII 0x20-0x7e (128 bytes). The default is blank.
subdomain {on off}	You can specify whether or not to permit access to the machine by users in subdomains use. The default is "off".
clae {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 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.

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

Understanding the Displayed Information

This section explains how to read status information returned by the network interface board.

Configuring the Network Interface Board

Use the following command to display network interface board settings:

- telnet : Use the "show" command.

Protocol Up/Down

The following protocols are displayed ("Up" indicates enabled; "Down" indicates disabled):.

IPv4, IPv6, IPsec, SMB

Ethernet interface

Displays the Ethernet speed.

Syslog priority

"LOG_INFO" is displayed.

NVRAM version

Displays the NVRAM version.

Device name

Displays the device name.

Comment

Displays the comment(s).

Location

Displays the location of the device.

Contact

Displays the contact details.

Soft switch

Displays the soft switch.

TCP/IP

The following items are displayed: ("Up" indicates enabled; "Down", indicates disabled):.

- Mode (IPv4)
- Mode (IPv6)
- ftp, rsh, web, http, ftpc, snmp, autonet, Bonjour, ssl, nrs, rfu, nbt, sstp, ssh, sftp
- IPv4
- DHCP, Address, Netmask, Broadcast, Gateway

- IPv6
Stateless, Manual, Gateway, DHCPv6-lite, DUID, DHCPv6 option lifetime
- IPsec
Manual Mode, Excluded Protocol (https, dns, dhcp, wins)
- EncapType
- Host name
- DNS Domain
- Access Control
IPv4: Access Entry [1]-[5]
IPv6: Access Entry [1]-[5]
- SNTP Server
- Time Zone
- SNTP Server polling time
- SYSLOG server
- Home page URL1
- Home page link name 1
- Home page URL2
- Home page link name2
- Help page URL

SMB

The following items are displayed:

- Switch
Mode, Direct print, Notification
- Workgroup name
- Computer name
- Comment
- Share name [1]
- Protocol
- Client port
- Client auth level

Ethernet

The following item is displayed:

802.1X Authentication

DNS

The following items are displayed:

- IPv4
Server [1]-[3], Selected IPv4 DNS Server
- IPv6
Server [1]-[3], Selected IPv6 DNS Server
- Resolver Protocol

Domain name

The following items are displayed:

ether

DDNS

The following items are displayed:

ether

WINS

The following items are displayed:

- ether
Primary WINS, Secondary WINS

SSDP

The following items are displayed:

UUID, Profile, TTL

UPnP

The following item is displayed:

URL

Bonjour

The following items are displayed:

Computer Name (cname), Local Hostname (ether), Location, IP TTL, LinkLocal Route for Multi I/F

SNMP

The following items are displayed:

SNMPv1v2, SNMPv3, protocol, v1Trap, v2Trap, v3Trap, SNMPv1v2 Remote Setting, SNMPv3 Privacy

ssh

The following items are displayed:

Compression, Port, TimeOut, LoginTimeOut

Certificate

The following item is displayed:

Verification

IEEE 802.1X

The following items are displayed:

User name, Domain name, EAP Type, Password, Phase 2 user name, Phase 2 Method TTLS, Phase 2 Method PEAP, Server cert, Intermediate CA, Server ID, Sub domain

3

Shell mode

"User mode" is displayed.

Message List

This is a list of messages that appear in the machine's system log. The system log can be viewed using the "syslog" command.

System Log Information

Use the following command to display the system log information:

- UNIX: Use the "syslog" parameter and the "rsh", "rcp", "ftp", and "sftp" commands. "rsh" and "rcp" cannot be used in a Windows environment.
- telnet: Use the "syslog" command.

3

Message	Problem and solutions
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: <ul style="list-style-type: none"> • Security option is not installed. • Encryption password has not been specified.
add_sess_IPv4: bad trap addr: <IPv4 address>, community: <community name>	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>	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.	The same community name already exists. Use another community name.
add_sess_IPv6: community <community name> already defined.	The same community name already exists. Use another community name.

Message	Problem and solutions
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)
child process exec error ! (process name)	The network service failed to start. Turn the machine off and then on. If this does not work, contact your sales or service representative.
Connected DHCP server (<DHCP server address>).	The IP address was successfully received from the DHCP server.
Connected DHCPv6 server (<DHCP server IPv6 address>)	The IP address was successfully received from the DHCPv6 server.
connection from <IP address>	A user logged in from the host <IP address>.
Current Interface Speed: xxx Mbps	Speed of the network (10 Mbps or 100 Mbps).
Current IP address (<current IP address>).	The IP address <current IP address> was acquired from the DHCP server.
DHCP lease time expired.	The DHCP lease time has expired. Perform the DHCP discover again. The IP address you have been using is no longer available.
DHCP server not found.	The DHCP server was not found. Make sure that the DHCP is on the network.
DHCPv6 server not found.	The DHCPv6 server was not found. Make sure that the DHCPv6 is on the network.
Duplicate IP=<IP address>(from <MAC address>).	A conflicting IPv4 or IPv6 address was used. Each IPv4 or IPv6 address must be unique. Check the device address in [MAC address].
httpd start.	The httpd has started.
(IKE phase-1) mismatched authentication type: local=<authentication type 1> remote=<authentication type 2>	This machine's <authentication type 1> in IKE phase 1 does not match the communicating host's <authentication type 2>, Make sure this machine's ISAKMP SA authentication type matches that of the communicating host.

Message	Problem and solutions
(IKE phase-1) mismatched encryption type: local=<encryption algorithm 1> remote=<encryption algorithm 2>	This machine's ISAKMP SA Oakley group <encryption algorithm 1> in IKE phase 1 does not match the communicating host's ISAKMP SA Oakley group < encryption algorithm 2>, Make sure this machine's ISAKMP SA Oakley group matches that of the communicating host.
(IKE phase-1) mismatched DH group: local=<DH group number 1> remote=<DH group number 2>	This machine's ISAKMP SA Oakley group <DH group number 1> in IKE phase 1 does not match the communicating host's ISAKMP SA Oakley group <DH group number 2>, Make sure this machine's ISAKMP SA Oakley group matches that of the communicating host.
(IKE phase-1) mismatched hash type: local=<Hash Algorithm 1> remote=<Hash Algorithm 2>	This machine's ISAKMP SA <Hash Algorithm 1> in IKE phase 1 does not match the communicating host's ISAKMP SA <Hash Algorithm 2>, Make sure this machine's ISAKMP SA Hash Algorithm matches that of the communicating host.
IKE [% s] is disable, set PSK text.	The specified IKE entry invalid. Enter the PSK text.
inetd start.	The inetd service has started.
Interface (interface name): Duplicate IP Address (<IP address>).	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 > started with IP: < IP address >	IP address (IPv4 or IPv6 address) has been set for the interface and is operating.
< Interface >: Subnet overlap.	The same IP address (IPv4, or IPv6 address) and the subnet mask is used with other device.
LeaseTime=<lease time>(sec), RenewTime=<renew time>(sec).	The resource lease time received from the DHCP server is displayed in [lease time] in seconds. The renewal time is displayed in [renew time] in seconds.
Manual [%s] is disable, set authentication key.	The specified manual SA entry is invalid. Set the authentication key.
Manual [%s] is disable, set encryption key.	The specified manual SA entry is invalid. Set the authentication key.

Message	Problem and solutions
Name registration failed. name=<NetBIOS name>	Name registration of <NetBIOS Name> failed. Change to a different NetBIOS name.
Name registration success in Broadcast name=<NetBIOS name>	Name registration by <NetBIOS Name> broadcast was successful.
Name registration success. WINS server=<WINS server address> NetBIOS Name=<NetBIOS name>	Name registration of <NetBIOS Name> to <WINS server address> was successful.
nbttd start.	The nbttd (NetBIOS over TCP/IP Daemon) has started.
print sessions full	No more print jobs can be accepted. Wait a while before sending any more print jobs.
session_IPv4 <community name> not defined.	The requested community name is not defined.
session_IPv6 <community name> not defined.	The requested community name is not defined.
shutdown signal received. network service rebooting...	The network is rebooting.
smbd start. (NetBIOS)	SMBD (Server Message Block Daemon) has been started.
SMTPC: failed to get smtp server ip-address.	<p>The SMTP server IP address could not be obtained. This could be because:</p> <ul style="list-style-type: none"> • 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.

Message	Problem and solutions
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 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.

Message	Problem and solutions
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.
Snmpd Start.	The snmpd has started. This message is displayed only when the power is turned on.
started.	The IKE service has started.
Started.	The bonjour (rendezvous) function has started.
terminated.	The IKE service has stopped because no configurations for manual SA or IKE exist.
Terminated.	The bonjour (rendezvous) function is disabled.
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.
trap account is unavailable.	v3Trap cannot be sent. This could be because the Trap destination account is different from the account specified by the machine.
Updated (option name)(value) via DHCPv6 Server	The parameter obtained from the DHCP server has been updated.
usbd is disabled.	Plug and Play is unavailable because the machine is in Security Mode. Enable USBD in Security Mode.
WINS name registration: No response to server (WINS server address)	There was no response from the WINS server. Check that the correct WINS server address is entered. Also, check that the WINS server is functioning properly.
WINS wrong scopeID=<scope ID>	The scope ID is invalid. Use a valid scope ID.

4. Registering Users

This chapter describes how to register users in the Address Book. For details on how to access System Settings, see p.14 "Accessing User Tools".

Address Book

This section describes Address Book settings.

Registering information such as the names of users in the Address Book allows you to manage them easily.

We recommend you back up the Address Book regularly.

For details about backing up/restoring the Address Book, see p.32 "Administrator Tools".

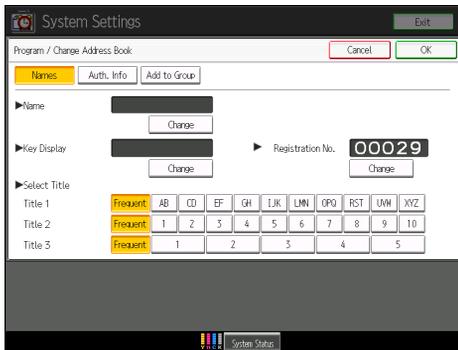
★ Important

- **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.**
- **User codes are used for authentication. If necessary, register user codes matching the codes specified in the printer function. For details about how to register codes for the printer function, see the manual provided for the printer function.**

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

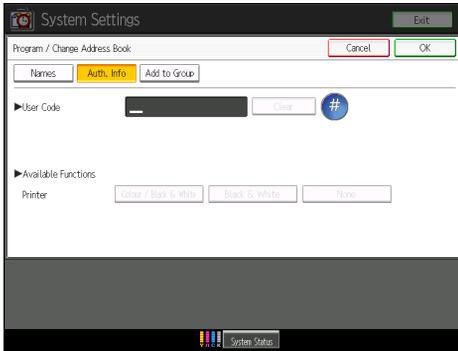
Names

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



Auth. Info

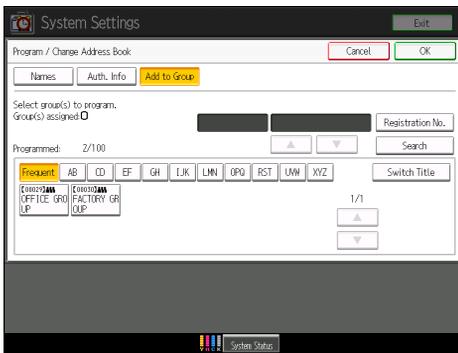
You can register user codes in order to restrict particular functions to certain users, and to check their use of each function.



Add to Group

4

You can put registered names of users into a group for easier management.



↓ Note

- You can also use Web Image Monitor to register names in the Address Book.
- Using Web Image Monitor, you can backup Address Book data. We recommend backing up data when using the Address Book.
- For details about using Web Image Monitor, see Web Image Monitor Help.

Managing users and machine usage

Registering user codes enables you to restrict and monitor printer usage.

↓ Note

- For details about registering user codes, see p.117 "Authentication Information".

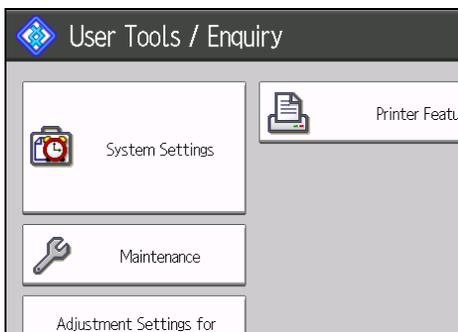
Registering Names

Register user information including their names.

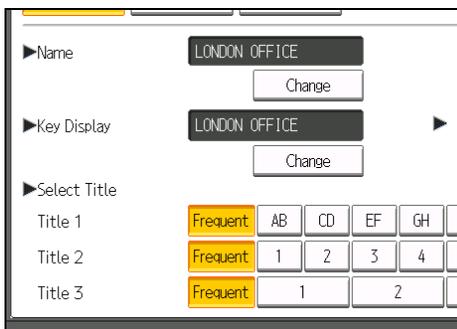
You can register up to 500 names.

Registering Names

1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Address Book Management].
5. Check that [Program / Change] is selected.
6. Press [New Program].
7. Press [Change] under "Name".
8. Enter the name, and then press [OK].
9. Press the key for the classification you want to use under "Select Title".



The keys you can select are as follows:

- [Frequent]: Added to the page that is displayed first.

- [AB], [CD], [EF], [GH], [IJK], [LMN], [OPQ], [RST], [UVW], [XYZ], [1] to [10]: Added to the list of items in the selected title.

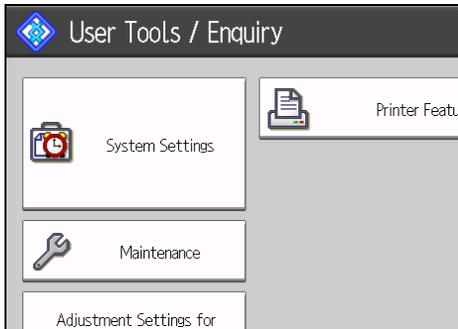
You can select [Frequent] and one more page for each title.

10. Press [OK].
11. Press [Exit].
12. Press the [User Tools] key.

Changing a Registered Name

4

1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Address Book Management].
5. Check that [Program / Change] is selected.
6. Select the registered name you want to change.

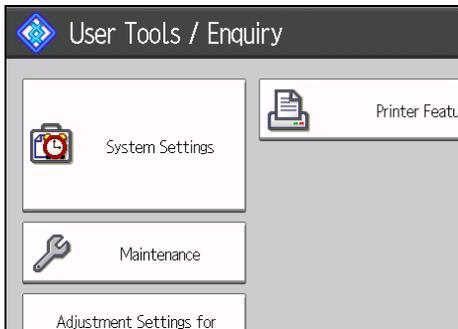
Press the name key, or enter the registered number using the number keys.

You can search by the registered name or user code.

7. To change the name or key display, press [Change] under "Name" or "Key Display".
8. Enter the name or key display, and then press [OK].
9. To change the title, press the key for the classification you want to use from "Select Title".
10. Press [OK].
11. Press [Exit].
12. Press the [User Tools] key.

Changing a Registration number

1. Press the [User Tools] key.
2. Press [System Settings].

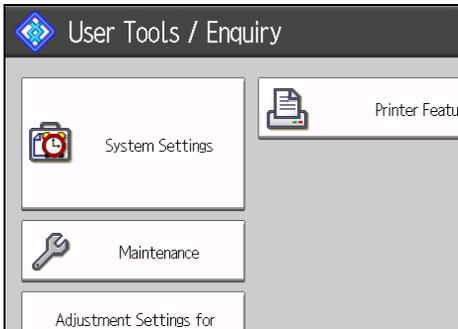


3. Press [Administrator Tools].
4. Press [Address Book Management].
5. Check that [Program / Change] is selected.
6. Select the registered name you want to change.
 Press the name key, or enter the registered number using the number keys.
 You can search by the registered name or user code.
7. Press [Change] under "Registration No.".
8. Enter a new registration number using the number keys, and then press the [#] key.
9. Press [OK].
10. Press [Exit].
11. Press the [User Tools] key.

Deleting a Registered Name

1. Press the [User Tools] key.

2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Address Book Management].

5. Press [Delete].

6. Select the name you want to delete.

Press the name key, or enter the registered number using the number keys.

You can search by the registered name or user code.

7. Press [Yes].

8. Press [Exit].

9. Press the [User Tools] key.

Authentication Information

Following describes the procedure for authenticating a user code.

★ Important

- 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.

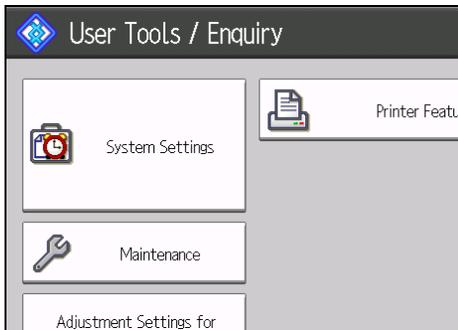
Registering user codes enables you to restrict and monitor printer usage.

↓ Note

- You can register up to 500 user codes.
- To automatically register the printer driver user code, select [PC Control] 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 registering user codes for the printer driver, see the manual provided for the printer function.

Registering a User Code

1. Press the [User Tools] key.
2. Press [System Settings].

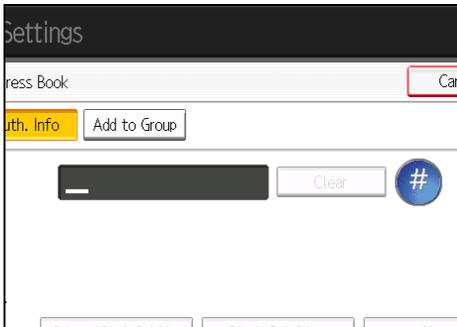


3. Press [Administrator Tools].
4. Press [Address Book Management].
5. Check that [Program / Change] is selected.
6. Press the name whose code is to be registered, or enter the registered number using the number key.

You can search by the registered name or user code.

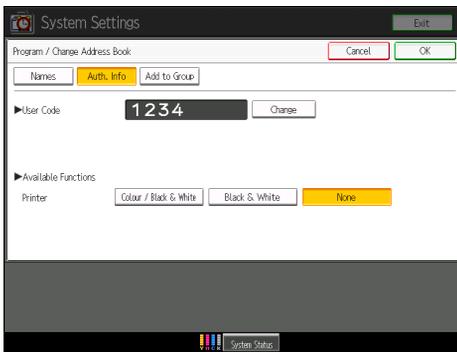
7. Press [Auth. Info].

8. Enter the user code using the number keys, and then press the [#] key.



If you make a mistake, press [Clear] or the [Clear] key.

9. Select the functions to be used with the user code from "Available Functions".



10. Press [OK].
11. Press [Exit].
12. Press the [User Tools] key.

Note

- You can enter a one-to eight-digit user code.
- To register the name, see p. 113 "Registering Names".

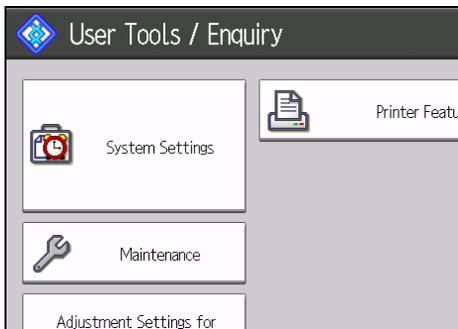
Changing a User Code

★ Important

- Even if you change a user code, the counter value will not be cleared.

1. Press the [User Tools] key.

2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Address Book Management].

5. Check that [Program / Change] is selected.

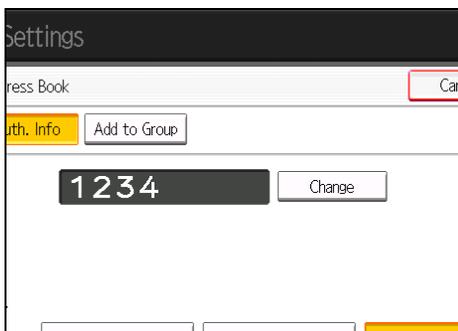
6. Select the user whose user code you want to change.

Press the name key, or enter the registered number using the number keys.

You can search by the registered name or user code.

7. Press [Auth. Info].

8. Press [Change], and then enter the new user code using the number keys.



9. Press the [#] key.

10. Press the key to select the functions to enable them.

Press the key to highlight it, and then the function is enabled.

11. Press [OK].

12. Press [Exit].

13. Press the [User Tools] key.

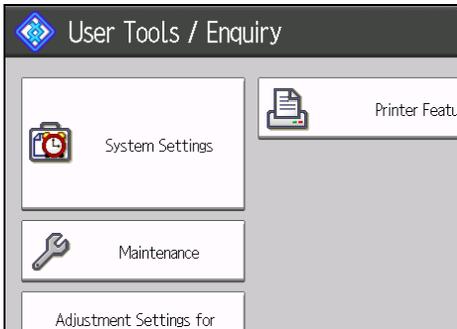
↓ Note

- To change the name, key display and title, see p.113 "Registering Names".

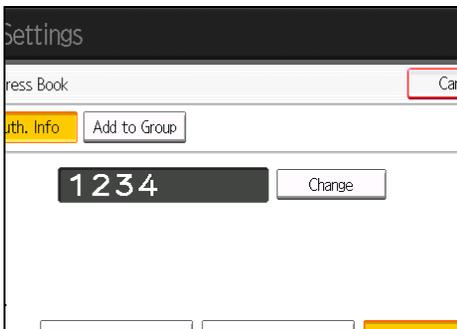
Deleting a User Code

★ Important

- After clearing the user code, the counter is automatically cleared.
1. Press the [User Tools] key.
 2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Address Book Management].
5. Press [Program / Change].
6. Select the name whose code is to be deleted.
Press the name key, or enter the registered number using the number keys.
You can search by the registered name or user code.
7. Press [Auth. Info].
8. Press [Change] to delete the user code, and then press the [#] key.



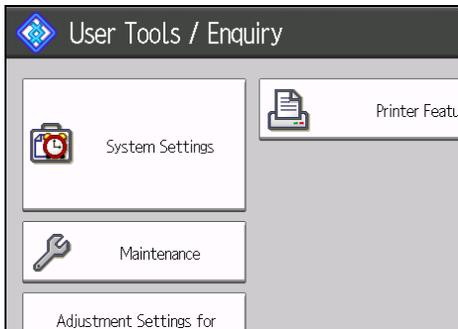
9. Press [OK].
10. Press [Exit].
11. Press the [User Tools] key.

↓ Note

- To delete a name from the Address Book entirely, see p.113 "Registering Names".

Displaying the Counter for Each User

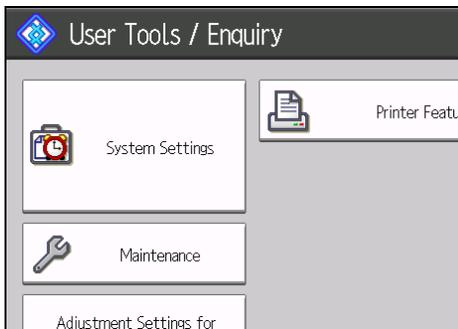
1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Display / Clear / Print Counter per User].

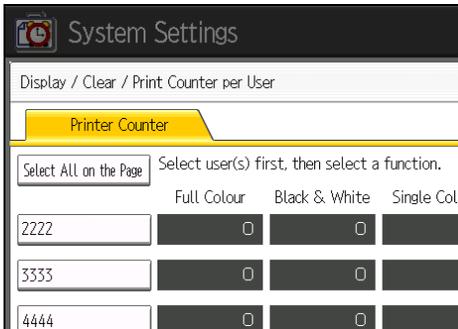
Printing the Counter for Each User

1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Display / Clear / Print Counter per User].

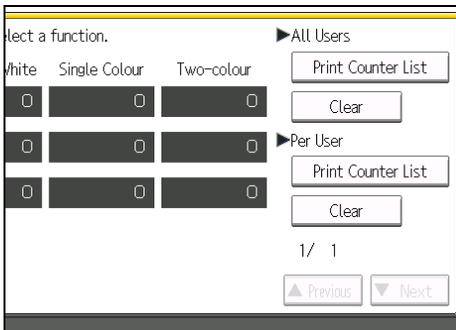
5. Select a user code from the left side of the display.



Press [Select All on the Page] to select all user codes on the page.

4

6. Press [Print Counter List] under "Per User".

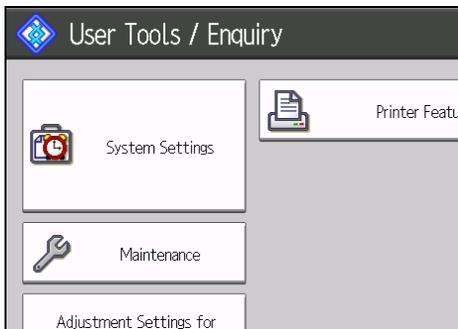


7. Select the function usage you want to print from [Printer Counter] and [Total Prints].
8. Press [Print].
9. Press [Exit].
10. Press the [User Tools] key.

Printing the Counter for All Users

1. Press the [User Tools] key.

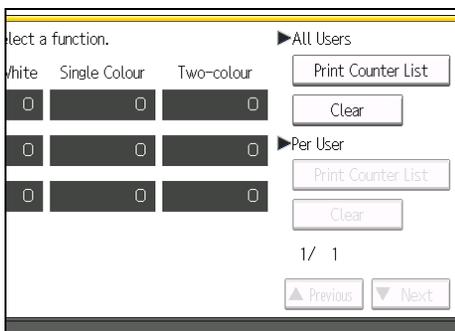
2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Display / Clear / Print Counter per User].

5. Press [Print Counter List] under "All Users".



6. Select the function usage you want to print from [Printer Counter] and [Total Prints].

7. Press [Print].

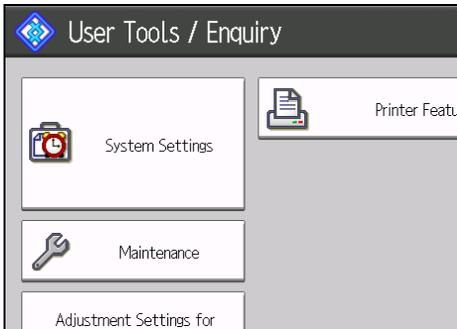
8. Press [Exit].

9. Press the [User Tools] key.

Clearing the Number of Prints

1. Press the [User Tools] key.

2. Press [System Settings].

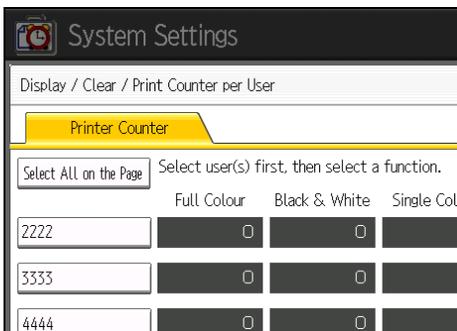


3. Press [Administrator Tools].

4. Press [Display / Clear / Print Counter per User].

5. Select the user code to clear.

6. To clear the number of prints made under a user code, select the user code from the left side of the display.



Press [Select All on the Page] to select all user codes on the page.

7. Press [Clear] under "Per User".

8. Select the function usage you want to clear from [Printer Counter] and [All Counters].

9. Press [OK].

10. To clear the number of prints for all user codes, press [Clear] under "All Users".

11. Select the function usage you want to clear from [Printer Counter] and [All Counters].

12. Press [OK].

13. Press [Exit].

14. Press the [User Tools] key.

Registering Names to a Group

You can register names to a group to enable easy management.

To add names to a group, the groups must be registered beforehand.

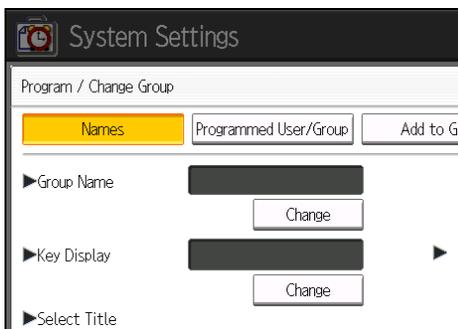
You can register up to 100 groups.

Registering a Group

1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Address Book: Program / Change / Delete Group].
5. Check that [Program / Change] is selected.
6. Press [New Program].
7. Press [Change] under "Group Name".



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

The Key Display name is set automatically.

9. Press the title key under "Select Title", if necessary.

The keys you can select are as follows:

- [Frequent]: Added to the page that is displayed first.
- [AB], [CD], [EF], [GH], [IJK], [LMN], [OPQ], [RST], [UVW], [XYZ], [1] to [10].
Added to the list of items in the selected title.

You can select [Frequent] and one more page for each title.

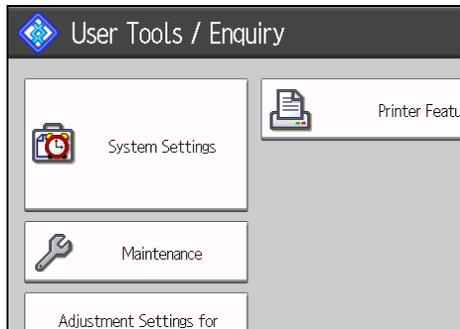
10. When you want to change the key display, press [Change] under "Key Display".**11. Enter the key display, and then press [OK].****12. Press [OK].****13. Press [Exit].****14. Press the [User Tools] key.**

Registering Names to a 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] key.**
- 2. Press [System Settings].**



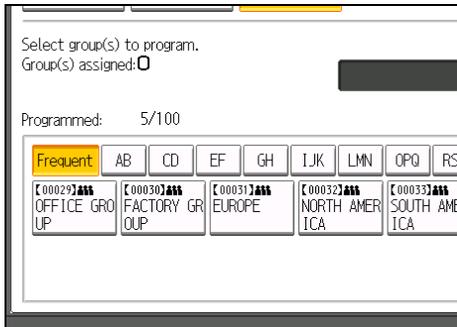
- 3. Press [Administrator Tools].**
- 4. Press [Address Book Management].**
- 5. Check that [Program / Change] is selected.**
- 6. Select the name to register in a group.**

Press the name key, or enter the registered number using the number keys.

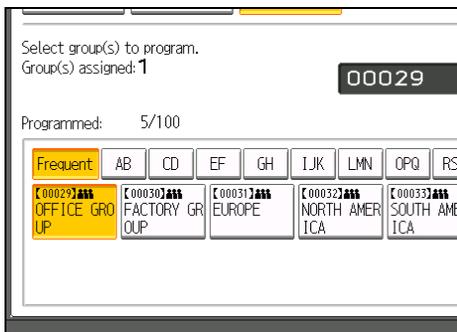
You can search by the registered name or user code.

- 7. Press [Add to Group].**

8. Select a group to which you want to add the name.



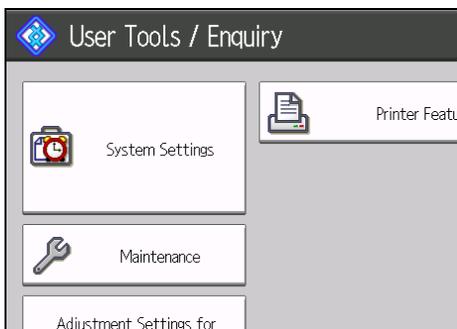
The group key that you have selected becomes highlighted, and the name is added to it.



9. Press [OK].
10. Press [Exit].
11. Press the [User Tools] key.

Adding a Group to Another Group

1. Press the [User Tools] key.
2. Press [System Settings].

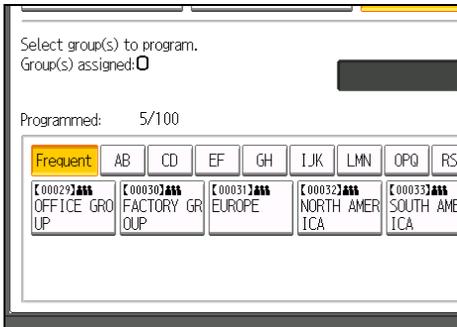


3. Press [Administrator Tools].

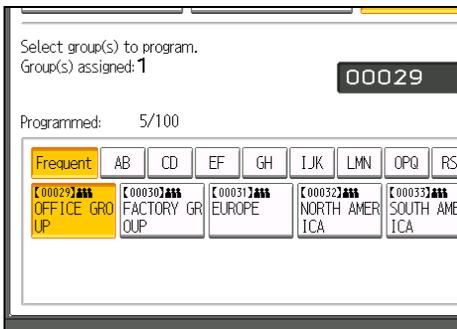
4. Press [Address Book: Program / Change / Delete Group].
5. Check that [Program / Change] is selected.
6. Select the group that you want to put into another group.

Press the group key, or enter the registered number using the number keys.

You can search by the registered name.
7. Press [Add to Group].
8. Select the group to which you want to add.



The group key that you have selected becomes highlighted, and the group is added to it.



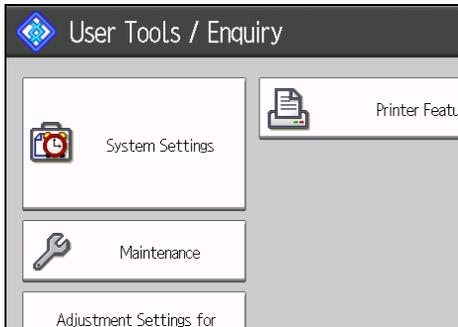
9. Press [OK].
10. Press [Exit].
11. Press the [User Tools] key.

Displaying Names Registered in a Group

You can check the names or groups registered in each group.

1. Press the [User Tools] key.

2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Address Book: Program / Change / Delete Group].

5. Check that [Program / Change] is selected.

6. Select the group where the members you want to check is registered.

You can search by the registered name.

7. Press [Programmed User/Group].

All the names registered will be displayed.

8. Press [OK].

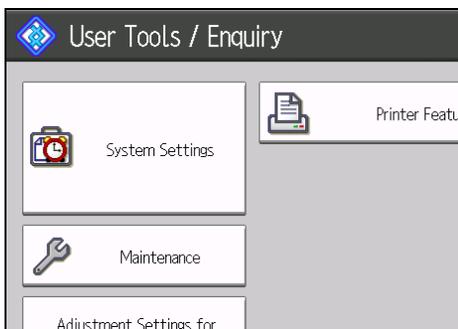
9. Press [Exit].

10. Press the [User Tools] key.

Removing a Name from a Group

1. Press the [User Tools] key.

2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Address Book Management].

5. Check that [Program / Change] is selected.

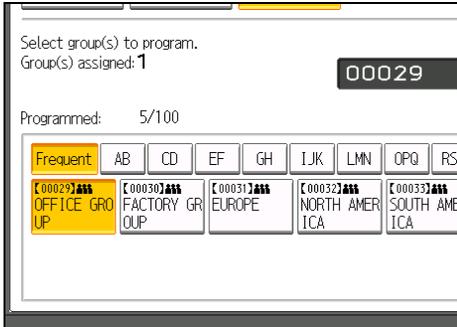
6. Select the name to remove from a group.

Press the name key, or enter the registered number using the number keys.

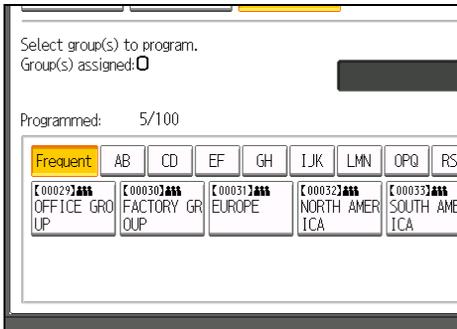
You can search by the registered name or user code.

7. Press [Add to Group].

8. Select the group from which you want to remove the name.



The group key is deselected and the name is removed from it.



9. Press [OK].

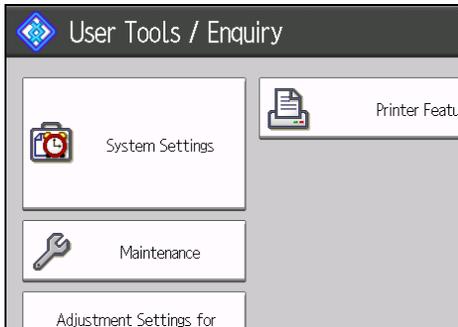
10. Press [Exit].

11. Press the [User Tools] key.

Deleting a Group Within Another Group

1. Press the [User Tools] key.

2. Press [System Settings].



3. Press [Administrator Tools].

4. Press [Address Book: Program / Change / Delete Group].

5. Check that [Program / Change] is selected.

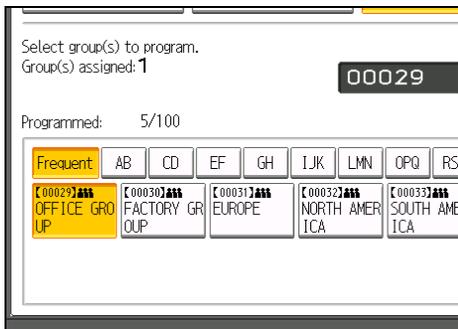
6. Select the group that you want to delete from.

Press the group key, or enter the registered number during the number keys.

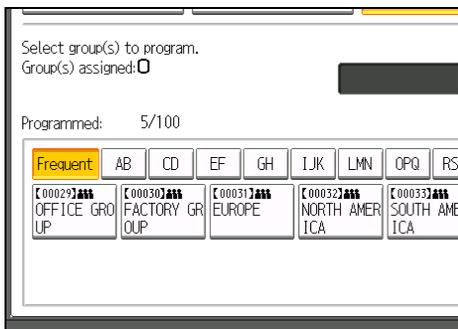
You can search by the registered name.

7. Press [Add to Group].

8. Select the group that you want to delete from.



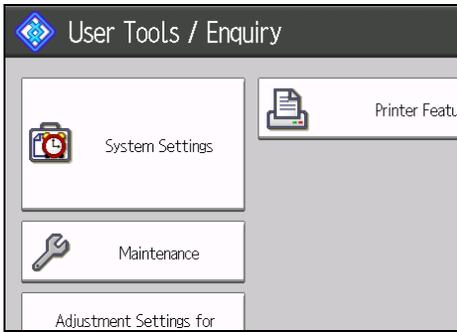
The group key is deselected and the group is deleted from it.



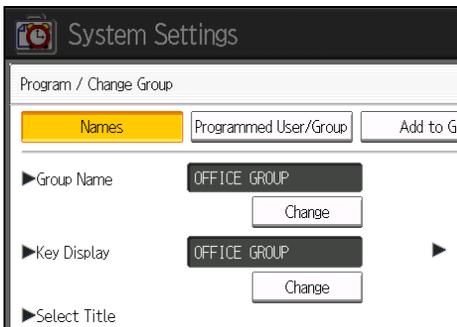
9. Press [OK].
10. Press [Exit].
11. Press the [User Tools] key.

Changing a Group Name

1. Press the [User Tools] key.
2. Press [System Settings].



3. Press [Administrator Tools].
4. Press [Address Book: Program / Change / Delete Group].
5. Check that [Program / Change] is selected.
6. Press the group key you want to change.
You can search by the registered name.
7. To change the group name and key display, press [Change] under "Group Name" or "Key Display".

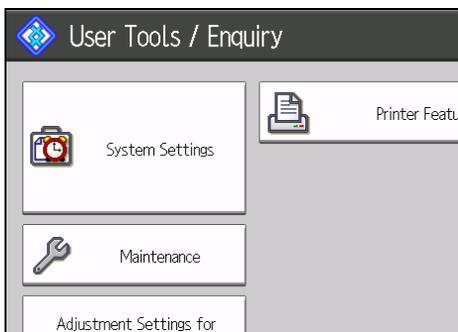


8. Enter the new group name or key display, and then press [OK].
9. To change the title, press the title key under "Select Title".
10. To change the registration number, press [Change] under "Registration No.".
11. Enter the new registration number using the number keys.

12. Press the [#] key.
13. Press [OK].
14. Press [Exit].
15. Press the [User Tools] key.

Deleting a Group

1. Press the [User Tools] key.
2. Press [System Settings].



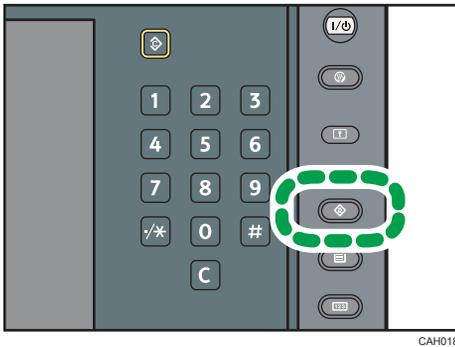
3. Press [Administrator Tools].
4. Press [Address Book: Program / Change / Delete Group].
5. Press [Delete].
6. Press a group key you want to delete.
You can search by the registered name.
7. Press [Yes].
8. Press [Exit].
9. Press the [User Tools] key.

5. Adjustment Settings for Operators

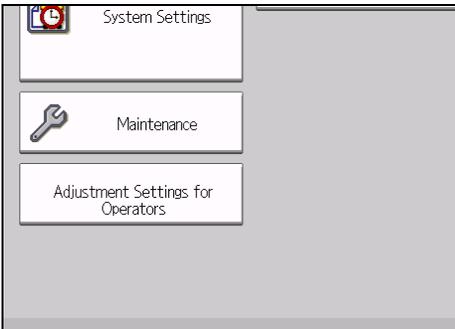
This section explains Adjustment Settings for Operators and how to specify them.

Accessing the Adjustment Settings for Operators

1. Press the [User Tools] key.



2. Press [Adjustment Settings for Operators].



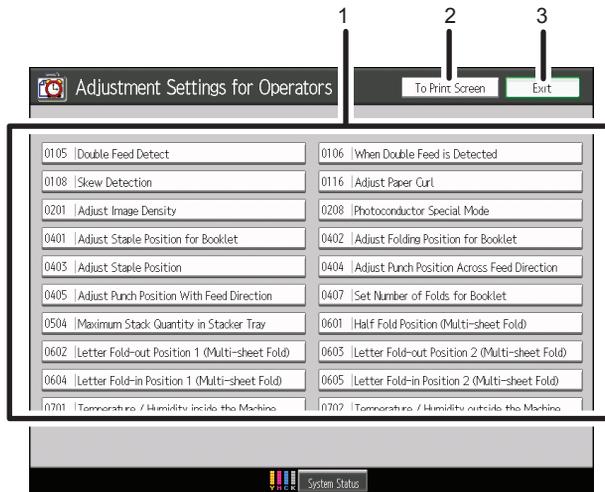
3. Select and change adjustment settings.

The method for changing the selected adjustment setting depends on the setting that you want to change. For details, see p.137 "Features of the Displayed Items and Setting Operations".

4. Press [Back].
5. Press [Exit].
6. Press the [User Tools] key.

Layout of the Adjustment Settings for Operators

This section explains how to use the Adjustment Settings for Operators.



CWE013

1. Adjustment items are displayed in this area. When you select an item, its configuration screen will then open.
2. Press this button to display the print screen. You can use this screen to view the changes you have made.
3. Press this button to close the Adjustment Settings for Operators menu.

Features of the Displayed Items and Setting Operations

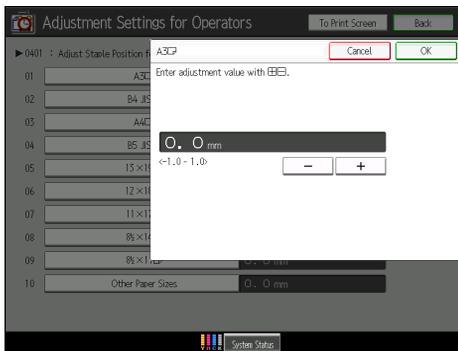
The following operations are available for each adjustment item:

- Value setting
- Item setting
- Executing
- Display only

Value setting

Press **[+]** to increase the value, or **[-]** to decrease.

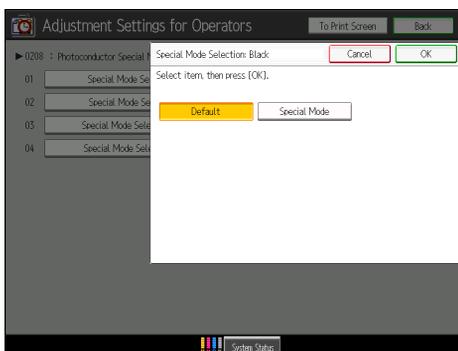
Select **[OK]** to apply the new setting.



Item setting

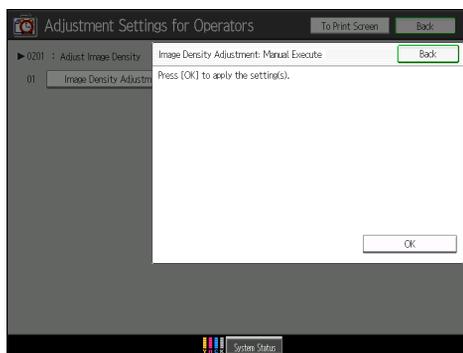
Select the item you require.

Select **[OK]** to apply the new setting.



Executing

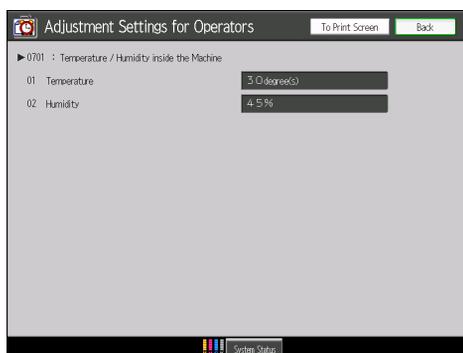
Press **[OK]** to perform a selected function.



Display Only

You can check the setting of the selected item.

5



Printing with adjusted settings

To print with the settings you have adjusted, be sure to select the paper tray and paper size to which the settings apply.

- Settings adjustable for each paper tray
- Settings adjustable for each paper size

Settings adjustable for each paper tray

These are settings adjustable for each paper tray.

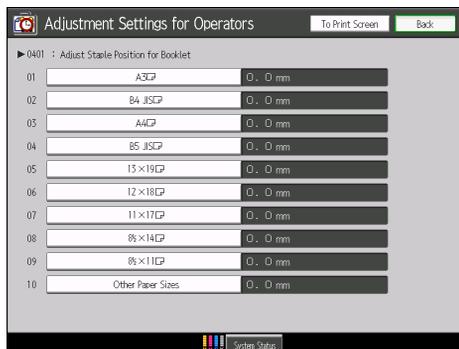
Print jobs are processed with the adjusted settings when printing from a tray with the applied settings.



Settings adjustable for each paper size

These are settings adjustable for each paper size.

Print jobs are processed with the adjusted settings when printing with a paper size that has the applied settings.



Note

- For details about selecting the paper tray and paper size for printing, see the manuals for the related functions.

Menu Items and Functions

Note

- All items in Adjustment Settings for Operators appear regardless of which of the machine's optional components are installed. If you change the settings of options that are not installed, the changes will have no effect.

Image Quality Adjustment

For details about the following items, see p. 143 "Image Quality Adjustment".

No.	Item	Description
0201	Adjust Image Density	Execute image density control manually.
0208	Photoconductor Special Mode	Increase the amount of lubricant applied to the photoconductor.

5

Paper Feed Adjustment

For details about the following items, see p. 144 "Paper Feed Adjustment".

No.	Item	Description
0105	Double Feed Detect	Specify whether or not to detect paper double feeding. This setting is not effective for paper fed from paper trays with custom paper presets.
0106	When Double Feed is Detected	Specify how the machine behaves when it detects a double feed.
0108	Skew Detection	Specify whether or not to detect paper skew. This setting is not effective for paper fed from paper trays with custom paper presets.

Monitoring

For details about the following items, see p. 146 "Monitoring".

No.	Item	Description
0701	Temperature / Humidity inside the Machine	Display the internal temperature and humidity.
0702	Temperature / Humidity outside the Machine	Display the external temperature and humidity.

Finishing

For details about the following items, see p.146 "Finishing".

No.	Item	Description
0401	Adjust Staple Position for Booklet	Adjust the horizontal position of the booklet staples when using Booklet Finisher SR5040.
0402	Adjust Folding Position for Booklet	Adjust the horizontal position of the folding when using Booklet Finisher SR5040.
0403	Adjust Staple Position	Adjust the vertical position of the staples when using Finisher SR5030 or Booklet Finisher SR5040.
0404	Adjust Punch Position Across Feed Direction	Adjust the vertical position of the punch holes when using Finisher SR5030 or Booklet Finisher SR5040.
0405	Adjust Punch Position With Feed Direction	Adjust the horizontal position of the punch holes when using Finisher SR5030 or Booklet Finisher SR5040.
0407	Set Number of Folds for Booklet	Adjust the paper folding strength by increasing or decreasing the number of folds for booklets when using Booklet Finisher SR5040.
0601	Half Fold Position (Multi-sheet Fold)	Adjust the fold position of half fold sheets when using the multi-folding unit.
0602	Letter Fold-out Position 1 (Multi-sheet Fold)	Adjust the fold position for the bottom segment of letter fold-out sheets when using the multi-folding unit.
0603	Letter Fold-out Position 2 (Multi-sheet Fold)	Adjust the overall fold size of letter fold-out sheets when using the multi-folding unit.
0604	Letter Fold-in Position 1 (Multi-sheet Fold)	Adjust the fold position of the bottom segment of letter fold-in sheets when using the multi-folding unit.
0605	Letter Fold-in Position 2 (Multi-sheet Fold)	Adjust the overall fold size of letter fold-in sheets when using the multi-folding unit.

Other Functions

For details about the following items, see p.155 "Other Functions".

No.	Item	Description
0116	Adjust Paper Curl	Specify the method for straightening curled sheets. Select the method according to the direction and degree of curl.
0504	Maximum Stack Quantity in Stacker Tray	Set the maximum number of sheets for the stacker tray.

Setting Values

Image Quality Adjustment

0201: Adjust Image Density

Execute image density control manually.

The machine adjusts the image density. This operation takes about 30 seconds during which a message appears on the control panel. Do not open the front covers while the message is being displayed.

If the density does not change after applying this function several times, contact your sales or service representative.

Setting Items	Selection
Image Density Adjustment: Manual Execute	Press [OK].

5

↓ Note

- The machine executes automatic image density adjustment after a set interval or after printing a specified number of sheets. However, you can also manually initiate automatic image density adjustment whenever you want.

0208: Photoconductor Special Mode

Increase the amount of lubricant applied to the photoconductor.

If you continuously print images that consume a lot of toner, white spots may appear because of a lack of lubricant. If this happens, you can prevent the spots by selecting [Special Mode].

In Special Mode, the replacement cycle of the cleaning unit for the PCU is shorter because of the increased amount of lubricant that is applied.

Setting Items	Selection	Default Value
Special Mode Selection: Black	Default	Default
Special Mode Selection: Cyan	Special Mode	
Special Mode Selection: Magenta		
Special Mode Selection: Yellow		

Paper Feed Adjustment

0105: Double Feed Detect

Specify whether or not to detect paper double feeding.

If this is set to "On", the machine detects double feeding and so prevents blank sheets turning up in the delivered paper.

The machine may erroneously detect double feeding when using special paper (double-layer paper, such as label paper). If such erroneous detection occurs, set this to "Off".

This setting is not effective for paper fed from paper trays with custom paper presets. For such paper, the value specified in [04: Double Feed Detect] in [Advanced Settings] is used. For details about Advanced Settings, ask the machine administrator.

5

Setting Items	Selection	Default Value
Tray 1	On	On
Tray 2	Off	
Tray 3		
Tray 4		
Tray 5		
Tray 6		

0106: When Double Feed is Detected

Specify how the machine responds when it detects a double feed.

If you set this to "Suspended", the machine, on detecting a double feed, stops printing and displays a paper misfeed message.

If you set this to "Auto Eject", the machine will deliver double-fed sheets to the paper discharge bin on the bottom left of the machine and display a message asking whether to continue printing or stop.

Setting Items	Selection	Default Value
Tray 1	Auto Eject	Auto Eject
Tray 2	Suspended	
Tray 3		
Tray 4		
Tray 5		
Tray 6		

0108: Skew Detection

Specify whether or not to detect paper skew.

If the machine detects a paper skew when this is set to "On", it will stop printing and display a message reporting a paper jam.

The machine may erroneously detect paper skew when using dark paper or paper printed to its edges. In such a case, set this to "Off".

This setting is not effective for paper fed from paper trays with custom paper presets. For such paper, the value specified in [05: Skew Detection] in [Advanced Settings] is used. For details about Advanced Settings, ask the machine administrator.

Setting Items	Selection	Default Value
Tray 1	On	On
Tray 2	Off	
Tray 3		
Tray 4		
Tray 5		
Tray 6		
Side 2		

5

0116: Adjust Paper Curl

Specify the method for straightening curled sheets. Select the method according to the direction and degree of curl. If the paper is curled face up, select "∩Curl". If it is curled face down, select "∪Curl". Depending on how much the paper is curled, specify the degree of correction by selecting "Weak" or "Strong".

Setting Items	Selection	Default Value
Tray 1	Adjust ∪ Curl: Off	Adjust ∩ Curl: Off
Tray 2	Adjust ∪ Curl: Weak	
Tray 3	Adjust ∪ Curl: Strong	
Tray 4	Adjust ∩ Curl: Off	
Tray 5	Adjust ∩ Curl: Weak	
Tray 6	Adjust ∩ Curl: Strong	

Monitoring

0701: Temperature / Humidity inside the Machine

Display the internal temperature and humidity.

Report this information if your service representative requests it.

Setting Items	Remarks
Temperature Humidity	Value display only.

5

0702: Temperature / Humidity outside the Machine

Display the external temperature and humidity.

Report this information if your service representative requests it.

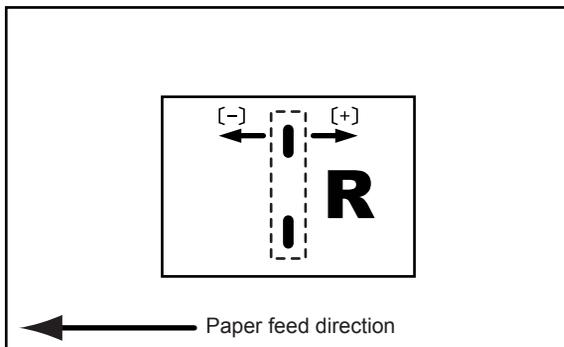
Setting Items	Remarks
Temperature Humidity	Value display only.

Finishing

0401: Adjust Staple Position for Booklet

Adjust the horizontal position of the booklet staples when using Booklet Finisher SR5040.

Press [+] to move the position right (across horizontally-spreading pages), or press [-] to move it left.



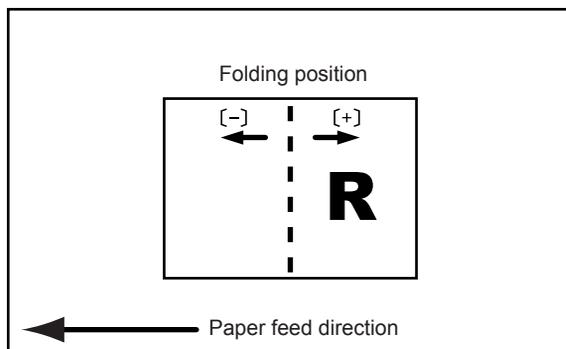
CDS024

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3 <input type="checkbox"/>	0.0	1.0	-1.0	0.2	mm
B4 JIS <input type="checkbox"/>					
A4 <input type="checkbox"/>					
B5 JIS <input type="checkbox"/>					
13×19 <input type="checkbox"/>					
12×18 <input type="checkbox"/>					
11×17 <input type="checkbox"/>					
8 ¹ / ₂ ×14 <input type="checkbox"/>					
8 ¹ / ₂ ×11 <input type="checkbox"/>					
Other Paper Sizes					

0402: Adjust Folding Position for Booklet

Adjust the horizontal position of the folding when using Booklet Finisher SR5040.

Press [**+**] to move the position right (across horizontally-spreading pages), or press [**-**] to move it left.



CDS025

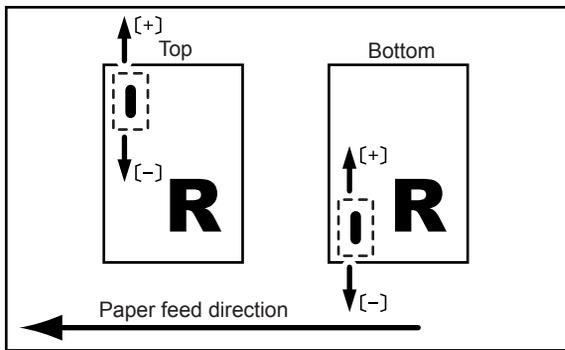
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3	0.0	1.0	-1.0	0.2	mm
B4 JIS					
A4					
B5 JIS					
13×19					
12×18					
11×17					
8 ¹ / ₂ ×14					
8 ¹ / ₂ ×11					
Other Paper Sizes					

5

0403: Adjust Staple Position

Adjust the vertical position of the staples when using Finisher SR5030 or Booklet Finisher SR5040.

Press [+] to move the position forward (up), or [-] to move it backward (down).



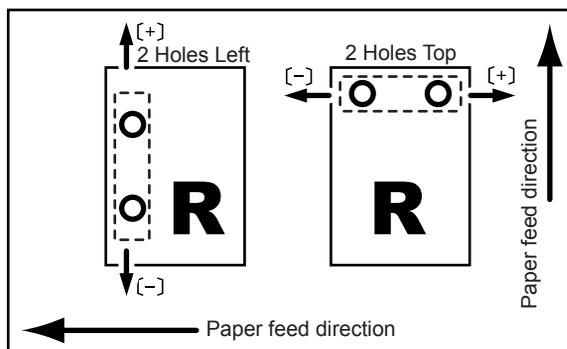
CDS028:

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3	0.0	1.0	-1.0	0.5	mm
B4 JIS					
A4					
A4					
B5 JIS					
B5 JIS					
11×17					
8 ¹ / ₂ ×14					
8 ¹ / ₂ ×11					
8 ¹ / ₂ ×11					
8K					
16K					
16K					
Other Paper Sizes					

0404: Adjust Punch Position Across Feed Direction

Adjust the vertical position of the punch holes when using Finisher SR5030 or Booklet Finisher SR5040.

Press [+] to move the position forward (up), or [-] to move it backward (down).



CDS027

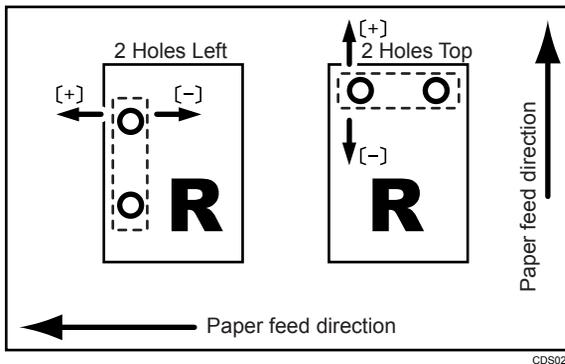
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
2 Holes Type JP / EU	0.0	2.0	-2.0	0.5	mm
3 Holes Type US					
4 Holes Type EU					
4 Holes Type NE					
2 Holes Type US					

0405: Adjust Punch Position With Feed Direction

Adjust the horizontal position of the punch holes when using Finisher SR5030 or Booklet Finisher SR5040.

5

Press **[+]** to move the position toward the top edge (left) relative to the paper feed direction, or **[-]** to move it toward the bottom edge (right).



CDS026

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
2 Holes Type JP / EU	0.0	4.0	-4.0	0.5	mm
3 Holes Type US					
4 Holes Type EU					
4 Holes Type NE					
2 Holes Type US					

0407: Set Number of Folds for Booklet

Specify the number of booklet folds to be performed when using the Booklet Finisher SR5040.

You can adjust the paper folding strength by changing the number of folds per the booklet.

When set to "0", the factory setting, the finisher performs one booklet fold. By increasing the number, you can increase the number of folds.

If set to "-1", folding is not performed.

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
Number of Folds for Booklet	0	9	-1	1	time(s)

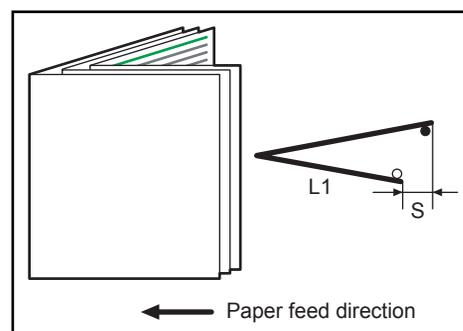
0601: Half Fold Position (Multi-sheet Fold)

Adjust the fold position (S) of half folded sheets when using the multi-folding unit.

This setting will be applied if the multi-sheet fold function is enabled.

Press [+] to increase and [-] to reduce (S).

The ○ mark indicates the leading edge (relative to the paper feed direction), and the ● mark indicates the trailing edge.



CDS014

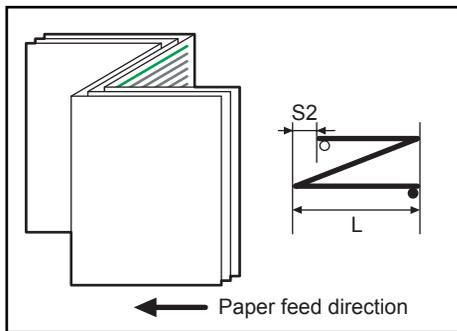
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3	0.0	4.0	-4.0	0.2	mm
B4 JIS					
A4					
B5 JIS					
13×19					
12×18					
11×17					
8 ¹ / ₂ ×14					
8 ¹ / ₂ ×11					
8K					
Other Paper Sizes					

0602: Letter Fold-out Position 1 (Multi-sheet Fold)

Adjust the fold position for the bottom segment (S2) of letter fold-out sheets when using the multi-folding unit. This setting will be applied if the multi-sheet fold function is enabled.

Press [+] to increase and [-] to reduce (S2).

The ○ mark indicates the leading edge (relative to the paper feed direction), and the ● mark indicates the trailing edge.



CDS015

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
B4 JIS	0.0	4.0	-4.0	0.2	mm
A4					

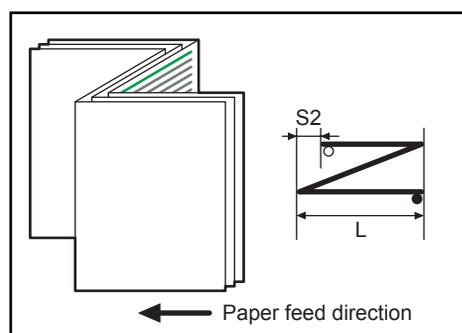
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
B5 JIS	0.0	3.0	-3.0	0.2	mm
8 ¹ / ₂ ×14 8 ¹ / ₂ ×11 Other Paper Sizes	0.0	4.0	-4.0	0.2	mm

0603: Letter Fold-out Position 2 (Multi-sheet Fold)

Adjust the overall fold size (L) of letter fold-out sheets when using the multi-folding unit. This setting will be applied if the multi-sheet fold function is enabled.

Press [+] to increase and [-] to reduce (L).

The ○ mark indicates the leading edge (relative to the paper feed direction), and the ● mark indicates the trailing edge.



CDS015

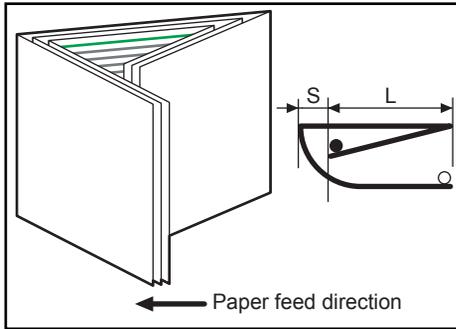
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
B4 JIS A4	0.0	4.0	-4.0	0.2	mm
B5 JIS	0.0	3.0	-3.0	0.2	mm
8 ¹ / ₂ ×14 8 ¹ / ₂ ×11 Other Paper Sizes	0.0	4.0	-4.0	0.2	mm

0604: Letter Fold-in Position 1 (Multi-sheet Fold)

Adjust the fold position of the bottom segment (S) of letter fold-in sheets when using the multi-folding unit. This setting will be applied if the multi-sheet fold function is enabled.

Press [+] to increase and [-] to reduce (S).

The ○ mark indicates the leading edge (relative to the paper feed direction), and the ● mark indicates the trailing edge.



5

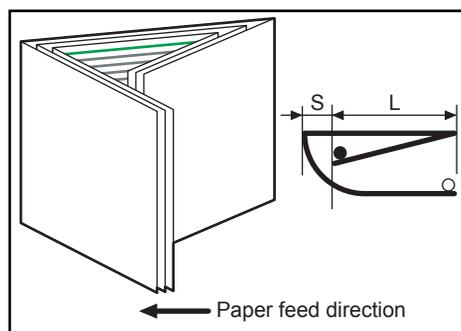
Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3 <input type="checkbox"/>	0.0	4.0	-4.0	0.2	mm
B4 JIS <input type="checkbox"/>					
A4 <input type="checkbox"/>					
B5 JIS <input type="checkbox"/>					
12×18 <input type="checkbox"/>					
11×17 <input type="checkbox"/>					
8 ¹ / ₂ ×14 <input type="checkbox"/>					
8 ¹ / ₂ ×11 <input type="checkbox"/>					
8K <input type="checkbox"/>					
Other Paper Sizes					

0605: Letter Fold-in Position 2 (Multi-sheet Fold)

Adjust the fold position (L) of letter fold-in sheets when using the multi-folding unit. This setting will be applied if the multi-sheet fold function is enabled.

Press [+] to increase and [-] to reduce (L).

The ○ mark indicates the leading edge (relative to the paper feed direction), and the ● mark indicates the trailing edge.



CDS017

Setting Items	Default Value	Max. Value	Min. Value	Step	Unit
A3 <input type="checkbox"/>	0.0	4.0	-4.0	0.2	mm
B4 JIS <input type="checkbox"/>					
A4 <input type="checkbox"/>					
B5 JIS <input type="checkbox"/>					
12×18 <input type="checkbox"/>					
11×17 <input type="checkbox"/>					
8 ¹ / ₂ ×14 <input type="checkbox"/>					
8 ¹ / ₂ ×11 <input type="checkbox"/>	0.0	4.0	0.0	0.2	mm
8K <input type="checkbox"/>	0.0	4.0	-4.0	0.2	mm
Other Paper Sizes					

Other Functions

0504: Maximum Stack Quantity in Stacker Tray

Set the maximum number of sheets for the stacker tray.

The maximum number of sheets you can set differs depending on the size, thickness, and paper curl.

Set the maximum number by specifying a ratio based on the number of sheets.

If the unit detects that the number of sheets reaches the set upper limit, a warning message will appear.

Setting Items	Selection	Default Value
Maximum Stack Quantity in Stacker Tray	100%	100%
	75%	
	50%	
	25%	

6. Appendix

This section explains how to use a DHCP server, a WINS server and Dynamic DNS. It also lists the machine's network specifications.

Using DHCP

You can use the machine in a DHCP environment. You can also register the machine NetBIOS name on a WINS server when it is running.

- Supported DHCP servers are Microsoft DHCP Server included with Windows 2000 Server, and Windows Server 2003/2003/2008/2008 R2, and the DHCP server included with NetWare and UNIX.
- If you do not use a WINS server, reserve the machine's IP address in a DHCP server so the same IP address is assigned every time.
- To use a WINS server, change the WINS server setting to "On" using the control panel.
- If you are not using a WINS server, use a DHCP server to allocate the IPv4 address to the machine.
- 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 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 machine.
- The IPv4 address allocated to the machine by the DHCP server is printed on the configuration page. For details about printing the configuration page, see p.27 "Print List".
- DHCP servers can operate in an IPv6 environment, but they cannot be configured to allocate IPv6 addresses or obtain host names.

6

Using AutoNet

If the machine 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 machine.

↓ Note

- 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. For details about printing the configuration page, see p.27 "Print List".
- When AutoNet is running, the NetBIOS name is not registered on the WINS server.
- The machine cannot communicate with devices that do not have the AutoNet function. However, this machine can communicate with Macintosh computers running Mac OS X 10.2.3. or higher.

Configuring the WINS Server

The machine can be configured to register its NetBIOS name with a WINS server when the power is turned on.

↓ Note

- The following WINS servers are supported: Windows 2000 Server and Windows Server 2003/2003 R2/2008/2008 R2.
- 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 15 alphanumeric characters.

Using Web Image Monitor

6

1. Log in to Web Image Monitor in the administrator mode.
2. In the menu area, click [Configuration].
3. Under "Network", click [IPv4].
4. Check that [Active] is selected for [WINS] in the [Ethernet] column, and then enter the WINS server IPv4 address in [Primary WINS Server] and [Secondary WINS Server].
5. Click [OK].
6. "Updating..." appears. Wait for about one or two minutes, and then click [OK].
7. Quit Web Image Monitor.

↓ Note

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".

Using telnet

You can also use telnet to configure WINS.

Use the "wins" command to make the setting with telnet.

↓ Note

- For details, see p.73 "Remote Maintenance Using 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 machine, a DNS client, is connected, records can be dynamically updated using this function.

Updating

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

To update the record using the machine, the DNS server has to have one of the following:

- No security settings are made.
- If security settings are made, an IP-specified client (this machine) permits updating.

★ Important

- **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. When you register the A record, you can also register the CNAME. CNAMEs that can be registered are as follows:

- Ethernet
RNPXXXXXX (XXXXXX represents the last 3 hexadecimal bytes of the MAC address)
However, if CNAME (RNPXXXXXX) overlaps with the host name, CNAME will not be registered.

For DHCPv4 settings

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

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

When you register the A record, you can also register the CNAME. 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.

Note

- When the dynamic DNS function is not used, records managed by the DNS server must be updated manually, if the machine's IP address is changed.
- CNAME registration is factory set to off. To enable it, use the telnet dns command. For details, see p.73 "Remote Maintenance Using telnet".

DNS servers targeted for operation

For static IP setting

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003/2003 R2/2008/2008 R2 features
- BIND 8.2.3 or higher

For DHCP setup, when the machine updates the A record

- Microsoft DNS servers with standard Windows 2000 Server/Windows Server 2003/2003 R2/2008/2008 R2 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 R2/2008/2008 R2 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 R2/2008/2008 R2 features
- BIND 9.2.3 or higher

DHCPv4 servers targeted for operation

As a substitute for the machine, 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 (or a higher version) features

Setting the dynamic DNS function

Make settings with telnet using the "dns" command.

 **Note**

- For details, see p.73 "Remote Maintenance Using telnet".

Configuring IEEE 802.1X

IEEE 802.1X can be configured using Web Image Monitor's administrator mode. You can select four types of EAP authentication method: EAP-TLS, LEAP, EAP-TTLS and PEAP. Note that each EAP authentication method has different configuration settings and authentication procedures.

Types and requirements of certificates are as follows:

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)

If a certificate is required, configure all settings after installing the certificate.

Installing a Site Certificate

6

Access the authentication server and obtain the CA certificate.

Methods of obtaining certificates differ according to the operating system you are using.

1. Log in to Web Image Monitor in the administrator mode.
2. In the menu area, click [Configuration].
3. Under "Security", click [Site Certificate].
4. Click [Browse] on the "Site Certificate to Import" window, and then select the CA certificate you obtained.
5. Click [Import].
6. 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.

7. Click [OK].
8. Click [Logout].
9. Quit the Web Image Monitor.

↓ Note

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".

Installing Device Certificate

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

2. In the menu area, click [Configuration].
3. Under "Security", click [Device Certificate].
4. Click [Certificate2] on the "Device Certificate" window, and then click [Request].
5. Enter appropriate "Common Name" and "Country Code" on "Certificate Information" page, and then click [OK].
6. "Updating..." appears. Wait for about one or two minutes, and then click [OK].
7. 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 Details" 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 [Certificate2] on "Device Certificate" window, and then click [Install].
11. Using a text editor, open the CA signified certificate downloaded in step 9, and then copy over all the text.
12. In the "Enter Certificate Request" 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 "Installed" appears in "Certificate Status" in [Certificate2].
16. In "Certification", set "IEEE 802.1X" to "Certificate2", and then click [OK].
17. Click [Logout].
18. "Updating..." appears. Wait for about one or two minutes, and then click [OK].
19. Quit Web Image Monitor.

Note

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".
- If you request two certificates simultaneously, the certificate authority might not display either certificate. Click [Cancel Request] to cancel the request.
- You can select [Certificate 1-4] in the "Device Certificate" window. Note that if you select [Certificate 1] in the "Device Certificate" window, you must select "Certificate 1" in the "IEEE 802.1X" drop down menu in the "Certification" window.
- If "Not found" appears after clicking [OK] in steps 6 and 14, wait one or two minutes, and then click [Refresh].

Setting Items of IEEE 802.1X for Ethernet

1. Log in to Web Image Monitor in the administrator mode.
2. In the menu area, click [Configuration].
3. Under "Security", click [IEEE 802.1X].
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".
 - Select [On] or [Off] in "Permit Sub-domain".

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".
 - Select [On] or [Off] in "Permit Sub-domain".

PEAP

- Click [Change] in "Password", and then enter the password set in the RADIUS server.
If [TLS] is selected for "Phase 2 Method", you do not need to specify a password.
- 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".
 - Select [On] or [Off] in "Permit Sub-domain".

7. Click [OK].

8. "Updating..." appears. Wait for about one or two minutes, and then click [OK].

9. In the menu area, click [Configuration].

10. Under "Interface", click [Interface Settings].

11. Select [Active] in "Ethernet Security".

12. Click [OK].

13. "Updating..." appears. Wait for about one or two minutes, and then click [OK].

14. Click [Logout].

15. Quit the Web Image Monitor.

 **Note**

- For details about Web Image Monitor, see p.55 "Using Web Image Monitor".
- If there is a problem with settings, you might not be able to communicate with the machine. To identify the problem, print the configuration page. For details about printing the configuration page, see p.27 "Print List".
- If you cannot identify the problem, reset the machine interface to normal, and then repeat the procedure from the beginning.

Specifications

Component	Specifications
Interface	100BASE-TX, 10BASE-T
Management Function	<ul style="list-style-type: none">• TCP/IP (IPv4/IPv6) RSH, RCP, FTP, FTP-C, SNMP, SNMP-C, HTTP, HTTPS, TELNET, NBT, DHCP, DNS, DNS-C, LDAP

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The m17n library 1.2.0 release

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Note

- To obtain the source code for opening TrouSerS (Version 0.27), which is provided with this machine, access the Web site at the following URL: <http://www.ricoh.com/support/trousers/index.html>
- TrouSerS version control is by SourceForge CVS. For methods of obtaining the source code, access the Web site at the following URL: http://sourceforge.net/cvs/?group_id=126012

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