

Embedded Web Server RX User Guide

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User interface screen captures shown in this guide may differ depending on your printing system.

Examples of the operations given in this guide support the Windows 7 printing environment. Essentially the same operations are used for Microsoft Windows Vista, Windows XP, Windows Server 2003, and Windows Server 2008 environments.

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1 Introduction

Embedded Web Server RX (Remote eXtension), which will hereafter be referred to as the *embedded server*, refers to the web server that is built into the printing device. It allows you to verify the operating status of the device and make settings related to security, network printing, E-mail transmission and advanced networking.

With the embedded server, the administrator can remotely track paper and toner usages per user and the status of optional equipment installed. The embedded server also configures device settings, monitors jobs, and manages document boxes and address books.

System Requirements

The embedded server operates in the following environment. Check the following before use.

Protocols

- The TCP/IP protocol is installed on the PC.
- An IP address is assigned to the printing system.

Web Browser

- Microsoft Internet Explorer 7.0 or later (Microsoft Internet Explorer operates on Microsoft Windows XP/ Vista/7, and Microsoft Windows Server 2003/2008.)
- Mozilla Firefox 3.5 or later
- Safari 4.0 or later (Safari operates on Apple Mac OS X 10.4 or later.)

Accessing the Embedded Server

Access the embedded server by entering the printing system's host name or IP address in a web browser. Obtain the IP address from your network administrator.

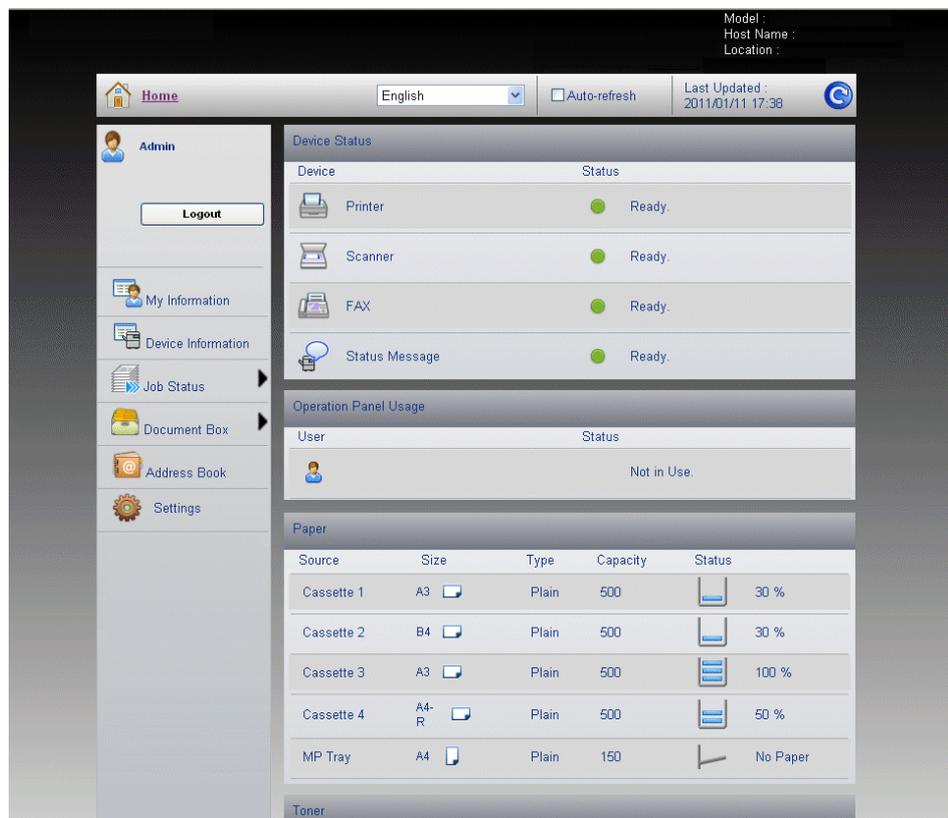
- 1** Open a web browser.
- 2** Enter the device's host name or IP address as the URL. For example, `http://192.168.10.1`.

The embedded server's home page will be accessed and displayed. The home page requests a User name and Password. For initial login, use the predefined Admin as the User Name, and Admin as the Password. This is set up internally.

For successive logins use any login name or password set up later in the embedded server. Refer to [Advanced > Management > Authentication > General](#) on page 6-45.

2 The Embedded Server Home Page

The embedded server's home page allows you to select a category from the navigation menu on the left to view and set values for that category, as well as displaying information on the device, user, and consumables on the right, which changes according to the selection in the navigation menu.



Login

To fully access the features of the embedded server pages, enter the User Name and Password and click Login. Entering the predefined administrator password allows the user to access all pages, including Document Box, Address Book, and Settings on the navigation menu.

To access the embedded server pages, the users can be identified by choosing one of network authentication, local authentication, and job accounting authentication methods. For details, see [Levels of Login](#) on page 3-1.

Top Bar

At the top of the home page, you can perform the following:

Home

To quickly return to this home page (top page) from any other server page, click **Home**.

Select language

The embedded server supports multiple languages. To change the language that the embedded server is displayed in, open the language drop down list and select the appropriate language. If you attempt to view the embedded server with a character set other than the language that is used on the operation panel's display, some characters may be garbled.

Auto-refresh

To continuously update the embedded server's pages to the most recent status, select the **Auto-Refresh** check box.

Refresh

Click this circular arrow icon to refresh the embedded server pages any time.

Navigation Menu

The navigation menu at the left of the home page divides the following functions onto separate bars. By clicking each bar, you can jump to the desired page as outlined below:

My Information

My Information is accessible only when you have logged in the embedded server with a general user or administrator privilege, and user authentication is enabled. This page summarizes the general settings to which access is granted by the general user. This depends on the scope of the user's or group's privileges. For example, if a user is allowed access to the document box, he/she can add or delete documents in the document box shown in **My Information**.

Device Information

This page includes this machine's various information that apply to the entire machine, such as Device Defaults, Basic Networking as well as model, optional equipment installed, firmware, network parameters, FAX parameters, and information on the supported browsers.

Job Status

This page includes information on all device jobs including job status for printing, scanning, storing, and scheduled as well as job log. After clicking on **Job Status**, information is available in the following job status pages:

Printing Job Status, Sending Job Status, Storing Job Status

Displays details on each job. You can narrow details you need by pulling down **Type**. Click **Refresh** above to update details. Click **Cancel Job** to abort the job. To see details on each job on the log, click **Number** or **Name** of the job.

Scheduled Jobs (when FAX is installed)

This page is populated with FAX jobs currently scheduled for transmission. Click **Refresh** to update the list. Click **Cancel Job** to remove the FAX job from the list to abort.

Printing Job Log, Sending Job Log, Storing Job Log

Displays logs to track jobs of each type. You can narrow details by pulling down **Type**. Click **Refresh** at the right end of the Top Bar to update the list of logs. To see details on each job on the log, click **Number** or **Name** of the job.

Document Box

This page allows you to add, edit, or delete a document box, and delete documents in a document box. Under **Document Box**, **Custom Box**, **Fax Box**, **Sub Address Box**, and **Polling Box** are included. For more information, see page 4-1.

Address Book

This page allows you to add, edit, or delete of a contact address or a group of addresses. For more information, see page 5-1.

Settings

This page includes advanced settings that apply to the entire device, including primarily advanced network settings and security settings. For more information, see page 6-1.

Status Displays

The home page displays information on the status of the device, operation panel usage, and consumables, to the right of the page. This page allows you to quickly verify the device's current settings and statuses.

Device Status

Shows the operating status of the printer, scanner, and FAX.

Operation Panel Usage

Shows the user currently logged in the device from the operation panel and its operating status. Note that settings made using the operation panel may override those made using the embedded server.

Paper

Shows the size, type, maximum capacity, and the current supply by paper source.

Toner

Shows the toner supply by color. The status of the waste toner box is also given.

Optional Equipment Status

Shows the status of the optional devices, such as the amount of the remaining staples and the punch waste.

3 About Login

This section provides information to help the administrator manage domain and local users. The administrator can set authentication that allows the predefined users to access the embedded server pages and set administrator passwords.

Levels of Login

An administrator can configure the device to require a user login before it is accessed in either of three different ways of authentication as described in this section.

If you select local or network authentication, User Login must be turned on.

The default user name and password, or the local administrator account when User Login is turned off, is *Admin*. Note that the embedded web server does not provide administrative limitation against the access to itself.

Local Authentication

Users are registered in this device and one-to-one authentication is performed between this printing system and a PC. A local account user accesses the embedded server by entering **User Name** and **Password** and selecting **Local** in the drop-down list (if shown) below the entries, followed by clicking the **Login** button.

A user logged in with an administrator privilege can gain access to **My Information**, **Device Information**, **Job Status**, **Document Box**, **Address Book**, and **Settings** on the navigation menu.

A user logged in with a general user account cannot add or delete document boxes, nor view the **Address Book** and **Settings pages**.

To add, delete or configure a locally authenticated user, refer to [Basic > Security > User Login](#) on page 6-10.

Network Authentication

In the case where the device is configured for network authentication, the device and the relevant PC's need to be under the management of a Windows domain network. Enter the **User Name** and **Password** and select the domain you want to login in the drop-down list.

Once you have logged in with an administrator privilege, you can access to **My Information**, **Device Information**, **Job Status**, **Document Box**, **Address Book**, and **Settings** on the navigation menu.

A user logged in with a general user account cannot add or delete document boxes, nor view the **Address Book** and **Settings pages**.

To add, delete or configure a network authenticated user, refer to [Advanced > Management > Authentication > General](#) on page 6-45.

Authentication Using Job Account ID

In the case where the device is configured for job accounting but not for User Login, a user can be authenticated by his/her job account ID. Enter the job account ID in **Account Login** and click **Login**.

If a user is registered as an administrator on the User Login user list (Refer to [Basic > Security > User Login](#) on page 6-10), he/she can select either **Account Login** or **Administrator Login**.

For access using a job account ID, **My Information**, **Device Information**, **Job Status**, **Document Box**, and **Address Book** are displayed in the navigation menu.

4 Document Box

This page is accessible when you have logged in using a general user or administrator account. It allows you to add or delete a document box, as well as deleting documents in a document box. A general user is not allowed to add or delete a document box.

There are several types of document boxes, which vary depending on models: **Custom Box**, **FAX Box**, **Sub Address Box**, and **Polling Box** as described below. Note that **FAX Box**, **Sub Address Box**, and **Polling Box** are available only if the device is equipped with a FAX kit.

The users with a general user account can delete the documents which were created and added in their own document boxes.

Custom Box

The section below explains how to add, edit or delete custom boxes as well as working with their contents.

Adding a New Custom Box

- 1 Click **Custom Box** under **Document Box** on the navigation menu.
- 2 Click **Add**. The **New Box - Property** page will open.
- 3 Make entries required to define the custom box, such as **Number**, **Name**, etc.
- 4 Click **Submit**.

Editing a Custom Box

- 1 Click **Custom Box** under **Document Box** on the navigation menu.
- 2 Select the custom box you want to edit by clicking on its Number or Box Name. The documents contained in the custom box are displayed with its name, date of creation, size, etc. You can choose **List View** or **Thumbnail** to view the box contents.

Alternatively, you can open the list of the user boxes, directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying glass icon, to quickly search the custom box.
- 3 Click **Box Property**. The **Property** page opens.
- 4 Make entries required to modify the custom box properties such as Number, Name, etc.

- 5 Click **Submit**.

Working with a Custom Box

You can delete, move, copy, join, download, E-mail or print documents in the custom box.

First select the document to apply any of the above actions by following the steps below:

- 1 Click **Document Box**, then **Custom Box** which will open below on the navigation menu.
- 2 Select the custom box you want to work with by clicking on its Number or Box Name. If the box is password-protected, enter the password to proceed. The documents contained in the custom box are displayed with its name, date of creation, size, etc. You can choose **List View** or **Thumbnail** to view the box contents.

Alternatively, you can open the list of the user boxes, directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying glass icon, to quickly search the custom box.
- 3 In the custom box, select the check box next to the name of the document that you want to apply the action. You can select multiple documents simultaneously.

Deleting a Document

- 1 Select the document to delete as described above.
- 2 Click **Delete**.

Moving a Document from Box to Box

- 1 Select the document to move as described above.
- 2 Click **Move**. The **Move Settings** page opens. The files selected are shown in **Selected Files**.
- 3 Select the box to move the document to in **Destination**. If the box is password-protected, enter the password.
- 4 Click **Move**. The document is moved to the box.

Copying a Document to Box

- 1 Select the document to copy as described above.
- 2 Click **Copy**. The **Copy Settings** page opens. The files selected are shown in **Selected Files**.

3 Select the box to store the copied document in **Destination**. If the box is password-protected, enter the password.

4 Click **Copy**. The document is copied into the box.

Joining Documents in One

1 Select the documents to join as described above.

2 Click **Join**. The **Join Settings** page opens. The files selected are shown in **Selected Files**.

3 If desired, change the order of the documents to be joined by clicking **Top**, **Up**, **Down**, and **Bottom**. You can exclude a document from the **Selected Files** list by clicking **Delete**.

4 Name the new document which the documents selected are joined in **File Name**.

5 Click **Join**. The documents are joined in the new document.

Downloading a Document to PC

1 Select a document you want to download and store into your PC as described above. You can download only one document at a time.

2 Click **Download**. The **Download Settings** page opens. The selected file is shown in **Selected Files**.

3 Use the **Color Selection** drop-down list if you want to change the color of the document after downloading. For example, you can download a color document as a monochrome document when it is stored in PC.

4 Use the **File Format** drop-down list to choose the type of the document you want to download.

5 Click **Download** to begin downloading. Enter the name and destination of the document as you are prompted.

Note: If downloading is interrupted by the web browser's pop-up blocking, perform the following:

- For example, on Internet Explorer 8, go to **Tools > Pop-up Blocker > Turn Off Pop-up Blocker** to turn off pop-up blocking. Or, go to **Pop-up Blocker Settings** and enter the print system's IP address in **Allowed sites**.
- If pop-up blocking is still engaged, on Internet Explorer 8, go to **Tools > Internet Options > Security > Custom level > Downloads > Automatic prompting for file downloads** and select **Enable**.
- If downloading won't complete, try to turn off SmartScreen Filter by browsing to **Safety > SmartScreen Filter > Turn Off SmartScreen Filter** on Internet Explorer 8.

Sending a Document to a Destination

- 1** Select a document you want to send as described above. You can send only one document at a time.
- 2** Click **Send**. The **Send Settings** page opens. The selected file is shown in **Selected Files**.
- 3** In **Destination**, select a destination from **Address Book**, **E-mail**, **Folder**, **FAX** and **i-FAX**.
To select a destination, select **Address Book** to display the destinations currently registered (depending on **E-mail**, **Folders**, **FAX**, **i-FAX**, or **Groups**). Note, however, **FAX** is not displayed if the entry of new addresses is prohibited in the device's system menu.
To delete a destination from **Destinations**, click **Delete**.
- 4** Use the **Color Selection** drop-down list if you want to change the color of the document to send. For example, you can send a color document as a monochrome document.
- 5** Name the document in **File Name**.
- 6** Enter the date of sending and job ID in **Additional Information**. These entries are appended in the file name.
- 7** Use the **File Format** drop-down list to select the type of the document you want to send.
- 8** Click **Send**. If you are prompted to confirm sending, in case **Confirmation Screen** is activated on the device's operation panel, make confirmation. The document is sent to the destination.

Printing a Document

- 1** Select the document(s) to print as described above.
- 2** Click **Print**. The **Print Settings** page opens. The files selected are shown in **Selected Files**.
- 3** If desired, change the order of the documents to be printed by clicking **Top**, **Up**, **Down**, and **Bottom**. You can exclude a document from the **Selected Files** list by clicking **Delete**.
- 4** Enter the number of copies to print in **Copies**.
- 5** Use the **Color Selection** drop-down list if you want to change the color of the document when it is printed.
- 6** In **Functions**, change settings for **Duplex**, **EcoPrint**, **Toner Save Level** as desired.

- 7 Click **Print**. The document is printed.

Deleting a Custom Box

- 1 Click **Custom Box** under **Document Box** on the navigation menu. The **Custom Boxes** page opens. Click **All Boxes** to show all custom boxes present in the device, and click **My Boxes** to show only the custom boxes of your own.
- 2 Click **Delete** once. This will not delete any custom box yet, but this will let the checkboxes (**Select**) appear to the left.
- 3 Select the custom box you want to delete by selecting the checkbox to the left. You can select only one custom box to delete at a time.

You can enter the box name in the **Box Name** window and click the magnifying glass icon to quickly search the custom box.
- 4 Click **Delete**.

FAX Box

The section below explains how to add, edit or delete FAX boxes as well as working with their contents.

Adding a New FAX Box

- 1 Click **Document Box > FAX Box** in the navigation menu.
- 2 Click **Add** and enter descriptions for the FAX Box.
- 3 Click **Submit**.

Editing a FAX Box

- 1 Click **FAX Box** under **Document Box** on the navigation menu.
- 2 Select the FAX Box you want to edit by clicking on its **Number** or **Box Name**. The documents contained in the FAX Box are displayed with its name, date of creation, size, etc. You can choose **List View** or **Thumbnail** to view the box contents.

Alternatively, you can directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying icon, to quickly search the FAX Box.
- 3 Click **Box Property**. The **Property** page will appear.
- 4 Make entries required to modify the FAX Box properties such as Number, Name, etc.
- 5 Click **Submit**.

Working with a FAX Box

- 1 Click **FAX Box** under **Custom Box** in the navigation menu.
- 2 Select the FAX Box you want to work with by clicking on its **Number** or **Box Name**. If the box is password-protected, enter the password to proceed. The documents contained in the FAX Box are displayed with its name, date of creation, size, etc. You can choose **List View** or **Thumbnail** to view the box contents.

Alternatively, you can directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying glass icon, to quickly search the FAX Box.
- 3 In the FAX Box, select the check box next to the name of the document that you want to apply the action. You can select more than one document simultaneously.
- 4 Select either of **Delete**, **Download**, and **Print** to apply to the document. To perform any of these actions, follow the same procedure as described in [Working with a Custom Box](#) on page 4-2.

Deleting a FAX Box

- 1 Click **FAX Box** under **Document Box** in the navigation menu. The FAX Boxes page opens. Click **All Boxes** to show all custom boxes present in the device, and click **My Boxes** to show only the custom boxes created under your account.
- 2 Click **Delete** once. This will not delete any FAX Box yet but this will let check boxes (**Select**) appear to the left.
- 3 Select the FAX Box you want to delete by selecting the check box to the left. You can check only one custom box to delete at a time. You can enter the box name in the **Box Name** window and click the magnifying glass icon to quickly search the custom box.
- 4 Click **Delete**. If required, enter the password and click **OK**.

Sub Address Box

The section below explains how to add, edit or delete sub address boxes as well as working with their contents.

Adding a New Sub Address Box

- 1 Click **Document Box > Sub Address Box** in the navigation menu.
- 2 Click **Add** and enter descriptions for the sub address box.
- 3 Click **Submit**.

Editing a Sub Address Box

- 1 Click **Sub Address Box** under **Document Box** on the navigation menu.
- 2 Select the Sub Address Box you want to edit by clicking on its **Number** or **Box Name**. The documents contained in the Sub Address Box are displayed with its name, date of creation, etc.

Alternatively, you can directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying icon, to quickly search the Sub Address Box.
- 3 Click **Box Property**. The **Property** page will appear.
- 4 Make entries required to modify the Sub Address Box properties such as Number, Name, etc.
- 5 Click **Submit**.

Working with a Sub Address Box

- 1 Click **Sub Address Box** under **Document Box** in the navigation menu.
- 2 Select the Sub Address Box you want to work with by clicking on its **Number** or **Box Name**. If the box is password-protected, enter the password to proceed. The documents contained in the Sub Address Box are displayed with its name, date of creation, etc.

Alternatively, you can directly enter the box number in the **Box #** window and click **Go to**, or enter the box name in the **Box Name** window and click the magnifying glass icon, to quickly search the Sub Address Box.
- 3 In the Sub Address Box, select the check box next to the name of the document that you want to apply the action. You can select more than one document simultaneously.
- 4 Select either **Delete** or **Print** to delete or print the documents, respectively. To perform either of these actions, follow the same procedure as described in [Working with a Custom Box](#) on page 4-2.

Deleting a Sub Address Box

- 1 Click **Sub Address Box** under **Document Box** in the navigation menu. The Sub Address Boxes page opens. Click **All Boxes** to show all document boxes present in the device, and click **My Boxes** to show only the document boxes created under your account.
- 2 Click **Delete** once. This will not delete any Sub Address Box yet but this will let check boxes (**Select**) appear to the left.
- 3 Select the Sub Address Box you want to delete by selecting the check box to the left. You can check only one document box to delete at a time. You can enter the box name in the **Box Name** window and click the magnifying glass icon to quickly search the document box.

- 4 Click **Delete**. If required, enter the password and click **OK**.

Polling Box

This page allows you to print or delete documents in polling boxes. Also, you can determine whether documents are automatically deleted or retained after polling.

Polling Box Property

Polling Box Property determines after the document has been sent, whether you want the document to be automatically deleted or to be retained (overwritten).

- 1 Click **Document Box**, then **Polling Box** which opens below on the navigation menu. The **Polling Box** page opens.
- 2 Click **Box Property**. The **Polling Box - Property** opens to select whether the document which was sent is deleted, or overwritten and retained.
- 3 To configure the box so that documents are overwritten at updating, set **Overwrite Setting** to **On**. To configure the box so that documents are automatically deleted after transmission, set **Delete after Transmit** to **On**.
- 4 Click **Submit**.

Deleting Documents in Polling Box

To delete documents in a polling box, proceed as follows:

- 1 Click **Document Box**, then **Polling Box** which opens below on the navigation menu. The **Polling Box** page opens. You can choose **List View** or **Thumbnail** to view the box contents. To view details on a document in the polling box, click its **Name**. The **Property** page opens and you can view the number of pages, resolution, etc. You can also change the file name by clicking **Change File Name** or preview by clicking **Preview** on this page.
- 2 Select the document(s) you want to delete by selecting the check box to the left. You can select more than one check box to delete the documents simultaneously.
- 3 Click **Delete**.

Printing Documents in Polling Box

To print documents in a polling box, proceed as follows:

- 1 Click **Document Box**, then **Polling Box** which opens below on the navigation menu. The **Polling Box** page will appear. You can choose **List View** or **Thumbnail** to view the box contents. To view details on a document in the polling box, click its **Name**. The **Property** page will appear and you can view the number of pages, resolution, etc. You can also change the file name by clicking **Change File Name** or preview by clicking **Preview** on this page.

- 2 Select the document(s) you want to print by checking the checkbox to the left. You can select more than one checkbox to print the documents in succession.
- 3 Click **Print**. The **Basic** submenu will open.
- 4 You can immediately start to print the documents in the order shown in **Selected Files** by clicking **Print**. If you want to change the order of printing, highlight a document and press **Top**, **Up**, etc. If you want to omit a document from the list, press **Delete**.
- 5 Press **Print**.

5 Address Book

This page is accessible when you have logged in the embedded server with an administrator privilege, while network authentication or local authentication is enabled.

Contacts

This section explains how to add, edit or delete contacts in the address book.

In the **Addresses** page, contacts and groups are listed together. Contacts are identified by the 'single-person' icon and groups by the 'triple-person' icon. You can filter the display for contacts or groups by choosing **Contact** or **Group** on the **Type** drop-down list.

Adding a New Contact

- 1 Click **Address Book** in the navigation menu. The **Addresses** page appears.
- 2 Click **Add Contact**. The **New Contact - Property** page opens.
- 3 Enter the contact's **Number**, **Name** and **E-mail**.
You can also enter **SMB** and **FTP** access information for the contact. Specify Host Name, Port Number, Path to the shared folder, Login User Name, and Login Password for the contact. When the **Test** button is pressed, this machine tries to connect to the **SMB** or **FTP** server.
If the FAX system is installed or i-FAX is activated in the system, you can include a FAX number and/or i-FAX address.
- 4 Click **Submit** to complete. To cancel, click **Back**.

Editing a Contact

The steps below allow you to modify the number or name, e-mail address, SMB and FTP information, FAX and i-FAX settings of a contact.

- 1 Click **Address Book** in the navigation menu. The **Addresses** page appears.
- 2 Select the contact you want to edit by clicking its **Number** or **Name**. The **Property** page appears.
Alternatively, you can directly enter the address number in the **Address #** window and click **Go to**, or enter the contact name in the **Address Name** window and click the magnifying glass icon, to quickly search the contact.
- 3 Modify **Number**, **Name**, or **E-mail** of the contact. If the system is installed with a FAX system or has i-FAX activated, you can modify these settings.

- 4 Modify the settings for SMB and FTP accesses as desired. When the **Test** button is pressed, this machine tries to connect to the **SMB** or **FTP** server.
- 5 Click **Submit**. To cancel, click **Back**.

Deleting a Contact

- 1 Click **Address Book** in the navigation menu. The **Addresses** page appears.
- 2 Select the contact(s) you want to delete by selecting the checkbox to the left. If you want all contacts displayed on the page deleted, click **Check All**. To deselect all, click **None**.
- 3 Click **Delete**.

Groups

This page allows you to add, edit or delete groups of contacts. In the **Addresses** page, contacts and groups are listed together. Contacts are identified by the 'single-person' icon and groups by the 'triple-person' icon. You can filter the display for contacts or groups by choosing **Contact** or **Group** on the **Type** drop-down list.

Adding a New Group

- 1 Click **Address Book** in the navigation menu. The **Addresses** page appears.
- 2 Click **Add Group**. The **New Group - Property** page opens.
- 3 Enter the group's **Number**, or leave it to the system to automatically assign a number, and the group's **Name**.
- 4 Add contacts to the group by clicking the plus sign (+). The **Addresses** page appears.
- 5 Select the contact to join in the group by selecting the **Select** checkbox to the left. You can select more than one checkbox at a time. Note that the contacts to join must already have been existent on the **Addresses** page.
- 6 Click **Submit**. You are returned to the **Property** page. To delete a contact, click the **X** sign.
- 7 Click **Submit** again. Repeat the above steps to add more groups.

Editing a Group

- 1 Click **Address Book** in the navigation menu. The **Addresses** page appears.
- 2 Select the group you want to edit by clicking its **Number** or **Name**. The **Property** page of the group opens.

Alternatively, you can directly enter the group's Number in **Address #** window and click **Go to**, or the group's **Name** in the **Address Name** window and click the magnifying glass icon to search by name.

- 3** Modify the group's **Number** and **Name** as desired.
- 4** To add new contacts to the group, click the plus sign (+). The **Addresses** page appears.
- 5** Select the contact to join in the group by selecting the **Select** checkbox to the left. You can select more than one checkbox at a time.
You can filter contacts by selecting E-mail, Folder, FAX, or i-FAX on the **Type** drop-down list.
- 6** Click **Submit** to add the contacts. You are returned to the **Property** page.
To delete a contact, click the **X** sign.

Deleting a Group

- 1** Click **Address Book** on the navigation menu. The **Addresses** page appears.
- 2** Select the group(s) you want to delete by selecting the check box to the left.
If you want all groups displayed on the page deleted, click **Check All**. To deselect all, click **None**.

Note: Deleting a group does not delete the contacts joined in the group.

- 3** Click **Delete**. To cancel, click **Back**.

6 Settings Pages

The **Settings** page divides the following functions onto separate pages. You can jump to the desired pages by clicking the tab located at the top of each page. The following is an outline of each page accessed, described on the page as indicated below.

Start Page

This page allows you to verify the device's current settings and, depending on model, current operating status. For details, see page 6-1.

Basic Page

This page includes settings that apply to the entire device, such as Device Defaults, Security, and Basic Networking. For details, see page 6-4.

Printer Page

This page includes settings that apply to the printing function of the device, such as Default Print Resolution and Copy Count. For details, see page 6-13.

Scanner Page

This page includes settings that apply to the scanning function of the device, such as Default Scan Resolution and Original Placement. For details, see page 6-15.

FAX/i-FAX Page

This page includes settings that apply to the FAX function of the device, such as FAX transmit and receive settings. For details, see page 6-20.

Advanced Page

This page includes advanced settings that apply to the entire device and is comprised primarily of advanced network settings. For details, see page 6-31.

Start Page

The **Start** page lets you view to verify the following information of the device. To gain access to this page, an administrator privilege is required.

- Verifying the device's operating status
- Verifying various settings (device, printing, FAX, scanning, network and E-mail)
- Verifying the number of scanned pages and the number of prints made on the device

Start > Status (Device/Printer Status Page)

The **Device/Printer Status Page** will be the first screen that appears after you clicked on **Settings** on the home page. This page allows you to view status for various functions on the device.

Device Details

This indicates the device's model, serial number, asset number, firmware information, etc.

Device Settings

This shows whether the administrator password is defined, the language the embedded server is displayed in, and the status of Auto Sleep, A4-Letter override, and Auto Error.

Device Options

This provides you with the information on installation of optional hardware equipment, such as a document processor.

Printer Settings

System information on the printing system is displayed, allowing you to verify the resolution, number of copies, gloss mode, EcoPrint mode, etc.

Time

This shows the time of day set in the printing system.

Media Input

This shows the size and media type for the paper loaded in the MP tray and the cassettes.

Document Output

This shows stack mode of each paper output devices. **Face down** delivers printed pages in forward order, whereas, **Face up** delivers printed pages in reverse order.

Memory

This shows the total memory installed in the printing system in megabytes.

Advanced Options

This provides you with the information on advanced features currently installed in the printing system. This includes Security Kit, Fax Kit, Card Reader, etc.

Start > Status Pages

These pages allow you to verify the various settings (device, printing, scanning, network and E-mail) that were made on the operation panel or using the embedded server.

It is divided by the following items.

- Network
- Security
- Device/Printer
- Scanner
- FAX/i-FAX
- Counters

Network > General

This allows you to verify the current settings for LDAP, TCP/ IP, IPP, IPP over SSL, AppleTalk, NetBEUI, IPv4, and IPv6. For more information, refer to [Advanced Page](#) on page 6-31.

Network > IP Filters

This displays the list of IP addresses and subnet masks (IPv4) or prefix length (IPv6) that have access permission as set under **IP Filters (IPv4)** and **IP Filters (IPv6)** on the **Advanced** page. If no IP addresses have been designated, then access permission will be granted to all addresses. For more information, refer to [Advanced > Protocols > TCP/IP > IP Filters](#) on page 6-34.

Network > SNMP

This allows you to verify the settings made under SNMPv1/ v2 and SNMPv3 on the **Advanced** page. For more information on SNMPv1/v2, refer to [Advanced > Management > SNMP > SNMPv1/v2c](#) on page 6-41. For more information on SNMPv3, refer to [Advanced > Management > SNMP > SNMPv3](#) on page 6-43.

Network > POP3/SMTP

This allows you to verify the E-mail-related settings made on **POP3** and **SMTP** pages of the **Advanced** page. For more information on POP3, refer to [Advanced > E-mail > POP3 > General](#) on page 6-40. For more information on SMTP, refer to [Advanced > E-mail > SMTP > General](#) on page 6-38.

Network > Logical Printers

This allows you to verify the settings made on the **Logical Printers** page of the **Advanced** page. For more information, refer to [Advanced > Protocols > TCP/IP > Logical Printers](#) on page 6-35.

Network > NetWare

This allows you to verify the settings made on the **NetWare** page of the **Advanced** page. For more information, refer to [Advanced > Protocols > NetWare](#) on page 6-35.

Security

This allows you to verify the current settings for secure protocols, IEEE802.1x, and IPSec. To change the settings: For secure protocols, refer to [Advanced > Security > Secure Protocols](#) on page 6-48. For IEEE802.1x, refer to [Advanced > Security > IEEE802.1x](#) on page 6-49. For IPSec, refer to [Advanced > Security > IPSec > Rule1 \(to Rule3\)](#) on page 6-50.

Device/Printer

This allows you to verify the settings made on the **Basic** and the **Printer** pages. For more information, refer to [Basic Page](#) on page 6-4 and [Printer Page](#) on page 6-13.

Device/Printer > APL.Filter

This allows you to verify the settings made on the **Basic** and the **Printer** pages. For more information, refer to [Printer Page](#) on page 6-13.

Device/Printer > APL.Filter Parameters

This allows you to verify the settings made on the **Basic** and the **Printer** pages. For more information, refer to [Printer Page](#) on page 6-13.

Scanner

This allows you to verify the settings made on the **Scanner** page. For more information, refer to [Scanner Page](#) on page 6-15.

FAX / i-FAX > General, FAX, i-FAX

This allows you to verify the settings made on the **FAX / i-FAX** page. For more information, refer to [FAX / i-FAX Page](#) on page 6-20.

Counters > Printed Pages

This allows you to verify the accumulated number of printed pages for each paper size and color (Monochrome, Mono Color, and Full Color). A page printed on both sides is counted as two pages.

Counters > Scanned Pages

Provide information of the number of pages copied, faxed, and other (scanned), respectively.

Start > Information

This page provides information about user account.

User Login

This shows the number of registered users. For details, see [Basic > Security > User Login](#) on page 6-10.

Basic Page

This section includes settings that apply to the device, such as Device Defaults, Security, and basic Networking.

Basic > Defaults > Network

This page allows you to make the settings that are required for network printing and sending E-mail. For more information, refer to [Advanced > Protocols > TCP/IP > General](#) on page 6-32.

You must restart network or this machine after you have completed these settings in order to properly register the content of those settings in the machine. Refer to [Basic > Defaults > Reset](#) on page 6-6.

Host Name

Specifies a name for the printing system network component. This name is used as the NetBEUI printer name and as the WSD device name.

LAN Interface

Specifies the communication rate from **Auto**, **10BASE-T-Half**, **10BASE-T-Full**, **100BASE-TX-Half**, **100BASE-TX-Full** and **1000BASE-T**.

IPv4 Settings

- **DHCP/BOOTP**

Specifies whether or not to obtain an IP address using DHCP or BOOTP.

- **IP Address (IPv4)**

Assigns the Internet Protocol address on the printing system network component. Format of the IP address is four-byte (32-bit) numbers separated by dots, for example, 192.168.110.171.

- **Subnet Mask**

Specifies the subnet mask of the hosts or network with which the print system is connecting. If you have manually assigned an IP address that starts with a number between 192 and 223, it is recommended that you set the subnet mask to "255.255.255.0."

- **Default Gateway**

Specifies the IP address of the default gateway.

IPv6 Settings

- **IPv6**

Specifies whether or not to enable the IPv6 protocol. Select **On** to use the IPv6 protocol.

- **IP Address (IPv6)**

Assigns an IPv6 address to the printing system network component. The format of the IPv6 address is a sequence of numbers (128 bit in total) separated by colons, for example, 2001:db8:3c4d:15::1a2c:1a1f.

- **Prefix Length**

Specifies the IPv6 prefix length of the hosts or network with which the print system is connecting.

- **RA (Stateless)**

Select **On** to use RA to configure IPv6 addresses.

- **Default Gateway**

Specifies the IPv6 address of the default gateway.

- **DHCPv6**

Specifies whether or not to obtain IPv6 IP addresses by automatic configuration. When RA is turned **On**, the IP addresses and server information are obtained via DHCPv6 based on the settings of the automatic configuration made under RA (router setting).

Basic > Defaults > Time

If a time server is used to synchronize the time as well, the current time can be adjusted regularly and easily. Enter the host name or IP address of the time server and click the **Synchronize** button.

Time information is required when you receive reports from this machine via E-mail. It is recommended that you set the time when the report mail function is enabled.

Current Local Time

Displays the time that is currently set in the machine.

Current Universal Time (UTC/GMT)

Displays the Greenwich Mean Time that is currently set in the machine.

Time Zone

Sets a time difference. Click the drop down list and select your region.

Summer Time

Switches the Summer Time setting On and Off. Select On in order to have the Summer Time function applied when the time is synchronized with a time server.

Time Server

Enter the host name or IP address of the time server from which you want to acquire the time.

Synchronize with Time Server now

Click the **Synchronize** button to synchronize the registered time with the designated timer server.

Synchronization Status

Displays the results of the synchronization operation with the time server.

Basic > Defaults > Reset

This page allows you to restart the machine in order to make all settings in the machine valid. It is also possible to select to have all settings returned to their factory default values.

Restart entire device

Clicking **Restart** restarts this machine.

Restart Network

Clicking **Restart** allows restarting the network interface without restarting the machine. The network interface must be restarted whenever a change has been made to the network settings.

Reset entire device to factory default

When clicking the **Reset** button, the machine returns to the factory default settings. However, the document box, address book, user information, logs, and certificates are not deleted.

Basic > Defaults > Device Defaults

This page allows you to change the language that is used in the display, to turn Auto Sleep Mode on or off, etc.

Operation Panel Language

You can select the language of the messages on the display by following the procedure given below. The following languages are available for selection in the drop down list: English, Français, Deutsch, Italiano, Nederlands, Español, Português, Russian, and the downloaded languages. You can optionally download messages in other languages. Contact your dealer for information. Some models may require restarting after configuration.

Sleep Timer

Specify the time in the drop-down list, from 1 to 240 minutes, after that the system enters Auto Sleep Mode. On some models, you can choose how the machine wakes up and reverts to normal mode of operation in Quick Recovery or Energy Saver as described below.

Proceed as follows to complete sleep mode settings:

- 1 Click **Advanced** on the right hand side of the Sleep Timer drop-down list.

Note: Advanced settings are not available when a FAX Kit is installed in the machine.

- 2 Turn **Auto Sleep On** or **Off**. If you select **Off**, Sleep Timer is disabled and the machine will not enter sleep mode.

- 3 In **Sleep Level**, select **Quick Recovery** or **Energy Saver**.

Quick Recovery automatically lets the machine recover from sleep mode when the machine receives a print data via any interface (network, USB port, etc.).

With **Energy Saver**, printing does not take place until you make a key operation on the machine operator panel.

Alternatively, on some models, the **Sleeping** page appears on the embedded web server while the system is engaged in Energy Saver. You can click **Start** on the **Sleeping** page.

If you have selected Energy Saver mode of sleeping, click **On** of the appropriate radio button for the interface or device you would like to engage in Energy Saver. Click **Off** if you do not want to engage Energy Saver for the interface or device. For example, if you want print data received by the network interface to automatically wake the machine and be printed, click **Off** next to **Network**.

4 Click **Submit**.

Override A4/Letter

Specifies whether or not the A4 and Letter size paper should be interchangeable. When turned **On**, for example, if the A4 paper is not in the tray, the Letter size paper will be selected for printing. When turned **Off**, the Letter size paper will not be used in place of the A4 paper, when A4 is selected for printing but the A4 tray is empty.

Auto Error Clear

Turns Auto Error Clear, which automatically clear errors when they occur, on or off.

Error Clear Timer

Specifies the time between 5 and 495 seconds after which errors are cleared automatically.

Low Power Timer

Specifies the time from 1 to 240 minutes after which the system enters the low power mode, where it reduces the power consumption.

Interrupt Clear Time

This determines the time of period before the machine reverts to normal mode, after the interrupt copy mode has been engaged. The range is 5 to 459 seconds (in 5-second increments).

WSD Scan Timer

This determines the time of period before the machine reverts to normal mode, after WSD scan mode has been engaged. The range is 10 to 495 seconds (in 5-second increments).

RAM Disk Mode

Specifies whether to use a part of the print system memory as a RAM disk. You can specify the size of the print system memory to use for the RAM disk. If this item is On, electronic sorting is enabled and the printing speed increases. After you have changed the setting, you must restart the printing system.

RAM Disk Size

Specifies the size of the RAM disk. For allowable sizes, refer to the print system operation guide. After you have changed the setting, you must restart the printing system.

File Name

You can change the file name for the scan data or the job name for the jobs on the Job page.

Additional Information

You can add a Job Number or the Date and Time to the File Name designated above. The additional information varies depending on model.

Skip Error Job

Turns Skip Error Job on and off, which automatically terminates processing a job on an error and skips to process the next job. The time of period (interval)

for the system to wait until the job is skipped can be set by **Set Interval** below.

Set Interval

Selects the time of period until Skip Error Job is activated from 5 to 90 seconds.

MP Tray Empty

With the MP tray set as the default paper source, this enables (**On**) or disables (**Off**) the paper empty message when the MP tray becomes empty.

Unusable Time Setting (when FAX is installed)

This restricts use of the machine by time of day. When turned **On**, the machine becomes inoperative during the time of day specified by **Unusable Time**. Except, the received faxes are stored in the machine and printed after the inoperative time period has been expired.

Unusable Time

This determines the time of period during which the machine is restricted for use. This is enabled when **Unusable Time Setting** is **On**.

Unlock Code

Entering this code, comprised of four digits from 0 to 9, temporarily allows the machine to be usable during the time of period of restriction.

Dest(ination) Check Before Send

This enables the front panel message which prompts you to confirm the destination to forward the scan data. The message is displayed when the machine's Start key is pressed to start scanning.

Entry Check for New Dest(ination)

When enabled, this determines whether re-entry of a password for confirmation is required when adding a new destination.

Default Screen (Send/FAX)

You can select either **Destinations** or **Address Book** to be displayed by default on the print system's display while using send or FAX mode.

USB Keyboard Type

This tells the system the type of the keyboard being connected to the USB port. In order for the keyboard to properly operate, specify the correct type.

Low Toner Alert Level

This determines the level of remaining toner to alert that toner is running low. When **On**, **Toner Level** (see below) becomes active to select a threshold. When **Off**, the threshold is fixed to 5% of the remaining toner.

Toner Level

Adjusts the level of remaining toner to alert low toner.

Offset One Page Documents

This turns offset stacking **On** or **Off** when printing documents comprised of only one page.

Main Memory/Option Memory

You can determine how memory usage is optimized in the machine in three ways. Choose from **Printer Priority**, **Normal**, and **Copy Priority** depending on the type of jobs you mostly use with the machine.

For some models, this menu is available only when an optional memory is installed.

Display Jobs Log

This provides the option to change the administrators and users who may see the jobs log. You can select **Hide All** to allow only the administrators who logged in using administrator privilege to see the jobs log. **Show All** allows all administrators and users to see the jobs log.

Location

Normally the location of the device should be specified.

Message Banner Print

Each time a banner page is printed, the machine halts and displays a message that prompts you to continue banner printing. You can activate (On) or deactivate (Off) this message.

Paper Size for Small Original

Selects a paper size when an original of a small paper size, such as a card, which the scanner cannot detect is printed.

Basic > Security > Device Security > General

This page allows you to restrict access from the operation panel or USB host device. In addition, an explanation about each security setting is displayed.

Lock Operation Panel

Restricts access from the operation panel. With some models, this setting is irrelevant if the user has logged in as the Administrator.

When it is set to **Lock** (Block), use of the **System menu** on this machine, registration in and editing of the Address Book and Box, use of the Stop key, and cancellation of jobs are forbidden. When it is set to **Partial Lock**, use of the **System menu** on this machine and registration in and editing of the Address Book and Box are forbidden. When it is set to **Unlock**, use of all keys is permitted.

Filtering/Firewall, SNMPv1/v2, SNMPv3, SSL, IPSec, IEEE802.1x

An explanation about each security setting is displayed. When you click a link in the sentence, the appropriate tab of the **Advanced** page opens.

Basic > Security > Device Security > Interface Block

This page allows you to restrict access from each interface.

Network, USB Device, USB Host, USB Storage, Parallel I/F, Optional I/F (1/2)

Specifies whether or not to restrict access from each of the interfaces above. Access from the interfaces that are set to **Block** is restricted.

Access from the network interface cannot be restricted. Access can be restricted on a per-protocol basis. Refer to the next section.

Basic > Security > Device Security > Network Security

This allows you to enable communication with the printing system on a per-protocol basis.

SNMP v3, NetWare, AppleTalk, NetBEUI, Raw, IPP, IPP over SSL, HTTP, HTTPS, FTP (Transmission), FTP (Reception), SMB, SNMP, SMTP, POP3, LPD, LDAP, WSD Scan, WSD Print, ThinPrint, Enhanced WSD, Enhanced WSD over SSL, DSM Scan

Specifies whether or not to restrict communication via each of the protocols on the left. The communication via the protocols that are set to **Block** is

restricted. The settings made on this page affect the protocol settings on the **Advanced** page.

Basic > Security > User Login

When the authentication function is set on the **Advanced > Management > Authentication** page (**Local Authentication**, depending on model), you must register users and set access levels on this page. The available access levels are User and Administrator.

One administrator account is registered by default.

Local Authorization turns **On** or **Off Job Authorization** settings for a user listed on User List.

Registered shows the number of the current users. By entering a user name in **Search by Name**, you can search for the user.

Adding a New User Login

- 1 Click **User Login**, open the **User Login** page.
- 2 Click **Add** and enter the information of the user.
- 3 Click **Submit**.

Editing a User Login

- 1 Click **User Login**, open the **User Login** page.
- 2 Click the desired **Login User Name** or **User Name** to edit the user and modify their information.
- 3 Click **Submit**.

Deleting a User Login

- 1 Click **User Login**, open the **User Login** page.
- 2 Check the desired user. When the check box on the left side of **Login User Name** is selected, all users displayed on the page will be checked.
- 3 Click **Delete**. The **User Login - Delete** page appears. You can confirm the users to be deleted.
- 4 Click **Delete** when the desired users are selected.

Basic > Security > Certificates

This page allows you to create or update certificates or check details on certificates. After you have changed this setting, you must restart network or this machine. For the restarting procedure, refer to [Basic > Defaults > Reset](#) on page 6-6.

Device Certificate - Self Issued

The self-issued certificate is automatically issued by default. The automatically issued certificate has the country code, common name, and a validity period of about 10 years already configured.

Self Certificate

Displays whether the certificate is active.

Expiration

Displays the validity period of the certificate.

View Certificate

Click **View** to view details on the certificate.

Create Certificate

Click **Create** to create a certificate.

Country code and common name are mandatorily required. On Windows Vista/7, the common name and the access name (host name or IP address) must be identical.

Edit Certificate

Click **Edit** to show Current Universal Time, and update the validity period of the certificate.

Export Certificate

Click **Export** to display the download dialog for the file. Click **Save** to download the exported certificate.

If the printing system supports self-issued certificates only, it cannot carry out encrypted communication via IPP over SSL with Windows Vista/7 because the IPP over SSL function of Windows Vista/7 does not deem self-issued certificates as trusted. To enable printing via IPP over SSL, export the self-issued certificate from the printing system and import it into Windows Vista/7 as a trusted certificate. In this case, the access name must match the common name of the certificate.

Device Certificate - CA Issued

CA Certificate

Displays whether the certificate issued by the Certification Authority (CA) is active or not.

Expiration

Displays the validity period of the certificate.

View Certificate

Click **View** to view the details of the certificate.

Import Certificate

Click **Import** to open the **File Import** window. Click **Browse** to open the file selection dialog box. Select a file and click **Open**. When the certificate is password-protected, enter the password and click **Submit**. The certificate is imported.

Delete Certificate

Click **Delete**. The certificate is displayed. Click **Delete** again to delete the certificate.

When the CA issued certificate is deleted, the settings are made invalid if **Authentication Type** is set to **Certificates** for IPsec. The self-issued certificate is made valid for SSL.

Root Certificate

Root Certificate

Displays whether the certificate is active.

Expiration

Displays the validity period of the certificate.

View Certificate

Click **View** to view details on the certificate.

Import Certificate

Click **Import** to open the **File Import** window. Click **Browse** to open the file selection dialog box. Select a file and click **Open**. Click **Submit** to import the certificate.

Delete Certificate

Click **Delete**. The certificate is displayed. Click **Delete** again to delete the certificate.

When all root certificates are deleted, the settings are made invalid if **Authentication Type** is set to **Certificates** for IPSec. In addition, IEEE802.1x is turned **Off**.

Application Certificate

IEEE802.1x Client Certificate

Displays whether the certificate is active.

Expiration

Displays the validity period of the certificate.

View Certificate

Click **View** to view details on the certificate.

Import Certificate

Click **Import** to open the **File Import** window. Click **Browse** to open the file selection dialog box. Select a file and click **Open**. Enter the password and click **Submit**. The certificate is imported.

Delete Certificate

Click **Delete**. The certificate is displayed. Click **Delete** again to delete the certificate.

DSM Scan Client Certificate

Displays whether the certificate is active.

Expiration

Displays the validity period of the certificate.

View Certificate

Click **View** to view details on the certificate.

Import Certificate

Click **Import** to open the **File Import** window. Click **Browse** to open the file selection dialog box. Select a file and click **Open**. Enter the password and click **Submit**. The certificate is imported.

Delete Certificate

Click **Delete**. The certificate is displayed. Click **Delete** again to delete the certificate.

Printer Page

This section includes settings that apply to the printing function of the machine, such as default print resolution or copy count.

Default printer settings will be overridden by the printer driver settings. Settings that affect the machine entirely, such as locking the operation panel, are found under [Basic Page](#) on page 6-4.

Printer > Summary of Network Printer Access Methods

The following information that has already been set is displayed here.

- IP Address
- Host Name
- Net BEUI Name
- AppleTalk Name

Printer > System

The table below provides a summary of the items displayed on the System page.

Form Feed Timeout

Adjusts the timeout between 5 and 495 seconds, after which a form feed will occur in the absence of data. The default setting is 30 seconds.

Emulation

Selects an emulation mode.

Alternate Emulation

Specifies which emulation mode should be used for processing at the time data other than KPDL is received, when **AUTO** is selected for emulation.

JPEG/TIFF Print

This determines the physical size of JPEG images when printing them from a USB flash device. Choices include **Fit to Paper Size**, **Image Resolution**, and **Fit to Print Resolution**.

XPS Fit to Page

This determines the page size for printing XPS data. Turn **On** to fit print data over the page size; and turn **Off** to print in the original size.

Paper Feed Mode

Determines the behavior of paper feed selection when the paper you requested of size and/or type is not available in the current paper source. **Auto** lets the machine to search for the matching paper including all the paper sources. **Fixed** does not perform searching in the other paper sources.

Duplex Mode

Selects the default duplex mode from **Off**, **Long Edge** and **Short Edge**. Available on machines with the duplex printing.

Copies

Sets the number of copies to print.

Page Orientation

Switches Portrait or Landscape page orientation.

Gloss Mode

Sets Gloss Mode to **On** or **Off**. The default setting is **Off**. Available for some color machines which support Gloss Mode.

Color Mode

Sets Color Mode to **Black & White** (Monochrome) or **Full Color**. Available for some color machines.

KIR Mode

Switches KIR smoothing **On** or **Off**. Available for some machines.

EcoPrint Mode

Switches EcoPrint **On** or **Off** to control toner consumption for saving the printing costs. The default setting is **Off**. Available for some machines.

Toner Save Level

Selects **Toner Save Level** from **1(Low)** [low saving, darker printing] to **5(High)** [high saving, lighter printing] when **EcoPrint Mode** is **On**.

Printer > System > APL.Filter (Japan only)

This page allows you to configure the APL.Filter. The APL.Filter is a function that converts the received print data to the specified code and prints that data.

Filter

Switches the **APL.Filter On** or **Off**.

Filter Name

Selects the **APL.Filter**. You can select the ASCII to KPDLL conversion process.

Printer > System > APL.Filter Parameters (Japan only)

Configure items that can be set differently between APL.Filters. You can specify fonts and the text to be converted.

Font

Specifies the fonts used for printing.

Start of String

Specifies the character string with which the text to be converted begins. Up to 15 single-byte characters can be specified.

End of String

Specifies the character string with which the text to be converted ends. The default setting is lf. Up to 15 single-byte characters can be specified.

Printer > Media Input

This page lets you configure paper trays by type and size. You can also configure cassette groups.

Default

Determines the default tray to feed paper from.

Tray

Displays the trays including those provided by option.

Size

Displays the paper size for each input tray. This setting can be changed using the dropdown list.

Type

Displays the paper type for each input tray. This setting can be changed using the dropdown list.

Group Settings

If multiple cassettes are available, you can set up to three groups of cassettes. Cassettes in a group are treated as a single tray. Paper can be fed continuously from the grouped cassettes.

Printer > Document Output

This page lets you select an output tray.

Paper Output

Determines the default output tray.

Scanner Page

This section includes settings that apply to the scanning function of the machine, such as default scan resolution or original placement.

In order to attach scanned data file to an E-mail and send it, the SMTP settings on the **Advanced** page must be completed.

Scanner > Defaults

The section below provides a summary of the items displayed on the **Scanner > Default** page.

Color Selection (Copy)

This selects color mode for copying. Auto automatically identifies full color or black and white from the original document to copy. You can manually select either **Full Color** or **Black & White** to forcedly switch color mode.

Color Sel.(Send/Store)

This selects color mode for scanning or storing. **Auto Color (Color/Grayscale)** and **Auto Color (Color/Black & White)** allow you identify color for the original document to scan. You can manually select **Full Color**, **Grayscale**, or **Black & White** to forcedly switch color mode.

Scan Resolution

Specifies the resolution. The maximum resolution using full color or gray scale mode is 300 x 300 dpi. To scan in full color or gray scale with 400 dpi or 600 dpi resolution, expansion of the internal memory is required.

Original Image (Copy)

The original quality for copying is selected according to the type of original. Select from **Text+Photo (Printer Output)**, **Text+Photo (Book/Magazine)**, **Photo (Printer Output)**, **Photo (Book/Magazine)**, **Photo (Photo Paper)**, **Text (Light Text/Fine Line)**, **Graphic/Map (Printer Output)**, and **Graphic/Map (Book/Magazine)**.

Original Image (Send/Store)

The original quality for scanning/storing is selected according to the type of original. Switch the original quality from **Text**, **Text+Photo**, and **Photo**.

File Format

Selects the file format in which the scanned data will be saved.

PDF/A

Turns PDF/A-compliant format **PDF/A-1a** or **PDF/A-1b** on or **Off**, when File Format above is PDF. PDF/A is an electronic document file format for long-term preservation as addressed in the ISO 19005-1 specification.

Image Quality (File Format)

Selects the file quality mode (**1** [Low] to **5** [High]) in which the scanned data will be saved.

High-Compression PDF Image

Selects the compression rate for PDF files from **1** (Low), **2** (Medium), and **3** (High).

High-Compression PDF Auto Color

Sets whether to enable or disable the automatic color/ monochrome detection for the original to be scanned.

Zoom

Switches the zoom ratio between **Auto** and **100%**. The default setting is 100%.

Original Orientation

Switches between **Top Edge Top** and **Top Edge Left**.

Scanner > FTP

This section provides a summary of the items displayed on the **FTP** page.

FTP

Switches FTP **On** or **Off**.

FTP Port Number

Sets the FTP Port Number or use the FTP default port 21.

FTP Encrypted TX

This enables or disables Encryption for communication. When turned **On**, the encryption algorithm that is selected by [Advanced > Security > Secure Protocols](#) on page 6-48 is used.

Scanner > SMB

The table below provides a summary of the items displayed on the **SMB** page.

SMB Protocol

Switches the SMB Protocol **On** or **Off**.

SMB Port Number

Set the SMB port number in the field provided, or use the SMB default port 139.

Scanner > E-mail

The **E-mail** page is used for creating an E-mail template. The template includes a subject line, and three fields for entering body information of the E-mail. The **E-mail** page details are summarized in the following:

Subject

The subject line of an E-mail can include the model name of the printer, serial number, MAC address, host name and IP address information. Designated conversion strings are provided for this purpose, starting with %.

The string will be converted into a pre-defined string to display the selected information. The Subject Conversion Strings are detailed as follows:

- %printer = Model
- %serial = Serial Number
- %etheraddr = MAC Address
- %host = Host Name
- %ip = IP Address

Body

You can enter the information that you want to appear in the body of the E-mail in the 3 fields provided.

Scanner > Send and Forward

When sending a FAX, FTP, SMB, i-FAX or a E-mail job, Send and Forward automatically forwards the same job to a destination specified. The following section provides a summary of the items displayed on the **Send and Forward** page.

Forward

Switches Send and Forward **On** or **Off**.

Rule

Selects a rule of either FAX, i-FAX, FTP, SMB or E-mail to activate Send and Forward.

Forward settings

Allows to edit the job to send and forward.

Color Selection

This selects color mode for scanning or storing. **Auto Color (Color/Grayscale)** and **Auto Color (Color/Black & White)** allow you identify color for the original document to scan. You can manually select **Full Color**, **Grayscale**, or **Black & White** to forcedly switch color mode.

Scan Resolution

Specifies the resolution. The maximum resolution using full color or gray scale mode is 300 x 300 dpi. To scan in full color or gray scale with 400 dpi or 600 dpi resolution, expansion of the internal memory is required.

File Format

Selects file type to stored the scanned document.

PDF/A

Turns PDF/A-compliant format PDF/A-1a or PDF/A-1b on or off, when File Format above is PDF. PDF/A is an electronic document file format for long-term preservation as addressed in the ISO 19005-1 specification.

Image Quality (File Format)

Selects the file quality mode (1 [Low] to 5 [High]) in which the scanned data will be saved.

High-compression PDF Quality

Selects the compression rate for PDF files from 1 (Low), 2 (Medium), and 3 (High).

File Separation

Scans a multi page document and saves each page as a separate file.

Subject

Subject is entered here.

FTP Encrypted TX

This enables or disables encryption for communication. When turned On, the encryption algorithm that is selected by **Advanced > Security > Secure Protocols** is used.

Encrypted PDF Settings

Apply encryption to the PDF files to send-and-forward.

Compatibility

You can change the PDF version by choosing a compatibility option when you save as PDF.

Password to Open Document

When you set a Document Open password, anyone who tries to open the PDF must type in the password you specify. Set to On and enter a Document Open password.

Password to Edit/Print Document

You can set a password to restrict recipients to print or edit the document, or copy its contents, such as images. Recipients don't need a password to open the document, but they must type the password to accomplish one of these restricted actions to the document, respectively.

- **Printing Allowed**

Restrict printing of the document.

- **Changes Allowed**

Restrict editing of the document.

- **Copying of Text/Images/Others**

Allow copying objects including images and text for pasting into other document.

To require a password in order to protect the document, click **On** and enter the password.

Add

Adds a destination for forwarding. To add a destination, proceed as follows:

- 1 Click **Add**.
- 2 In **Address Type**, select the type of destination from the following:
 - **Email** - forwards E-mail to the E-mail address entered.
 - **SMB** - forwards SMB scan jobs to a shared folder on Microsoft Windows network. Enter the Host Name, Port Number, path to a shared folder, Login User Name, and the Login Password.
 - **FTP** - forwards FTP scan jobs to an accessible FTP server. Enter the Host Name, Port Number, path to a folder, Login User Name, and the Login Password.

Adding an Address from an Address Book

To add an address from an Address Book, if set up, proceed as follows:

- 1 Click **Import Contacts**.

- 2 The address book opens. Check the check box for the address you want to add to the destination.
- 3 After you have finished selection, click **Submit**.
- 4 The **Send and Forward** page appears. Check that the destination is added to the destination list.

Delete

To delete a destination from **Destination Settings**, click the check box next to the destination, then click **Delete**. If you accept the confirming prompt, click **Delete**.

Scanner > i-FAX

This sends scanned data in i-FAX mode. The subject and body contents for i-FAX must be specified. The contents displayed on this page are the same as in **Scanner > E-mail**, described above.

Scanner > DSM Scan

DSM (Distributed Scan Management) is a Microsoft definition of scanner management systems over the Windows networks. The administrator can use the Windows Server 2008 R2 scan management to obtain ScanProcess for each user and add them to ActiveDirectory. This will allow the user to execute scanning according to the scan process.

DSM Scan

Switches DSM Scan **On** or **Off**. Select Network Authentication for the Authenticate Mode setting to use DSM Scan. Note that the SSL protocol must also be turned **On**.

Client Certificate Type

Selects either the **CA Certificate** or **DSM Scan Client Certificate** for the client certificate type. You must restart network or this machine after you have completed this setting in order to properly register the content of those settings in the machine.

LDAP Server Name

Specifies a name or IP address for the LDAP server. This is required only if ActiveDirectory which contains ScanProcess is unidentical with the server for the network authentication.

LDAP Port Number

Specifies a port number for LDAP or use the LDAP default port, 389.

Search Timeout

Specifies a period of time for searching the LDAP server.

LDAP Security

Selects the type of encryption from the drop-down list, according to the type of security employed by the LDAP server. Select **Off** when encryption is not used.

Authentication Type

Selects either the **Simple** or **SASL** for the authentication type.

CA Certificate

Displays whether the certificate issued by the Certification Authority (CA) is active or not.

Root Certificate 1 (to Root 3)

Displays whether the certificate is active.

DSM Scan Client Certificate

Displays whether the certificate is active.

FAX / i-FAX Page

This section includes settings, such as FAX transmission and reception settings, that apply to the FAX function of the device. For models i-FAX is not activated, i-FAX settings are not displayed on the page and **FAX** is displayed on the menu.

FAX / i-FAX > Common > Defaults

The table below provides a summary of the items displayed on the **FAX / i-FAX > Common** page.

Local FAX Name

Specifies your FAX system name.

Furigana (Japan only)

This adds phonetic scripts to the FAX system name.

Account as Local FAX Name

Set to **On** to use the account name as the local FAX name. The account name appears in place of the local FAX name.

FAX / i-FAX > Common > Receive

The table below provides a summary of the items displayed on the **Receive** page.

FAX Media Type

Sets the media type for printing the received documents.

Use MP Tray

Selects whether or not to include the MP (multi purpose) tray for auto media selection when printing received documents. When turned **On**, the MP tray will be included as an option for auto media selection, and when turned **Off**, only the cassettes will be selected.

Reduced RX Size

Specifies the printing configuration for printing a document, which is larger than the selected paper size. When **Same Size Override** is selected, the document will be printed on multiple sheets of paper without reducing the text. When **Reduction Override** is selected, the document will be printed on one sheet whenever possible.

Receive Date/ Time

Selects **On** or **Off** whether to print the reception information such as the received date, the received time, the transmitting party's information and the number of transmitted pages on the top of the received documents.

Duplex Printing

Specifies whether or not to use the Duplex mode.

2 in1 Receive

Enables or disables 2 in1 reception.

FAX / i-FAX > Common RX/Forward Requirements > General

Conditional reception/forwarding is a function for automatically forwarding documents received by FAX or i-FAX to other FAX machines, sending them as attachments to E-mail, or saving them into a FAX Box instead of printing if they satisfy the specified conditions.

For example, you can forward faxes from particular customers received during business hours to the E-mail addresses of the people responsible for those customers, print and save them in a FAX Box if they are received outside business hours, and forward faxes from outside of your business area to the business office nearest to the sender's fax number.

For models that do not support RX/Forward Requirements, the documents received are forwarded in the same requirement.

Types of RX/Forward Requirements

Open the **FAX/i-FAX > Common > RX/Forward Requirements > General** page. Select one of the following items.

Off

Disables the forwarding process. Received faxes are printed on paper as in normal operation.

Use Requirements List

Executes the forwarding process according to the specified conditions. For the setting procedure, refer to [Setting Destinations](#) on page 6-25.

All

Executes the forwarding process without specifying conditions. All received faxes are processed in the same way. However, the process of saving them in a FAX Box cannot be selected. Clicking **Advanced** specifies a setting equal to that all conditions are specified. For the setting procedure, refer to [Settings for Applying the Same Forwarding Process without Using a Requirement List](#) on page 6-24.

Settings for Forwarding Processes Using a Requirement List

Open the **FAX/i-FAX > Common > RX/Forward Requirements > Requirement List** page.

- 1** Add the new condition to the **Requirement List**. Click **Add**.
- 2** The **Requirement List - Add page** appears. Specify the condition for the FAX forwarding process.

Requirement Number

Enter a number that identifies the condition set.

Name

Give the condition set here an easily recognizable name.

Status

Specify whether to enable or disable the condition. This item is set to **Off** for the condition that has just been added. To set this item to **On**, set the conditions and then click to select the desired condition on the **Requirement List** and change the setting. If the requirement sets include the same **Activating Time Setting**, **Activating Time** and **Sub Address settings**, these requirement sets will not be enabled at the same time.

Activating Time

Specify a period of hours during which the forwarding process is executed. Select **Time Specification** to forward only faxes received during a particular period of hours or **All Day** not to specify the hours.

Enable Time

When **Time Specification** is selected in the previous item, specify the start time and end time.

File Name

Specify the file name to be used for the forwarded file.

Additional Information

Specify the information to be added to the file name specified in the previous item.

Add Sender Information

Determine whether the sender information are added to the file name or not.

Priority

Prioritize the search keys when conducting searching over the sending criteria.

Requirement Type

Select the condition type from the following items: **FAX Sub Address**, **FAX Number**, **FAX Reception Port**, **i-FAX Address**

When an item is selected, the text box below it accepts entry of the necessary information on the selected item. Enter the condition necessary for each item. Asterisks (*) can be used as wildcards. For example, to specify all faxes that came from Tokyo, select **FAX Number** and enter '03*' in the FAX number text box. For some models which shows **Search by** when **FAX Number** or **i-FAX Address** is selected, you can use a search criteria such as **Same as** or **Start with**, etc. Wildcards cannot be used for these models.

When the search criteria is **Same as**, up to 9 are forwarded to the **FAX Box**.

FAX Reception Port shows the list in which you can select Port 1 or Port 2. If a reception port is contained in the condition, FAX reception cannot be saved in a FAX box.

If you selected **FAX Sub Address** for **Requirement Type**, enter a subaddress subsequently.

- 3 After you have finished setting all items, click **Submit**.
- 4 The **Requirement List** page appears. Check that the condition you have set is added to the **Requirement List**. Click the name of the condition under which you want to execute the forwarding process. The **Detail/Edit** page opens. Set **Status** to **On**.
- 5 Then, specify how the forwarding process is executed. Click the desired items among the following three **Action Settings** items in the lower part of the same page. When you want to execute multiple forwarding processes at the same time, for example printing and saving in a FAX Box, click both items and set the processes.

Print

Prints received documents on paper.

- **Name**
Displays the condition name.
- **Status**
Displays whether the condition is currently used.
- **Print**
Specifies whether to print on paper.
- **Copies to print**
When the previous item is set to **On**, specify the number of copies.

Forward

Forwards received documents to other FAX machines, E-mail addresses, shared folders, and so on.

- **Name**
Displays the condition name.
- **Status**
Displays whether the condition is currently used.
- **Forwarding**
Turn **On** to enable forwarding.
- **File Format**
Selects the format of forwarded files from PDF, TIFF, or XPS. (This item has effect when the forwarding destination is E-mail, SMB, or FTP.)
- **FTP Encrypted TX**
Turn **On** to enable encryption for transmission. Note the SSL protocol must also be turned on. Refer to [Advanced > Security > Secure Protocols](#) on page 6-48.
- **Subject Additional Information**
When a forwarding address is specified as destination, **Sender Name** or **Sender FAX No./Address** is appended at forwarding. When None, these will not be appended.
- **Page Separate**
Specifies whether to split the fax into files as many as the number of pages. Select **On** to split the fax. (This item has effect when the forwarding destination is Email, SMB, or FTP.)
- **Number of Destination**
Displays the number of registered destinations displayed for the next item.
- **Destination List**
Displays a list of registered forwarding destinations. Faxes are forwarded to all destinations displayed here. For how to add a destination, refer to [Setting Destinations](#) on page 6-25.

Save to FAX Box

Saves received documents in a FAX Box.

- **Name**
Displays the condition name.
- **Status**

Displays whether the condition is currently used.

- **Save to FAX Box**

Specifies whether to save faxes in a FAX Box. This is not stored in the FAX Box if the forwarding conditions do not meet.

- **Box Name**

Specifies the FAX Box to be used. When the selection button is clicked, a list of registered FAX Boxes appears. The FAX Box to be specified here must be registered in advance. For how to add a FAX Box, refer to [FAX Box](#) on page 4-5.

- 6 After you have finished setting all items, click **Submit**.
- 7 The screen returns to the **Detail/Edit** page. After you have finished setting all items, click **Submit**.
- 8 The **Requirement List** page appears. Check that the status of the condition you have set is **On**. Repeat the above steps to set more conditions.
- 9 Finally, set the process for faxes that do not satisfy any of the conditions on the **Requirement List**. Click **Advanced of Not complying with the requirements**.
- 10 The **Requirement List - Advanced** page appears. Set whether to execute forwarding processes for faxes satisfying no conditions by setting the status to **On** or **Off**. When this item is set to **On**, set the subsequent items. The procedure is almost the same as the procedure for adding a condition. See steps 2 to 6 as a reference.
- 11 After you have finished setting the items, click **Submit**.
This completes the settings for forwarding processes using a **Requirement List**.

Settings for Applying the Same Forwarding Process without Using a Requirement List

Open the **FAX/i-FAX > Common > RX/Forward Requirements > General** page.

- 1 Click **Advanced** in **RX/Forward Requirements**.
 - 2 The **RX/Forward Requirements - Advanced** page appears. Specify the forwarding process. The procedure is almost the same as the procedure for adding a condition. See steps 2 to 6 as a reference.
-
- Note:** The process of saving faxes in a FAX Box cannot be selected as the forwarding process to be applied without using a Requirement List.
-
- 3 After you have finished setting the items, click **Submit**.
 - 4 Returns to the **RX/Forward Requirements** page. Select **ALL** and click **Submit**. This completes the settings for applying the same forwarding process without using a Requirement list.

Setting Destinations

When setting **Forwarding** in **Action Settings** described above, you have to register **Destination** in advance. You can add a new destination or an address registered in the address book to **Destination**.

Addition

Open the **Action Settings > Forward** page.

- 1 Click **Add**.
- 2 Select the desired type of forwarding process from **Address Type**. The available types are as follows:

E-mail

Forwards faxes by E-mail. Specify E-mail address.

SMB

Saves faxes in a shared folder accessible from Microsoft Windows Network. Specify **Host Name**, **Port Number**, **Path** to the shared folder, **Login User Name**, and **Login Password**.

FTP

Saves faxes on an accessible FTP server. Specify **Host Name**, **Port Number**, **Path** to the folder, **Login User Name**, and **Login Password**.

FAX

Forwards faxes to other FAX machines. Specify **FAX Number**, **Transmit Start Speed**, and other necessary information on the forwarding destinations.

i-FAX

Forwards faxes to other i-FAX systems. Specify **i-FAX Address**, **Connection Mode**, and other necessary information on the forwarding destinations.

- 3 After you have finished specifying the destination, click **Submit**.
- 4 The **Action Settings > Forward** page appears. Check that the Destination is added to the **Destination List**.

Addition from the Address Book

There are two types of address book: address book contacts and address book groups. In address book contacts, each entry has an address of one person. In address book groups, each entry has multiple addresses. When an address of a group is added, faxes are forwarded to all addresses registered in the group.

Before adding an address from an address book, you have to register the address in the address book. For how to register an address in an address book, refer to [Contacts](#) on page 5-1 or [Groups](#) on page 5-2.

Open the **Action Settings > Forward** page.

- 1 Click **Import Contacts** or **Import Groups**.
- 2 The address book opens. Put a check mark in the check box for the address or group you want to add to the destinations.

- 3 After you have finished selection, click **Submit**.
- 4 The **Action Settings > Forward** page appears. Check that the **Destination** is added to the **Destination List**.

Deletion

You can delete a **Destination** from the **Destination List**.

Open the **Action Settings > Forward** page.

- 1 Put a check mark in the check box for the destination you want to delete from the **Destination List**.
- 2 After you have finished selection, click **Delete**. The **Action Settings > Forward - Delete** page appears. You can confirm the destinations to be deleted.
- 3 After you have finished selection, click **Submit**.
- 4 The **Action Settings > Forward page** appears. Check that the **Destination** is deleted from the **Destination List**. After confirming the settings, click **Submit**.

FAX / i-FAX > FAX > Defaults

The description below provides a summary of the items displayed on the **FAX / i-FAX > FAX > Defaults** page.

Local FAX Number (Port 1/ 2)

Specifies your FAX system number.

FAX Line

Sets the type of phone line to correspond to the type of telephone service that you are using. Be sure that the type of phone line you select is correct because, if the setting is incorrect, dialing will be impossible. The choices are **Tone (DTMF)** or **Pulse (10pps)**, or **Pulse (20pps)**.

Local FAX ID

Specifies your FAX system ID.

Speaker Volume

Sets the volume of the internal speaker that allows you to listen to the other party or to verify the conditions on the telephone line when the **[On-Hook]** key was pressed. The choices are **Off** and levels **1** through **5**.

Monitor Volume

Sets the volume of the internal speaker that allows you to verify the FAX tones during FAX communication. The choices are **Off** and levels **1** through **5**.

FAX / i-FAX > FAX > Transmit

The table below provides a summary of the items displayed on the Transmit page.

TTI

Selects **On** or **Off** whether to send the TTI (Transmit Terminal Identifier) information to other party.

TTI Position

Selects the position of the TTI to be printed on the transmitted documents.

TX Start Speed

Selects the speed rate at starting transmission from 33600bps, 14400bps, and 9600bps. Once communication is established, the speed rate that is slower than the other is employed.

ECM TX

Turns error correction mode on which corrects errors that may happen during communication. To use error correction, error correction mode must be turned on at both parties.

FAX / i-FAX > FAX > Receive

The table below provides a summary of the items displayed on the **Receive** page.

FAX Receive

Selects the FAX reception mode. The choices are **Auto (Normal, FAX/TEL, TAD or DRD)** or **Manual**. (The selectable option is different depending on the destination.)

DRD Pattern

Selects the DRD pattern. This menu is available only for specific destinations.

Number Display

Displays the caller's phone number if the service has been contracted. (Available only in Japan.)

RX Start Speed

Selects the speed rate at starting reception from 33600 bps, 14400 bps, and 9600 bps. Once communication is established, the speed rate which is slower than the other is employed.

ECM Reception

Turns error correction mode on which corrects error that may happen during communication. To use error correction, error correction mode must be turned on at both parties.

Remote Switching Dial Number

Specifies the remote switching dial number. You can specify it within a range of 00 to 99. Remote switching allows you to initiate FAX reception from a telephone connected to the FAX system.

Encryption Key No.

Sets the encryption key number to be used for encrypted communication.

F-NET

Sets the silent reception. (Available only in Japan.)

Dial-in

Activates the dial-in (direct number) call. (Available only in Japan.)

Dial-in Number

Specifies the telephone number for direct number. (Available only in Japan.)

Reception Port

Sets the receive-only port. (Available in multiport mode).

Number of Rings (Normal)

Specifies the number of rings for Auto FAX reception (**Normal**). You can specify it within a range of 1 to 15.

Number of Rings (TAD)

Specifies the number of rings for Auto FAX reception (**TAD**). You can specify it within a range of 1 to 15.

Number of Rings (FAX/TEL)

Specifies the number of rings for Auto FAX reception (**FAX/TEL**). You can specify it within a range of 0 to 15. This is not displayed on European models.

FAX / i-FAX > FAX > FAX Restrictions > General

The table below provides a summary of the items displayed on the **FAX Restrictions > General** page.

Transmit Restriction

Selects the transmitting restriction between **Off** and **Use Permit List + Address Book**.

Receive Restriction

Selects the receiving restriction between **Off**, **Use Permit List + Address Book**, and **Use Reject List**.

Unknown Number Reception

Displayed when **Use Reject List** is selected in **Receive Restriction**. This determines the behavior when the machine has received a FAX with an unknown FAX number. Select **Permit** to permit reception of unknown numbered faxes and select **Reject** to reject unknown numbered faxes.

FAX / i-FAX > FAX > FAX Restrictions > Permit Number List

The section below provides a summary of the items displayed on the **Permit Number List** page.

Add

Clicking **Add** will display the **Permit Number List - Add** page. Enter in **Permit FAX Number** the FAX number to add, then click **Submit**.

Delete

To delete a FAX number from **Permit Number List**, click the check box next to the FAX number, then click **Delete**. If you accept the confirming prompt, click **Delete**.

FAX / i-FAX > FAX > FAX Restrictions > Permit ID List

The table below provides a summary of the items displayed on the **Permit ID List** page.

Add

Clicking **Add** will display the **Permit ID List - Add** page. Enter in **Permit FAX ID** the FAX ID to add, then click **Submit**.

Delete

To delete a FAX ID from **Permit Number List**, click the check box next to the FAX ID, then click **Delete**. If you accept the confirming prompt, click **Delete**.

[FAX / i-FAX > FAX > FAX Restrictions > Reject Number List](#)

The section below provides a summary of the items displayed on the **Reject Number List** page.

Add

Clicking **Add** will display the **Reject Number List - Add** page. Enter in **Reject FAX Number** the FAX number to reject, then click **Submit**.

Delete

To delete a FAX number from **Reject Number List**, click the check box next to the FAX ID, then click **Delete**. If you accept the confirming prompt, click **Delete**.

[FAX / i-FAX > FAX > Encryption Key](#)

Specifies the encryption key in hexadecimal. The length of the encryption key is 16 digits. Enter 16 characters using the numbers 0-9 and the letters A-F.

[FAX / i-FAX > i-FAX > Defaults](#)

The section below provides a summary of the item displayed on the **Defaults** page.

i-FAX

Enables or disables i-FAX. Set to **On** to enable.

[FAX / i-FAX > i-FAX > SMTP](#)

The section below provides a summary of the items displayed on the **SMTP** page.

SMTP Port Number

Set the SMTP Port Number or use the SMTP default port 25.

SMTP Server Name

Enter the SMTP server name or its IP address. If entering the name, rather than the IP address, a DNS server address must also be configured. The DNS server address may be entered on the **TCP/IP General** page (Refer to [Advanced > Protocols > TCP/IP > General](#) on page 6-32).

SMTP Server Timeout

Sets the timeout in seconds during which this machine tries to connect to the SMTP server.

Authentication Protocol

Enables or disables the SMTP authentication protocol or sets **POP before SMTP** as the protocol.

Authenticate as

Selects the user to be authenticated in SMTP authentication. If you want to select a user other than i-FAX users, select **Other** and enter the **Login User Name** and **Login Password** for authentication.

Login User Name

When **Other** is selected for **Authenticate as**, the account name set here will be used for SMTP authentication.

Login Password

Enter the login password.

POP before SMTP Timeout

Enter the timeout in seconds during which this machine tries to connect to the SMTP server when set **POP before SMTP** as the **Authentication Protocol**.

Test

Tests to confirm that the settings on this page are correct. When the **Test** button is pressed, this machine tries to connect to the SMTP server.

E-mail Size Limit

Enter the maximum size of E-mail that can be sent in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.

Sender Address

Displays the sender address used for E-mails sent from this machine. For how to change the sender address, set the Email address in **E-mail Address** on [FAX / i-FAX > i-FAX > POP3](#) on page 6-30.

Signature

Displays the signature to be inserted in the end of the E-mail body. For how to change the signature, refer to [Advanced > E-mail > SMTP > General](#) on page 6-38.

FAX / i-FAX > i-FAX > POP3

The section below provides a summary of the items displayed on the POP3 page.

Check Interval

Displays the interval, in minutes, for connecting to the POP3 server to check for incoming e-mails at specific interval. Specify the interval in the range from 3 minutes to 60 minutes. The default is 15 minutes.

Run once now

Click the **Receive** button to immediately receive E-mail from the POP3 server.

E-mail Address

Enter the E-mail address for i-FAX. The E-mail address is displayed in **Sender Address** on [FAX / i-FAX > i-FAX > SMTP](#) on page 6-29.

POP3 Server Name

Enter the POP3 server name or IP address.

POP3 Port Number

Enter the POP3 port number or use the default port number 110.

POP3 Server Timeout

Enter the timeout in seconds during which this machine tries to connect to the POP3 server.

Login User Name

Enter the login name of the user.

Login Password

Enter the password for connecting to the user name above.

Use APOP

Enables (**On**) or disables (**Off**) APOP.

Test

Tests to confirm that the settings on this page are correct. When the **Test** button is pressed, this machine tries to connect to the POP3 server.

E-mail Size Limit

Enter maximum E-mail size in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.

Cover Page

Specifies whether to print the body of E-mail in addition to the attached files.

When this item is set to **On**, the attached files and the body of E-mail are printed.

When no attached files exist, only the body of E-mail is printed. When this item is set to **Off**, only the attached files are printed. When no attached files exist, nothing is printed.

[FAX / i-FAX > i-FAX > Domain Restrictions > General](#)

The section below provides a summary of the items displayed on the **Domain Restrictions** page.

SMTP Restriction

Selects the restriction level from **Off**, **Reject**, and **Permit**.

POP3 Restriction

Selects the restriction level from **Off**, **Reject**, and **Permit**.

[FAX / i-FAX > i-FAX > Domain Restrictions > SMTP Restriction List](#)

The section below provides a summary of the items displayed on the **SMTP Restriction List** page.

Domain Name

Enter the domain names that can be permitted or rejected. You can also specify the E-mail addresses.

[FAX / i-FAX > i-FAX > Domain Restrictions > POP3 Restriction List](#)

The section below provides a summary of the items displayed on the **POP3 Restriction List** page.

Domain Name

Enter the domain names that can be permitted or rejected. You can also specify the E-mail addresses.

Advanced Page

This section includes advanced settings that apply to the machine and is comprised primarily of advanced network settings.

Always restart network or this machine after you have completed these settings in order to properly register the content of those settings in the machine. Refer to [Basic > Defaults > Reset](#) on page 6-6.

Advanced > Network Protocol Quick Summary/Secure Protocol Quick Summary

A quick summary of the protocols that appear in the Advanced page are as follows:

- TCP/IP
- NetWare
- IPP
- AppleTalk
- NetBEUI
- SMTP
- POP3
- SNMP v1/v2c
- SNMP v3
- SSL
- IPSec
- IEEE802.1x

Advanced > Protocols > TCP/IP > General

The section below provides a summary of the items displayed on the **TCP/IP > General** page.

Host Name

Specifies a name for the printing system network component. This name is also used as the NetBEUI printer name and WSD device name.

IPv4 Settings

- **DHCP/BOOTP**

Specifies whether or not to automatically obtain an IP address using DHCP or BOOTP.

- **Auto-IP**

Turn **On** to automatically assign a unique IP address even though a DHCP server does not exist or DHCP setting is Off in the printing system. The range of the IP address to be assigned is from 169.254.0.0 to 169.254.255.255, which is reserved for Auto-IP. If an IP address is already assigned by a DHCP server, this does not resolve a new IP address.

- **IP Address**

If DHCP = OFF, then a static IPv4 address can be entered in this field as part of the system network settings. If DHCP = ON, then a dynamic IPv4 address is assigned to the device, and the field is grayed out. The format of the IPv4 address is a sequence of numbers separated by dots. For example: 192.168.110.171

- **Subnet Mask**

Specifies the subnet mask.

- **Default Gateway**

Specifies the IP address of the default gateway.

- **Domain Name**

Specifies the DNS (Domain Name System) name of the domain to which the printing system belongs. It should not contain the host printer name, for example, "abcde.com".

- **DNS Server (Primary, Secondary)**

Specifies the IP addresses of the primary and secondary DNS (Domain Name System) servers. When DHCP/BOOTP is turned **On**, you can select to use the DNS server obtained via DHCP, or you can enter static DNS server information in the Primary and Secondary fields provided.

- **WINS Server (Primary, Secondary)**

Specifies the IP addresses of the primary and secondary WINS (Windows Internet Name Service) servers. When DHCP/BOOTP is turned **On**, you can select to use the WINS server obtained via DHCP, or you can enter static WINS server information in the Primary and Secondary fields provided.

- **Bonjour**

This section enables/disables Bonjour Protocol.

You can add a Bonjour-enabled printer in Mac OS X using the Printer Setup Utility. The procedure varies slightly between Mac OS X versions. Bonjour print is also available in Windows OS using "Bonjour Print Services for Windows". With this tool installed on the Windows PC, a Bonjour-enabled printer can be installed using the "Bonjour Printer Wizard."

To allow printing from the Mac OS X system, the printer needs to support KPDLL.

- **Bonjour Name**

If Bonjour is turned **On**, this specifies the Bonjour name to be used.

IPv6 Settings

- **IPv6**

Specifies whether or not to enable the IPv6 protocol. Select **On** to use the IPv6 protocol.

- **IP Address**

A static IPv6 address can be entered in this field for the device as part of the system network settings. The format of the IPv6 address is a sequence of numbers separated by colons, e.g. 2001:db8:3c4d:15::1a2c:1a1f.

- **Prefix Length**

Specifies the IPv6 prefix length. It can be a decimal value between 0 and 128.

- **RA (Stateless)**

Select **On** to use RA instead of the DHCP server to configure IPv6 addresses. This function will require the presence of an RA Stateless router in the network that the device is connected to.

- **Default Gateway**

Specifies the IPv6 address of the default gateway.

- **DHCPv6 (Stateful)**

Specifies whether or not to obtain IPv6 IP addresses by automatic configuration. When RA is turned **On**, the IP addresses and server information are obtained via DHCPv6 based on the settings of the automatic configuration made under RA (router setting). This function requires the presence of a DHCPv6 router in the network that the device is connected to.

- **Domain Name**

Specifies the domain name of the domain to which the printing system belongs.

- **DNS Servers (Primary, Secondary)**

Specifies the IP addresses of the primary and secondary DNS (Domain Name System) servers. When DHCPv6 (Stateful) is turned **On**, you can select to use the DNS server obtained via DHCP, or you can enter static DNS server information in the Primary and Secondary fields provided.

Advanced > Protocols > TCP/IP > IP Filters

This page allows you to configure IP filters. IP filters restrict access to the printing system based on the IP addresses and protocols.

Specify the IP addresses or network addresses of the hosts to which access is granted.

If nothing is specified on this page, access from all hosts is allowed.

IP Filter (IPv4)

- IP Address (IPv4)

Specifies the IP address or network address to be permitted.

Subnet Mask

Specifies the subnet mask to be permitted. When there are no entries, access is allowed to all.

To allow access to a network, enter the network IPv4 address, and the subnet mask. For example: To allow access from all hosts on network 192, enter "192.0.0.0" for the IP address, and "255.0.0.0" for the subnet mask. Subnet mask can also be left blank.

To allow access to a single IP address, enter the IPv4 address, and "255.255.255.255" for the subnet mask.

- Protocols

Specifies the protocol to be permitted. The following protocols can be selected:

- LPD
- FTP
- IPP
- ThinPrint
- HTTP
- Raw
- SNMP
- IPP over SSL
- HTTPS

IP Filters (IPv6)

- IP Address (IPv6)

Specifies the IP addresses to which access is granted. When there are no entries, access is allowed to all. The number of addresses that can be specified depends on the IPv6 network address along with the prefix length setting. To filter a single IPv6 address: Enter the desired IPv6 address, along with a prefix length of 128.

- Prefix Length

Specifies the IPv6 prefix length. It can be a decimal value between 0 and 128.

- **Protocols**

Specifies the protocols through which access is granted. The following protocols can be selected.

- LPD
- FTP
- IPP
- ThinPrint
- HTTP
- Raw
- SNMP
- IPP over SSL
- HTTPS

Advanced > Protocols > TCP/IP > Logical Printers

This page allows you to configure the Logical Printers. This machine can be used as a virtual printer for converting ASCII print data to PostScript data or for adding and/or replacing a character strings (commands) at the beginning or end of job data. Up to four logical printers can be set.

Each logical printer can be used with either following print protocols: FTP, LPR, IPP, IPPS, SMB (NetBEUI), or RAW. If no port is specified during print, the default port used will be Logical Printer 1 (LP1), port 9100.

TCP/IP Port Number

Specifies the port number for the logical printer as well as the TCP raw port number (9100, etc.). Conversion is applied to data that is input to the specified raw port in accordance with the selected logical printer. This port is invalid if it is given a port number that is the same as that of an already specified port (For example, FTP or LPD).

Bi-directional Printing

Bi-directional Printing can be set to **On** or **Off** when printing to the TCP/IP RAW port. When Bi-directional Printing = **Off**, all send data is discarded. In order to have the data that is received from the printer returned to the client when printing with PostScript, PDL and other such commands, it is necessary to set Bi-directional Printing = **On**.

Start of Job String

Specifies the character string sent to the printer before output, directly to the output port (lp port). This character string is used when it is necessary to transmit a control code before the print data is sent.

End of Job String

Specifies the character string sent to the printer after output, directly to the output port (lp port). This character string is used when it is necessary to transmit a control code after the print data is sent.

Advanced > Protocols > NetWare

This printing system supports both NDS and bindery printing in either print server mode or remote printer mode.

NetWare setup requires installation of the following client software and login with Administrator Privileges. If you are unsure, please contact your network administrator.

With Novell Client, creation of the NetWare print objects with the AdminManager NetWare Setup Wizard requires the NetWare Client from Novell. For NetWare printing, you may use the NetWare Client from either Novell or Microsoft.

For Admin Privileges, network operations (creating queues etc.) require 'admin' or 'supervisor' privileges (or equivalent). Certain portions of AdminManager may be inoperable if you attempt those operations without sufficient privileges.

NetWare Protocol

Enables or disables the Network Protocol.

Bindery Mode

Enables or disables Bindery Mode.

Frame Type

Sets the Frame type. You can choose from Auto, 802.3, Ethernet-II, SNAP or 802.2.

File Server (Primary)

Enter the name of the primary File Server.

NDS Tree

Enter the name of the NDS Tree.

NDS Context

Enter the NDS Context.

Printer Server Mode

Enables or disables Print Server Mode.

Print Server Name

Enter the Print Server Name.

Queue Polling Interval

Enter the Queue Polling Interval in seconds.

Password (optional)

Enter the Password, if required. Login to NetWare will be successful only the password set here matches the Printer Server password set within the NetWare utilities.

Remote Print Mode

Enables or disable Remote Print Mode.

Print Server Name

Enter the name of the printer server that the remote printer belongs to.

Job Timeout

Enter the timeout in seconds.

Advanced > Protocols > IPP

Using IPP (Internet Printing Protocol) or IPP over SSL, you can print to the device over the Internet, or an intranet.

IPP

Enables or disables IPP.

IPP Port Number

Sets the port number to be used by IPP. In normal situations, set this port number to 631, e.g. `http://(IP address):631/printers/lp1`

IPP over SSL

Enables or disables the IPP over SSL protocol. When IPPS is set to **On**, SSL in the Secure Protocol Settings must also be set to **On**. For details on secure protocol, see [Advanced > Security > Secure Protocols](#) on page 6-48.

IPP over SSL Port Number

Sets the port number to be used by IPP over SSL. In normal situations, set this port number to 443, e.g. `https://(IP address):443/printers/lp1`

Advanced > Protocols > ThinPrint

Enabling ThinPrint allows the reception and decompression of compressed print jobs using the ThinPrint technology within a network. For the implementation, the system uses a ThinPrint port. The default port is port 4000.

ThinPrint

Enables or disables the ThinPrint protocol.

ThinPrint Port Number

Set the ThinPrint Port Number or use the default port 4000.

ThinPrint over SSL

Enables or disables the ThinPrint over SSL protocol. When SSL is set to On, SSL in the Secure Protocol Settings page must also be set to On. For details on secure protocol, see [Advanced > Security > Secure Protocols](#) on page 6-48.

Advanced > Protocols > AppleTalk

You can print from Macintosh computers using the AppleTalk protocol. Appletalk protocol is available in OS 10 versions 10.5 and below. Appletalk is no longer supported in Mac OS version 10.6.

The printing system network component supports Mac OS of various versions ([Web Browser](#) on page 1-1) and is compatible with LaserWriter driver version 8.x.

To set up the Ethernet interface to communicate via AppleTalk, enables AppleTalk protocol operation on the printing system.

AppleTalk

Enables or disables AppleTalk protocol.

Printer Name

Specifies the name of the printing system in the AppleTalk network.

Zone Name

Specifies the name of the AppleTalk zone (network). An asterisk (*) means the default zone.

Advanced > Protocols > NetBEUI

Peer-to-peer printing (SMB Print) is available using NetBEUI protocol. With this method, the printing system is located in Windows Network Neighborhood. NetBEUI is an enhanced version of the NetBIOS protocol, which is used for transport of SMB protocol.

NetBEUI Protocol

Enables or disables NetBEUI protocol. If NetBEUI is turned **On**, name resolution via NetBIOS (NMB) can be used.

Printer Name

Printer Name correlates with Host Name in the **TCP/IP General** page (Refer to [Advanced > Protocols > TCP/IP > General](#) on page 6-32). If you want to change the NetBEUI printer name, change the TCP/IP Host Name.

Workgroup

Workgroup represents the workgroup which will appear in **Entire Network** in "Windows Network Neighborhood."

Comment

You can enter comments here. (This can also be left blank.)

Advanced > E-mail > SMTP > General

Device event reports and counter status such as Low Toner and other information can be sent automatically via E-mail to the specified E-mail address. To use the mail function, configure SMTP (Simple Mail Transfer Protocol) to connect this device to an E-mail server.

SMTP

Enables or disables SMTP protocol. To use E-mail, this protocol must be enabled.

SMTP Port Number

Set the SMTP Port Number, or use the SMTP default port 25. Choose the default port number 465 for SMTP connections over SSL.

SMTP Server Name

Enter the SMTP server host name or its IP address. If entering the host name, rather than the IP address, a DNS server address must also be configured. The DNS server address may be entered on the **TCP/IP General** page (refer to [Advanced > Protocols > TCP/IP > General](#) on page 6-32).

SMTP Server Timeout

Sets the timeout in seconds during which this device tries to connect to the SMTP server.

Authentication Protocol

Enables or disables the SMTP authentication protocol or sets **POP before SMTP** as the authentication type.

Authenticate as

Specifies the user to be authenticated in SMTP authentication. When POP3 User 1 to 3 (Refer to [Advanced > E-mail > POP3 > User #](#) on page 6-40) and **i-FAX User** are set, you can select one of them. If you want to select a different user, select **Other** and enter the **login account name** and **login password** for authentication.

Login User Name

When **Other** is selected for **Authenticate as**, the account name set here will be used for SMTP authentication.

Login Password

When **Other** is selected for **Authenticate as**, the password set here will be used for authentication.

SMTP Security

Enables or disables the SMTP Security. When this protocol is enabled, either **SSL/TLS** or **STARTTLS** must be selected. To enable SMTP security, the SMTP port may have to be changed according to the server settings. Typically, 465 for SSL/TLS and 25 or 587 for STARTTLS are well-known SMTP ports.

POP before SMTP Timeout

Enter the timeout in seconds during which this machine tries to connect to the SMTP server when set **POP before SMTP** as the **Authentication Protocol**.

Test

Tests to confirm that the settings on this page are correct. When the **Test** button is pressed, this machine tries to connect to the SMTP server.

E-mail Size Limit

Enter the maximum size of E-mail that can be sent in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.

Sender Address

Enter the E-mail address of the person responsible for the printing system, such as the printer administrator. A reply or non-delivery report will go to a person rather than to the machine. The sender address must be entered correctly for SMTP authentication. Note that no mail message can be sent unless the sender's address is specified.

Signature

Enter the signature. The signature is free form text that will appear at the end of the E-mail body. It is often used for further identification of the machine.

Domain Restriction

Enter the domain names that can be permitted or rejected. You can also specify the E-mail addresses.

Advanced > E-mail > SMTP > E-mail Recipient #

This page allows you to set the address for receiving E-mail and contents of event reports. Up to three recipients can be set.

Recipient # Address

Enter the E-mail address for this recipient. Entering a group address allows to simultaneously send reports to the recipients.

Subject

Specifies the information to be displayed at Subject. When the following variable starting with "%" is entered, it is converted to values for information set on this machine and displayed in the subject line.

- %printer = Model
- %serial = Serial Number
- %etheraddr = MAC Address
- %host = Host Name
- %ip = IP Address

Event Report Items

Select the events you want to be reported. These events are:

- Add Paper
- Low Toner

- Add Toner
- Cover Open
- Paper Jam
- All Other Errors

Event Report Interval

Enter the E-mail interval. An E-mail will be sent at the end of the interval only when at least one of the selected error conditions has occurred during the interval. The interval can be set from 1 minute to 10000 minutes.

Scheduled Report Items

Check one or more items from **Printer Status**, **Network Status**, and **Counter Status**.

Scheduled Report Interval

Select the time or interval for sending the status information.

- **None**: No report is sent.
- **Monthly**: Sends on the specified time of specified month.
- **Weekly**: Sends on the specified time of every week.
- **Daily**: Sends at the specified time of every day.
- **Hourly**: Sends at the specified interval every hour.

If a specified day does not exist in the month, such as the 31st, the last day of the month is used as the specified day.

Run once now

You can test this by clicking the **Send** button to immediately send a report.

Advanced > E-mail > POP3 > General

To use the E-mail function, you need to connect the printing system to an E-mail server using the POP3 protocol.

POP3 Protocol

Enables or disables POP3 protocol.

Check Interval

Checks E-mails in POP3 server at specific interval. Specify the interval in the range from 3 minutes to 60 minutes. The default is 15 minutes.

Run once now

Click the **Receive** button to immediately receive E-mail from the POP3 server.

Domain Restriction

Enter the domain names that can be permitted or rejected. You can also specify the E-mail addresses.

Advanced > E-mail > POP3 > User #

This page allows you to set the POP3 user account and information on the POP3 server. Up to three users can be set.

User Profile #

Enables or disables this user number.

E-mail Address

Enter the E-mail address.

POP3 Server Name

Enter the POP3 server name or IP address. If you use the host name, you must first specify the DNS server information. For details, refer to [Advanced > Protocols > TCP/IP > General](#) on page 6-32.

POP3 Port Number

Set the POP3 Port Number, or use the POP3 default port number 110. Choose the default port number 995 for POP3 connections over SSL.

POP3 Server Timeout

Enter the timeout in seconds during which this machine tries to connect to the POP3 server.

Login User Name

Enter the login name of the user.

Login Password

Enter the password for connecting to the user name above.

Use APOP

Enables or disables APOP. APOP is an encryption mechanism used for encrypting the Login Password during communication with the POP3 server. When APOP = **Off**, the Login Password is sent using plain ASCII text. When APOP = **On**, the Login Password is encrypted, and cannot be read. APOP requires that the POP3 server supports APOP, and has APOP enabled.

POP3 Security

Enables or disables POP3 Security. When this protocol is enabled, either **SSL/TLS** or **STARTTLS** must be selected. To enable POP3 security, the POP3 port may have to be changed according to the server settings. Typically, 465 for SSL/TLS and 25 or 587 for STARTTLS are well-known SMTP ports.

Test

This will test one transmission for each press, attempting to establish communication with the POP3 server.

Delete e-mail after retrieval

Enables or disables the Delete E-mail after retrieval function. When this item is set to **On**, the retrieved E-mail is deleted from the POP3 server. When this item is set to **Off**, the E-mail will not be deleted after retrieved from the POP3 server.

E-mail size limit

Enter maximum E-mail size in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.

Cover Page

Specifies whether to print the body of E-mail in addition to the attached files. When this item is set to **On**, the attached files and the body of E-mail are printed. When no attached files exist, only the body of E-mail is printed. When this item is set to **Off**, only the attached files are printed. When no attached files exist, nothing is printed.

[Advanced > Management > SNMP > SNMPv1/v2c](#)

The SNMP protocol is used for providing and transferring management information within the network environment. Should an error occur such as Add

Paper, the printing system automatically generates a trap, an error message sent to predetermined trap recipients.

The community names are used like passwords.

SNMPv1/v2c

Sets whether to use the SNMPv1/v2c protocol. Set **On** to use it. After you have changed the setting, you must restart the printing system.

Read Community

Enter the community name for SNMP requests to read a value. The default name is 'public'. After you have changed the setting, you must restart the printing system.

Write Community

Enter the community name for SNMP requests to write (change) a value. The default name is 'public'. After you have changed the setting, you must restart the printing system.

sysContact

The MIB-II sysContact object. Usually this is the E-mail address of the network administrator.

sysName

The MIB-II sysName object. Usually this is the host or domain name of the printing system.

sysLocation

The MIB-II sysLocation object. Usually this is the location information of the printing system which is described under **Device Defaults**. To change location, go to **Location** in **Basic > Defaults > Device Defaults**.

HP Web Jetadmin Compatibility

Turns HP Web Jetadmin Compatibility **On** or **Off**. After you have changed the setting, you must restart the printing system.

Authentication Traps

Specifies whether to use authentication traps. If enabled (**On**), an SNMP trap is generated when an attempt to read or write is made using an incorrect community name. The trap is sent to the configured trap address. After you have changed the setting, you must restart the printing system.

Trap Community

The SNMP trap community name to be used when the printing system generates a trap.

Trap IP Address (IPv4)

Enter the IPv4 address that receives traps. Select **On** to enable trap receiving.

Trap IP Address (IPv6)

Enter the IPv6 address that receives traps. Select **On** to enable trap receiving.

Trap IPX Address

Enter the IPX address that receives traps. Select **On** to enable trap receiving.

Selected Errors

Select the events which will cause a trap to be generated from **Add Paper**, **Low Toner**, **Add Toner**, **Cover Open**, **Paper Jam**, and **All Other Errors**.

Advanced > Management > SNMP > SNMPv3

The section below provides a summary of the items displayed on the **SNMPv3** page. After you have changed the setting, you must restart the printing system.

SNMPv3

Sets whether to use the SNMPv3 protocol. Set **On** to use it.

Authentication

Sets whether to authenticate the user in SNMP communication.

Hash

Selects the hash algorithm. This item is displayed when the **Authentication** is **On**.

Privacy

Sets whether to encrypt the communicated data in SNMP communication. This becomes available when **Authentication** is enabled.

Encryption

Selects the encryption algorithm. This item is displayed when **Privacy** is **On**.

User Name

Enter the name of the read-only user.

Password

Enter the password for the read-only user.

User Name

Enter the name of the read/write user.

Password

Enter the password the read/write user.

Advanced > Management > LDAP > General

The printing system can refer to the address book which is on the LDAP server as an external address book and assign a FAX number and E-mail address to the destination.

LDAP

Enables or disables access to the LDAP protocol.

LDAP Server Name

Specifies a name or IP address for the LDAP server.

LDAP Port Number

Specifies a port number for LDAP or use the LDAP default port 389.

Search Timeout

Specifies a period of time for searching the LDAP server.

Login User Name

Specifies the user name.

Login Password

Specifies the password.

Max Search Results

Specifies a maximum number of displayed results which have been searched on the LDAP address book. The actual number of results displayed varies from model to model.

Search Base

Specifies a base object which indicates the starting point in the tree structure of the database for the LDAP directory searching.

LDAP Security

Selects the type of encryption from the drop-down list, according to the type of security employed by the LDAP server. Select **Off** when encryption is not used.

- **STARTTLS**

Uses explicit mode for data communication. Select this if the server supports the startTLS command. This uses the same port (389) as LDAP.

- **SSL/TLS**

Uses implicit mode for data communication. The server provides services using the LDAP over SSL port (636). Encryption is applied to any data communication using this port.

Authentication Type

Selects either the Simple or SASL for the authentication type.

Test

Tests to confirm that the settings on this page are correct. When the Test button is pressed, this machine tries to connect to the LDAP server.

[Advanced > Management > LDAP > Ext Address Book](#)

The printing system can refer to the address book which is on the LDAP server as an external address book and assign a FAX number and E-mail address to the destination.

Display Mode

Selects the default display mode from **Display from the first name** and **Display from the family name**.

Search Criteria

- Display Name

Enter the name of the address to search.

- LDAP Attribute

Enter the LDAP attribute of the address to search.

Return Value

- LDAP Attribute

Enter the LDAP attribute to return.

- Job Type

Select job type from E-mail, FAX, and i-FAX.

Optional Return Value

- Display Name

Enter the name of the optional fields.

- LDAP Attribute

Enter the LDAP attribute of the optional fields.

Advanced > Management > Authentication > General

Setting Authentication allows only the predefined users to access pages. In addition, you can discriminate users by giving either the **General User** or **Administrator** privilege to each user. Before using the authentication function, you have to define those users. For how to define users, refer to [Basic > Security > User Login](#) on page 6-10.

Authenticate Mode

Specifies whether to enable or disable the authentication function. To disable it, select **Off**. To enable it, select either of the following.

- **Local Authentication**

Users are registered in this machine and one-to-one authentication is performed between this machine and a PC.

- **Network Authentication**

This machine and relevant PCs need to be under the management of the Windows domain network. Depending on model, users registered in this machine must be the same as those registered in the domain controller.

Host Name

Enter the host name of the Windows domain controllers when **Network Authentication** is specified as **Authenticate Mode**.

Port Number

Use the numeric keypad to type the port number when **Server Type** below is **Ext(ernal)**.

Server Type

This specifies the authentication method used by the domain controller when **Network Authentication** is enabled. Select **NTLM** when the domain controller is Windows NT, **Kerberos** for Windows 2000 Server or Windows Server 2003, or **Ext(ernal)**.

Domain Name

When **Network Authentication** is enabled, enter up to 10 domain names. You can select one of these domains at login. Select the **Default** radio button to the left of a domain name which you want to make the default domain.

Note: The default domain should be the one which belongs to the host specified in **Host Name**.

Keyboard Login

This determines whether login authentication is allowed via the machine operation panel or not, despite the IC card authentication is activated (using the IC card authentication kit installed).

Advanced > Management > Authentication > Network User Property

This allows to obtain user information at authenticating the user over the network. The LDAP protocol must be enabled in order to obtain user information.

Obtain Network User Property

Turned **On** to obtain user information.

LDAP Server Name

Specifies a host name or IP address for the LDAP server.

LDAP Port Number

Specifies a port number for LDAP or use the LDAP default port 389.

Search Timeout

Specifies a period of time for searching the LDAP server.

LDAP Security

Selects the type of encryption according to the type of security employed by the LDAP server. Select **Off** when encryption is not used.

Authentication Type

Selects either the **Simple** or **SASL** for the authentication type.

Name 1 (2)

Specifies the LDAP attribute to obtain a user name for display, from the LDAP server. The default for **Name 1** is **displayName**.

E-mail Address

Specifies the LDAP attribute to obtain an E-mail address from the LDAP server. The default is **mail**.

Advanced > Management > Authentication > Group Authorization Set.

Once the network authentication has been established, you can add a group to specify the **Group Information** and items for **Job Authorization Settings**. LDAP must be enabled in order to activate group authorization.

Up to 20 group accounts are registerable. By default, a group account (**Other**) has been preset. This is used to process any group account which does not fall within the registered groups.

Group Authorization

Turned **On** if you want to individually authorize or deauthorize the groups.

Number of Registered Groups

The number of the groups currently registered.

Adding a New Group

- 1 Click **Group Authorization Set.**, open the **Group Authorization Set.** page.
- 2 Click **Add** and specify group information and **Off** or **Reject Usage**.
- 3 Click **Submit**.

Editing a Group

- 1 Click **Group Authorization Set.**, open the **Group Authorization Set** page.
- 2 Click the desired **Group ID** or **Group Name** to edit the group and modify their information.

- 3 Click **Submit**.

Deleting a Group

- 1 Click **Group Authorization Set.**, open the **Group Authorization Set.** page.
- 2 Check the desired group. When the check box on the left side of **Group ID** is selected, all groups displayed on the page will be checked.
- 3 Click **Delete**. The **Group Authorization Set.-Delete** page appears. You can confirm the groups to delete.
- 4 Click **Delete** when the desired groups are selected.

Advanced > Management > IC-Card Settings

This feature is available when an optional IC card reader is installed with the printing system. This enables reading an IC card (FeliCa®) to login the printing system.

IC Card Read Type

Selects either **IDM** or **FeliCa®** type for the IC card to use.

System Code, Service Code, Number of User Blocks to Use

These items are used when **FeliCa** is selected in **IC Card Read Type**. Each item must be given a specific parameter for the FeliCa IC card to use.

Advanced > Management > Notification/Maintenance > Maintenance Notification

This feature defines the recipient of maintenance information reports.

Equipment ID

This is the name by which the machine will be identified.

Recipient Address

The E-mail address of the recipient. If there is more than one recipient then the addresses should be separated by a semicolon ";".

Subject

You can include model name, serial number, MAC address and equipment ID in the subject line as follows: Enter one of the following conversion strings starting with %. The string will be converted into a pre-defined string to display the above information.

- %printer = Model
- %serial = Serial Number
- %etheraddr = MAC Address
- %equipid = Equipment ID

E-mail Interval

Sets the time or interval for sending the status information. Events will be reported at the specified interval.

- **None**: No report is sent.
- **Monthly**: Sends on the specified time of specified month.

- **Weekly:** Sends on the specified time of every week.
- **Daily:** Sends at the specified time of every day.
- **Hourly:** Sends at the specified interval every hour.

If a specified day does not exist in the month, such as the 31st, the last day of the month is used as the specified day.

Run once now

You can test this by clicking the **Send** button to immediately send a report.

[Advanced > Management > Maintenance Notification > Sending Log History](#)

This feature defines the Job Log Notification information reports.

Recipient Address

The E-mail address of the recipient. If there is more than one recipient then the addresses should be separated by a semicolon ";".

Job Log Subject

You can include model name, serial number, and MAC address in the subject line as follows: Enter one of the following conversion strings starting with %. The string will be converted into a pre-defined string to display the above information.

- %printer = Model
- %serial = Serial Number
- %etheraddr = MAC Address

SSFC Job Log Subject

Defines the Job Log Notification information reports only when you log in by using a SSFC-format IC card. You can include the same information as above. (This menu available when an optional IC-card reader is installed with the printing system.)

Auto Sending

Determines whether the job log report is sent or not. Set this to **On** to send the report.

Jobs

Set the number of job logs for sending, from 1 to 1500.

Run once now

You can test this by clicking the **Send** button to immediately send a report.

[Advanced > Security > Secure Protocols](#)

You can encrypt communication between a PC and this machine using SSL encryption. For the changes made in the following to take effect, restart network or this machine as described in [Basic > Defaults > Reset](#) on page 6-6.

SSL

Specifies whether or not to use the SSL protocol.

Serverside Settings

- **Effective Encryption**

Selects the encryption algorithm(s) to be used from DES, 3DES, and AES.

- **HTTP Security**

Specifies the security level.

- **Secure Only (HTTPS)**

Encrypts all HTTP protocol communication. Access is possible only with a URL that begins with "https://." Access attempts using an ordinary http:// URL are automatically redirected to the URL where "http://" is replaced with "https://."

- **Not Secure (HTTPS & HTTP)**

Enables access for both encrypted and unencrypted HTTP protocol communication. Access is possible with https:// and http:// URLs. The former URL establishes encrypted communication and the latter establishes normal communication.

IPP Security

Specifies the security level.

- **Secure Only (IPPS)**

Encrypts all IPP protocol communications.

- **Not Secure (IPPS & IPP)**

Enables access for both encrypted and unencrypted IPP protocol communications.

Clientside Settings

- **Effective Encryption**

Selects the encryption algorithm(s) to be used from DES, 3DES, and AES.

- **Certificate Verification**

When set **On**, verify the expiration of the server certificate at communication. If found expired, communication will fail. When set **Off**, the expiration will not be verified.

Note: When the SSL is set to **On** and **HTTP Security** is set to **Secure (HTTPS)**, the document boxes cannot be accessed by the TWAIN driver.

Advanced > Security > IEEE802.1x

The IEEE802.1x security protocol allows the user to login to the secured networks based on the client certificates.

IEEE802.1x

Specifies whether or not to use the IEEE802.1x protocol.

Authentication Type

Selects either EAP-TLS or PEAP (EAP-MS-CHAPv2) for the authentication type.

Login User Name

Enter the name of the user who accesses the printing system. The IEEE802.1x client certificate of this user must be valid.

Login Password

You can set a PEAP-based password. (This setting is valid when PEAP [EAP-MS-CHAPv2] authentication type is selected.)

Common Name

Specifies the common name of the server certificate if the server is required to be authenticated. (This setting is valid when PEAP [EAP-MS-CHAPv2] authentication type is selected.)

Match Rule of Common Name

When the server certificate is verified, the common name specified under **Common Name** is compared with the common name on the server certificate. This item allows you to specify whether the common names are considered to be matched if they exactly or partially match. (This setting is valid when PEAP [EAP-MS-CHAPv2] authentication type is selected.)

Expiration Verification

When this option is enabled, the expiration of the server certificate is verified at communicating. If the server certificate is found expired, communication will fail. When it is disabled, the expiration will not be verified.

Certificate Status

Displays whether the certificate is active or not.

Advanced > Security > IPSec > General

This section allows you to set access restrictions for IPSec protocol-based communication.

IPSec

Specifies whether or not to enable the IPSec protocol. Select **On** to enable the IPSec protocol. Select **Off** to disable it.

Restriction

Specifies the default policy for non-IPSec packets. Select **Allow** to allow communication with all hosts and networks including those not permitted by the rules described under [Advanced > Security > IPSec > Rule1 \(to Rule3\)](#) on page 6-50. Select **Deny** to allow communication only with the hosts and networks permitted by the rules.

Authentication Type

Specifies the authentication type used for IKE phase1. To set a character string as the shared key and use it for communication, select **Pre-shared** and enter the string of the pre-shared key in the text box. To use a CA-issued device certificate or root certificate, select **Certificates**. When **Expiration Verification** is enabled, the expiration of the server certificate is verified at communicating. If the server certificate is found expired, communication will fail. When it is disabled, the expiration will not be verified. When you select **Certificates**, the contents of the CA certificate and root 1 to 3 certificates are displayed if they are enabled. When you click the **CA** or **Root** button, you can view, import or delete CA-issued or root certificates.

Rule1 (to Rule3)

Shows whether the set rule is enabled or disabled. To enable or disable the rule, refer to [Advanced > Security > IPSec > Rule1 \(to Rule3\)](#) on page 6-50.

Advanced > Security > IPSec > Rule1 (to Rule3)

These pages allow you to select or edit rules to use for IPSec protocol-based communication.

Rule

Specifies whether or not to enable the selected IPSec policy rule. Select **On** to enable the rule. Select **Off** to disable it.

Key Exchange (IKE phase1)

When using IKE phase1, a secure connection with the other end is established by generating ISAKMP SAs. Configure the following items so that they meet the requirement of the other end.

- **Mode**

Main Mode protects identifications but requires more messages to be exchanged with the other end. **Aggressive Mode** requires fewer messages to be exchanged with the other end than **Main Mode** but restricts identification protection and narrows the extent of the parameter negotiations. When **Aggressive Mode** is selected and **Preshared** is selected for **Authentication Type**, only host addresses can be specified for IP addresses of the rule.
- **Hash**

Selects the hash algorithm.
- **Encryption**

Selects the encryption algorithm.
- **Diffie-Hellman Group**

The Diffie-Hellman key-sharing algorithm allows two hosts on an unsecured network to share a private key securely. Select the Diffie-Hellman group to use for key sharing.
- **Lifetime (Time)**

Specifies the lifetime of an ISAKMP SA in seconds.

Data Protection (IKE phase2)

In IKE phase2, IPSec SAs such as AH or ESP are established by using SAs established in IKE phase1. Configure the following items so that they meet the requirement of the other end.

- **Protocol**

Select **ESP** or **AH** for the protocol. **ESP** protects the privacy and integrity of the packet contents. Select the hash algorithm and encryption algorithm below. **AH** protects the integrity of the packet contents using encryption checksum. Select the hash algorithm below.
- **Hash**

Selects the hash algorithm.
- **Encryption**

Selects the encryption algorithm. (When **ESP** is selected under **Protocol**.)
- **PFS**

When **PFS** is set to **On** (enabled), even if a key is decrypted, the decrypted key cannot be used to decrypt the other keys generated after the decryption. This improves the safety, but imposes a heavy burden because of more key-generation processes.
- **Diffie-Hellman Group**

The Diffie-Hellman key-sharing algorithm allows two hosts on an unsecured network to share a private key securely. Select the Diffie-Hellman group to use for key sharing.
- **Lifetime Measurement**

Specifies whether the lifetime is measured by time or by time and data size.
- **Lifetime (Time)/Lifetime (Data Size)**

Specifies the lifetime of an IPsec SA. **Lifetime Measurement** allows you to select whether to use time or data size to specify the lifetime. When you select **Time & Data Size**, an SA is disabled and updated when either the time or data size of the SA exceeds the specified value.

- **IP Version**

Specifies the IP version of the other end. Select **IPv4** or **IPv6**.

- **IP Address (IPv4)**

Specifies the IPv4 addresses of the hosts or network with which the print system is connecting via IPsec. When you are restricting the scope of IPsec, be sure to specify the IP addresses. If this field is blank, all IPv4 addresses will be allowed to connect the print system.

- **IP Address (IPv6)**

Specifies the IPv6 addresses of the hosts or network with which the print system is connecting via IPsec. When you are restricting the scope of IPsec, be sure to specify the IP addresses. If this field is blank, all IPv6 addresses will be allowed to connect the print system.

- **Subnet Mask**

When **IPv4** is selected for **IP Version**, this specifies the subnet mask of the hosts or network with which the print system is connecting via IPsec. If this field is blank, the specified addresses are considered to be host addresses.

- **Prefix Length**

When **IPv6** is selected for **IP Version**, this specifies the prefix length of the hosts or network with which the print system is connecting via IPsec. If this field is blank, the specified addresses are considered to be host addresses.

[Advanced > Link > HyPAS Device Online](#)

This page allows you to configure the environment to execute HyPAS applications.

Application

Displays the number and status of HyPAS applications running in the printing system. Clicking on the application's name or ID in **Application List** shows details for the application.

Certificate

Allows to import, delete, or view **Server Certificate** and **Client Certificate**.

About

Displays the list of web browsers supported by the embedded server.

7 Troubleshooting

Consult the table below to find basic solutions for problems you may encounter with the embedded server.

Troubleshooting

Symptom	Check Items	Corrective Action	Reference
I can't access the embedded server.	Is the power turned on to this machine?	Turn the power on to this machine, wait until it is a ready state, and try to access the embedded server.	Operation Guide
	Is the network cable properly connected?	Connect the network cable properly.	Operation Guide
	Are the network settings that are made in this machine correct?	Perform the network settings from the operation panel. Contact your network administrator for the appropriate settings.	-
	Is the IP address for this machine entered correctly?	Enter the correct IP address. Check this machine IP address with your network administrator.	-
	Are the LAN settings that are made in Web browser correct?	Check the settings made in Web browser. Refer to the Help function in your browser.	-
	Has the administrator set up an IP Filter function?	Access the embedded server from an approved IP address.	Advanced > Protocols > TCP/IP > IP Filters on page 6-34
	Is HTTP Security on the Advanced > Security > Secure Protocol page set to Secure (HTTPS)?	When HTTP Security is set to Secure (HTTPS), specify a URL that begins with https://. You cannot access the embedded server with an http:// URL.	Advanced > Security > Secure Protocols on page 6-48
	Does the version of your browser application support operation using the embedded server?	Use a browser application that supports the embedded server.	Web Browser on page 1-1
Characters do not display properly in the embedded server.	Does the version of your browser application support operation using the embedded server?	Use a browser application that supports the embedded server.	Web Browser on page 1-1

— continued

	Is the same language as that displayed on the operation panel selected?	Select the same language as that displayed on the operation panel.	Top Bar on page 2-1
I can't access the other pages.	Has the administrator set a password?	Enter the password.	Basic > Security > User Login on page 6-10
I can't perform settings.	Is the printer or scanner currently in operation?	Wait until the operation has been completed.	-
The settings I made are not registered.	Did you click the Submit button after making the settings?	Click the Submit button and move to another page or close the embedded server window.	-
	Did you click the Restart button after making the settings?	Restart this machine. All settings will be registered.	Basic > Defaults > Reset on page 6-6
	Are you using the System menu on this machine's panel while the embedded server is being operated?	Operate the embedded server after you have finished with the System menu.	-
The administrator has forgotten the Admin password.	-	Contact your dealer or service center.	-
Error or Warning is displayed under the STATUS indicator.	Is there an error message shown in the display?	Perform the troubleshooting procedure the messages suggests referring to the Operation Guide.	Operation Guide

