Embedded Web Server RX User Guide

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About This Guide

This user guide is intended to help you configure the settings using the embedded web server (Embedded Web Server) correctly and take simple troubleshooting measures as needed so that the machine can always be used in the optimum condition.

The settings and screens described in this guide may be different according to the machine type.

Legal Notes

The information in this guide is subject to change without notice.

Examples of the operations given in this guide support the Windows 10 printing environment.

We cannot be held liable for any problems arising from the use of this product, regardless of the information herein.

Regarding Trademarks

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1 Introduction

Embedded Web Server (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.

Protocol

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

Web browser

- Microsoft Edge (Microsoft Edge operates on Microsoft Windows 10, Microsoft Windows 11 and Windows Server 2016/2019/2022.)
- Mozilla Firefox 14.0 or later
- Safari 5.0 or later (Safari operates on Apple Mac OS X 10.4 or later.)
- Google Chrome 21.0 or later

Accessing the Embedded Server

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

Note: Do not access to other web sites for security reasons while operating the Embedded Web Server.

1. Open a web browser.
2. Enter the device's host name or IP address as the URL. If you use the host name, you must first specify the DNS server information. For example, https://192.168.10.1.

   If the screen “There is a problem with this website's security certificate.” is displayed, configure the certificate. For details, see *Certificates* on page 99. You can also continue the operation without configuring the certificate.

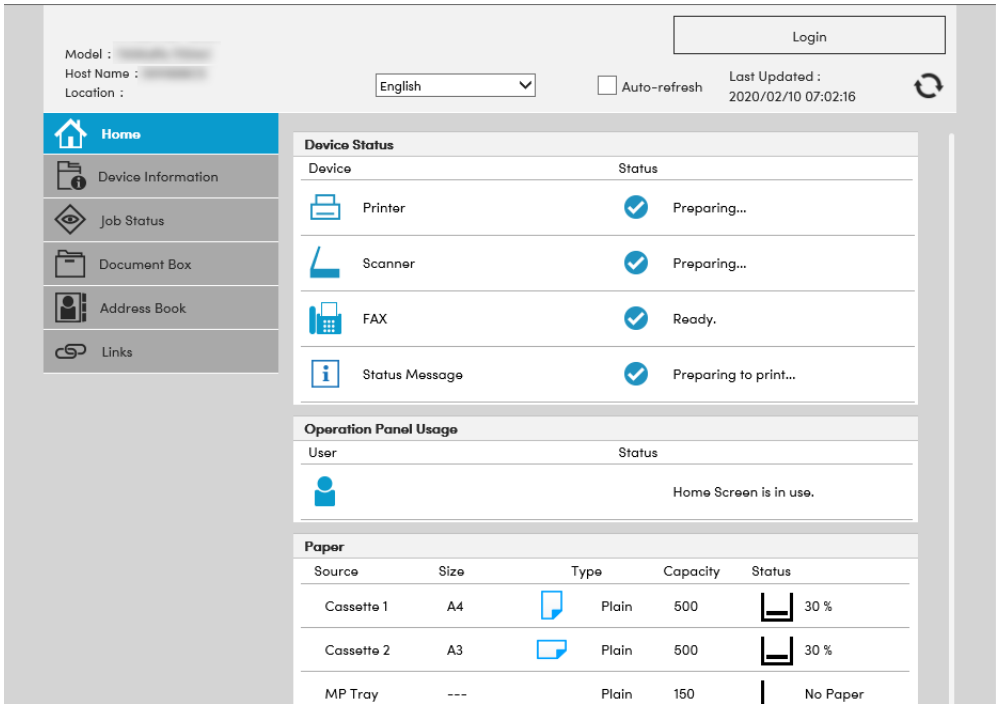
   The embedded server's home page will be accessed and displayed.

   When you select **Login** or **Admin Login** on the upper right corner of the screen, the Admin Login screen appears. Enter the User Name and Password, and then click **Login** button.

For initial login, use the predefined “Admin” as the User Name, and machine's serial number as the Password to access all the pages. The serial number is the factory setting. For the location of the serial number, refer to “Preface” in the Operation Guide.

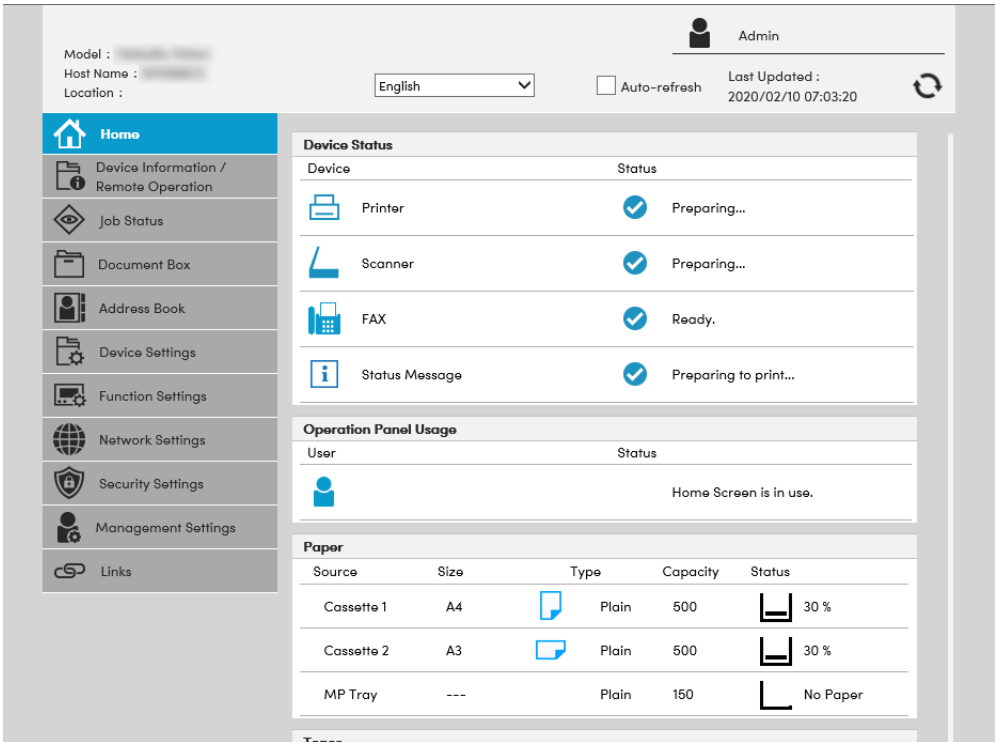
2 The Embedded Server Home Page

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 Device 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 3 About Login Levels of Login on page.

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.

Note: If checking [Auto-refresh] check box, the login state continues without the automatic logout. Do not check [Auto-refresh] for the safe connection.

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:

Device Information/Remote Operation

This page includes this machine's various information. Access this menu when executing Remote Operation. After clicking on **Device Information/Remote Operation**, information is available in the following device information pages:

Configuration
This page includes this machine's various information that apply to the entire machine, such as Device Defaults (basic, ID information, and capability) as well as optional equipment installed, firmware, network parameters, FAX parameters and security parameters.

Counter
This page includes the printed pages and scanned pages. You can narrow details by pulling down **Type**.

About Embedded Web Server
This page includes the firmware version and the list of web browsers supported by the embedded server.

CO2 Emission Chart
Displays CO2 emissions or power consumption in a chart (bar graph). You can also switch the display by month or year.
Note: This chart reflects the settings configured on the **Management Settings: CO2 Emissions** page.

Remote Operation
Click **Start** button to execute Remote Operation.
Note: To execute Remote Operation, **Enhanced VNC (RFV) over TLS** is set to **On** in network protocol and enter the port number as necessary. Also, **Remote Operation** is set to **On** in the **Remote Operation Settings** page and configure the settings as necessary. For details, refer to *Protocol* on page 80 and *Remote Operation* on page 120.

Job Status

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

Printing Job Status, **Sending Job Status**, **Storing Job Status**
Displays details on each job. You can narrow details by pulling down **Type**. Click **Refresh** to update the list. Click **Cancel Job** to abort the job. To see details of each job in the log, click the **Number** or the **Job Name**.

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 of each job in the log, click the **Number** or the **Job Name**.

Document Box

This page allows you to add, edit, or delete a document box, and delete documents in a document box. This page allows you to add, edit, or delete a document box, and delete documents in a document box. Under **Document Box**, **Stamp Box**, **Custom Box**, **Fax Box**, **Polling Box**, **FAX Memory RX Box**, and **Job Box Settings** are included. For more information, see *Document Box* on page 10.

Address Book

This page allows you to add, edit, or delete a contact address or a group of addresses. Under **Address Book**, **Common Address Book**, **External Address Book Settings**, and **One Touch Key** are included. For more information, see *Address Book* on page 18.

Device Settings

This page includes advanced settings that apply to the entire device. Under **Device Settings**, **Paper/Feed/Output**, **Original Document**, **Energy Saver/Timer**, **Date/Time** and **System** are included. For more information, see *Device Settings* on page 24.

Function Settings

This page includes advanced settings of each function that the device has. Under **Function Settings**, **Common/Job Defaults**, **Copy**, **Printer**, **E-mail**, **Scan to Folder**, **FAX/i-FAX**, **Send and Forward**, **RX/Forward Rules**, and **Operation Panel** are included. For more information, see *Function Settings* on page 34.

Network Settings

This page includes advanced network settings that apply to the device. Under **Network Settings**, **General**, **TCP/IP**, and **Protocol** are included. For more information, see *Network Settings* on page 67.

Security Settings

This page includes advanced security settings that apply to the device. Under **Security Settings**, **Device Security**, **Send Security**, **Network Security**, and **Certificates** are included. For more information, see *Security Settings* on page 90.

Management Settings

This page includes advanced management settings that apply to the device. Under **Management Settings**, **Job Accounting**, **Authentication**, **ID Card**, **Notification/Report**, **History Settings**, **SNMP**, **System Stamp**, **Message Board**, **Restart/Reset**, **Remote Operation** and **CO2 Emission** are included. For more information, see *Management Settings* on page 103.

Links

Links to our websites. Visit the following website for more information and downloads.

HyPAS Applications
The link information is displayed when the HyPAS applications are installed and configuring their settings.

Network options
When the optional network interface kit (IB-50 or IB-51) is attached to the machine, the link information to web page of IB-50 or IB-51 is displayed.

Device Status

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.

Status Displays

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

Operation Panel Usage

Shows the user currently logged in to 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 shown.

Staple/Punch

Shows the amount of the remaining staples and the punch waste.

Information

Shows the message type, title and date modified when the Message Board is set to On and the new message is described.

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 factory default local authentication administrator user name is “Admin” and the password is the serial number of the machine.

Local Authentication

Users are registered in this device and one-to-one authentication is performed between this machine and a PC. A local account user accesses the embedded server by entering a **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 administrator privileges can gain access to **My Information**, **Device Information**, **Job Status**, **Document Box**, **Address Book**, **Device Settings**, **Function Settings**, **Network Settings**, **Security Settings**, **Management Settings**, and **Links** on the navigation menu.

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

To add, delete or configure a locally authenticated user, see *Authentication* on page 105.

Network Authentication

If 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. Select the domain you want to login to in the drop-down list, enter a **User Name** and **Password**, and then click the **Login** button.

A user logged in with administrator privileges can gain access to **My Information**, **Device Information**, **Job Status**, **Document Box**, **Address Book**, **Device Settings**, **Function Settings**, **Network Settings**, **Security Settings**, **Management Settings**, and **Links** on the navigation menu.

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

To add, delete or configure a network authenticated user, see *Authentication* on page 105.

Authentication Using Job Account ID

If 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**.

Note: If a user is registered as an Administrator on the **Local User List**, click **Admin Login**. Enter a **User Name** and **Password** and click the **Login** button.

For access using a job account ID, **My Information**, **Device Information**, **Job Status**, **Document Box**, **Address Book**, and **Links** 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**, **Polling Box**, **FAX Memory RX Box**, and **Job Box Settings** as described below. Note that **FAX Box**, **Polling Box**, and **FAX Memory RX 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. The **Document Box : Custom Box** page opens.
2. Click **Add** icon. The **New Box - Property** page will open.
3. Make entries required to define the custom box, such as **Number**, **Name**, etc.
4. Click **Submit** button.

Editing a Custom Box

1. Click **Custom Box** under **Document Box** on the navigation menu. The **Document Box : Custom Box** page opens.
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 will appear.
4. Make entries required to modify the custom box properties such as Number, Name, etc.
5. Click **Submit** button.

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 **Custom Box** under **Document Box** on the navigation menu. The **Document Box : Custom Box** page opens.
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. 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.

   To search the document in the custom box, you can open the custom box, enter the document name in the **File Name** window and click the magnifying glass icon.
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 more than one document simultaneously.

Deleting a Document

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

Moving a Document from Box to Box

1. Select the document to move as described above.
2. Click **Move** icon. The **Move Settings** page opens. The selected file is 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** button. The document is moved to the box.

Copying a Document from Box to Box

1. Select the document to copy as described above.
2. Click **Copy** icon. The **Copy Settings** page opens. The selected file is 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** button. The document is copied into the box.

Joining Documents in One

1. Select the documents to join as described above.
2. Click **Join** icon. The **Join Settings** page opens. The selected file is shown in **Selected Files (Join Order)**.
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 (Join Order)** list by clicking **Delete**.
4. Name the new document which the documents selected are joined in **File Name**.
5. Click **Join** button. The documents are joined in the new document.

Downloading a Document to a 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** icon. The Download Settings page opens. The selected file is shown in **Selected Files**.

   If you want to download the selected page in a file, click **Settings** in **Selected Files**. After selecting the desired pages, click **Submit** button.
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 a PC.
4. Use the **File Format** drop-down list to select the type of the document you want to send.
5. Click **Download** button 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 Microsoft Edge, go to **Settings and more** > **Internet options** > **Privacy** > **Pop-up Blocker**, and disable **Turn on Pop-up Blocker** to turn off pop-up blocking. Or, click **Settings** on **Pop-up Blocker** and enter the machine's IP address in **Allowed sites**.
   - If pop-up blocking is still engaged, on Microsoft Edge, go to **Settings and more** > **Internet Options** > **Security** > **Custom level** > **Use Pop-up Blocker** and select **Disable**.
   - If downloading won't complete, try to turn off SmartScreen Filter by browsing to **Safety** > **Turn Off SmartScreen Filter** on Microsoft Edge.

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** icon. 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**, **i-FAX** and **FAX Server**.

   To select a destination, select **Address Book** to display the destinations currently registered (depending on **E-mail**, **Folders**, **FAX**, **i-FAX**, **FAX Server**, or **Groups**). Note, however, only **Address Book** is displayed if the entry of new addresses is prohibited in the device's system menu.

   To delete a destination from **Destinations**, click **Delete** icon. If you want to print the selected page in a file, click **Settings** in **Selected Files**. After selecting the desired pages, click **Submit** button.
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. When selecting **On** on **E-Mail Encrypted TX** of **S/MIME**, you can send the encrypted e-mail using S/MIME. When selecting **On** on **Digital Signature to E-Mail** of **S/MIME**, you can send the e-mail with digital signature.
9. Click **Send** button. 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** button. The **Print Settings** page opens. The selected file is shown in **Selected Files (Print Order)**.
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 **Select Pages (Print Order)** list by clicking **Delete**.

   If you want to print the selected page in a file, click **Settings** in **Selected Pages to Process**. After selecting the desired pages, click **Submit** button.
4. Enter the number of copies to print in **Copies**. When clicking **Delete after Print**, the document is deleted after printing.
5. Use the **Paper Selection** drop-down list if you want to change the paper source.
6. Use the **Color Selection** drop-down list if you want to change the color of the document when it is printed.
7. In **Functions**, change settings for **Duplex**, **Combine**, **EcoPrint**, and **Toner Save Level** as desired.
8. Click **Print** button. The document is printed.

Deleting a Custom Box

1. Click **Custom Box** under **Document Box** on the navigation menu. The **Document Box : Custom Box** page opens.
2. Click **Delete** icon 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.
4. You can enter the box name in the **Box Name** window and click the magnifying glass icon to quickly search the custom box.
5. Click **Delete** icon.

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 **Fax Box** under **Document Box** on the navigation menu.
2. Click **Add** icon. The **New Box - Property** page opens.
3. Enter the property such as **Number** and **Box Name**.
4. Click **Submit** button.

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** button.

Working with a FAX Box

1. Click **Fax Box** under **Document Box** on 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. 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. To view details on a document in the fax 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.

   To search the document in the fax box, you can open the fax box, enter the document name in the **File Name** window and click the magnifying glass icon.
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 either of these actions, follow the same procedure as described in *Custom box* on page 10.

Deleting a FAX Box

1. Click **Fax Box** under **Document Box** on the navigation menu. The **FAX Boxes** page opens.
2. Click **Delete** icon. This will not delete any fax box yet, but this will let the checkboxes (**Select**) appear to the left.

3. Select the fax box you want to delete by selecting the check box to the left. You can select only one fax 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** icon once. 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 **Polling Box** under **Document Box** 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 **Permit**. To configure the box so that documents are automatically deleted after transmission, set **Delete after Transmit** to **On**.

4. After confirming the settings, click **Submit** button.

Deleting Documents in Polling Box

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

1. Click **Polling Box** under **Document Box** 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** icon once.

Printing Documents in Polling Box

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

1. Click **Polling Box** under **Document Box** 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 print by checking the checkbox to the left. You can select more than one checkbox to print the documents in succession.

3. Click **Print** button. 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, click **Delete** icon.

5. Click **Print** button.

FAX Memory RX Box

This page allows you to print or delete documents in FAX Memory RX Box.

Deleting Documents in FAX Memory RX Box

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

1. Click **FAX Memory RX Box** under **Document Box** on the navigation menu. The **FAX Memory RX Box** page opens. You can choose **List View** or **Thumbnail** to view the box contents. To view details on a document in the FAX Memory RX 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** icon once.

Printing Documents in FAX Memory RX Box

To print documents in a FAX Memory RX Box, proceed as follows:

1. Click **FAX Memory RX Box** under **Document Box** on the navigation menu. The **FAX Memory RX Box** page opens. You can choose **List View** or **Thumbnail** to view the box contents. To view details on a document in the FAX Memory RX 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 print by checking the checkbox to the left. You can select more than one checkbox to print the documents in succession.

3. Click **Print** button. 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, click **Delete** icon.

5. Click **Print** button.

Stamp Box

This section describes the stamp box. Stamp data (PDF) containing confidential document information can be stored in the Stamp Box and detected during copying and scanning.

Note: To create stamp data, paste the confidential document information (image) to a blank document file with the specified document size, and then save it in PDF format.

1. Click **Stamp Box** under **Document Box** on the navigation menu. The **Document Box : Stamp Box** page opens.
2. Click the number of the box you want to register.
3. Click **Add** button.
4. Click **Select File** button and select the data you want to store.
5. Click **Open** button.
6. Click **Upload** button. The data is registered.
7. Click **OK** button.

Note: You can change the name of the registered stamp data. Click the box number to display the stamp data, change the name in **Registered Image Name**, and then click **Submit** button.
You can delete the registered stamp data. Click the box number to display the stamp data, select the **Select** check box of the data you want to delete, and then click **Delete** button.

Job Box Settings

The section below explains how to change the number of Quick Copy jobs and set automatic delete times for temporary jobs in Job Box. Also, you can determine whether documents are automatically deleted or retained after printing.

1. Click **Job Box Settings** under **Document Box** on the navigation menu. The **Document Box : Job Box Settings** page opens.
2. Enter the value in **Quick Copy Job Retention**. You can select Quick Copy jobs from 0 to 300.
3. Enter the value in **Repeat Copy Job Retention**. You can select Quick Copy jobs from 0 to 50.
4. To delete automatically the temporary retained jobs after printing, select **1 hour**, **4 hours**, **1 day**, or **1 week** on the **Deletion of Job Retention** drop-down list. If you do not want to delete the jobs after printing, select **Off** on the **Deletion of Job Retention** drop-down list.
5. To delete the PIN print document when the power is turned off, select **On** in **Delete of PIN print at Power Off**.
6. After confirming the settings, click **Submit** button.

5 Address Book

This page is accessible when you have logged in using a general user or administrator account.

Address Book contains **Common Address Book** and **External Address Book**. You can also specify the address quickly by assigning it to the **One-Touch key**.

Common Address Book

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

Contacts

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

In the **Address Book : Common Address Book** 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 to display only the contacts or groups by choosing **Contact** or **Group** on the **Type** drop-down list.

Adding a New Contact

1. Click **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.
2. Click **Add** icon. 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 including a shared folder accessible from Microsoft Windows Network. 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 you use the host name, you must first specify the DNS server information.

   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** button. To cancel, click **Back** button.

   After selecting **S/MIME** to **On**, when registering the mail address, the **New Contact - Property** screen appears. Among **Encryption Certificate**, **Root Certificate (S/MIME)**, **Intermediate Certificate 1**(to **3**), click **Import** button of required Certificate. The **Import Certificate** screen appears. Click **Open** button to specify the **Certificate**, and click **Submit**, **OK** button sequentially. The setting is registered.

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 **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.
2. Click the contact's **Number** or **Name** you want to edit. The **Property** page appears.

   Alternatively, you can directly enter the address number in the **Address #** window and click **Go to**, or enter the address name in the **Address Name** window and click the magnifying icon, to quickly search the contact.
3. Modify **Number**, **Name**, or **E-mail** of the contact. Click **Settings** button on **S/MIME Certificate**. The **Property** page appears. Click **Import** button to import the necessary encryption certificate file. 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.

   Note: You can also select **Connection Test (Encrypted TX)** when you try to connect to the FTP server.
5. Click **Submit** button. To cancel, click **Back** button.

Deleting a Contact

1. Click **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.

   Select the contact(s) you want to delete by selecting the checkbox to the left.
2. If you want all contacts displayed on the page deleted, click **Check All** icon. To deselect all, click **None** icon.
3. Click **Delete** icon once.

Adding a New Group

1. Click **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.
2. Click **Add Group** button. 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 **Add** icon. The **Addresses** page appears.
5. Select the contact to join the group by checking the **Select** checkbox to the left. You can select more than one document simultaneously. Note that the contacts to join must already have been existent on the **Addresses** page.
6. Click **Submit** button. You are returned to the **Property** page. To delete a contact, select a contact and click the **Delete** icon.
7. Click **Submit** button. Repeat the above steps to add more groups.

Edit Group

1. Click **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.

2. Click the group's **Number** or **Name** you want to edit. The **Property** page of the group opens.

   Alternatively, you can directly enter the group number in the **Address #** window and click **Go to**, or enter the group name in the **Address Name** window and click the magnifying icon, to quickly search the group.

3. Modify the group's **Number** and **Name** as desired.

4. Add contacts to the group by clicking the **Add** icon. The **Addresses** page appears.

5. Select the contact to join the group by checking the **Select** checkbox to the left. You can select more than one document simultaneously.

   You can filter contacts by selecting **E-mail**, **E-mail (Encrypted)**, **Folder**, **FAX**, or **i-FAX** on the **Type** drop-down list.

6. Click **Submit** button to add the contacts. You are returned to the **Property** page.

   To delete a contact, select a contact and click **Delete** icon.

7. Click **Submit** button. You are returned to the **Address** page.

Delete group

1. Click **Common Address Book** under **Address Book** on the navigation menu. The **Address Book : Common Address Book** page opens.

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** icon. To deselect all, click **None** icon.

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

3. Click **Delete** once.

External Address Book Settings

This section explains how to use the external address book.

1. Click **External Address Book Settings** under **Address Book** on the navigation menu. **Address Book : External Address Book Settings** page opens.

2. Confirm that **LDAP** is set to **On**. If the **LDAP** is **Off**, make settings in **Protocol**.

3. Click **On** of the desired external address book(s), and then click **Settings** button. **External Address Book 1 (to 8) Settings** page opens.

   Note: External Address Book 5 (to 8) is used for sending a fax via FAX server.

4. If prompted, configure the following settings for External Address Book.

   External Address Book Name

   Enter the external address book name.

   LDAP Server

   Configure the LDAP server.

   1. **LDAP Server Name**: Specifies a name or IP address for the LDAP server.

2. **LDAP Port Number**: Sets the port number used by LDAP. The default port is 389.
3. **Search Timeout**: Specifies the timeout in seconds after which a search on the LDAP server expires.
4. **Login User Name**: Enter the name of the user to access the LDAP server.
5. **Login Password**: Enter the password of the user to access the LDAP server.
6. **Max Search Results**: Enter the maximum value of the search results using Search Settings.
7. **Search Base**: Enter the basic information of search.
   Entry example of Search Base is as follows.
   To search through the "Users" container in the Active Directory "serv.example.com" domain:
   cn=Users,dc=serv,dc=example,dc=com

   To search through the "Sales div" Organizational Unit (OU) in the Active Directory "serv.example.com" domain:
   ou="Sales div",dc=serv,dc=example,dc=com

   To search through the user's container "Hanako Yamada" which belongs to "Sales2" Organizational Unit (OU) in the Active Directory "serv.example.com" domain:
   cn="Hanako Yamada",ou=Sales2,dc=serv,dc=example,dc=com

   If there are one or more blank spaces in each of value, you have to enclose the value in double quotation marks (").
8. **LDAP Security**: Configure this setting in the **Protocol Settings** page under **Network Settings**.
9. **Authentication Type**: Select an authentication type from the drop-down list.
10. **Connection Test**: This will test one transmission for each press, attempting to establish communication with the LDAP server.

Display Sequence

Select a Display Mode from **Display from the first name** and **Display from the family name** on the drop-down list.

Search Settings 1 (to 2)

You can configure the following settings.

1. **Search Criteria**: Enter **Display Name** and **LDAP Attribute** as a search criteria.
2. **Return Value**: Enter **LDAP Attribute** as a return value and select **Job Type** from the drop-down list.
3. **Optional Return Value**: Enter **Display Name** and **LDAP Attribute** as an optional return value.

5. If prompted, configure the following settings for External Address Book (FAX Server).

External Address Book Name

Enter the external address book name.

LDAP Server Settings

Configure the LDAP server.

1. **LDAP Server Name**: Specifies a name or IP address for the LDAP server.
2. **LDAP Port Number**: Sets the port number used by LDAP. The default port is 389.
3. **Search Timeout**: Specifies the timeout in seconds after which a search on the LDAP server expires.
4. **Login User Name**: Enter the name of the user to access the LDAP server.
5. **Login Password**: Enter the password of the user to access the LDAP server.

6. **Max Search Results**: Enter the maximum value of the search results using Search Settings.
7. **Search Base**: Enter the basic information of search.
   Entry example of Search Base is as follows.
   To search through the "Users" container in the Active Directory "serv.example.com" domain:
   cn=Users,dc=serv,dc=example,dc=com

   To search through the "Sales div" Organizational Unit (OU) in the Active Directory "serv.example.com" domain:
   ou="Sales div",dc=serv,dc=example,dc=com

   To search through the user's container "Hanako Yamada" which belongs to "Sales2" Organizational Unit (OU) in the Active Directory "serv.example.com" domain:
   cn="Hanako Yamada",ou=Sales2,dc=serv,dc=example,dc=com

   If there are one or more blank spaces in each of value, you have to enclose the value in double quotation marks (").
8. **LDAP Security**: Configure this setting in the **Protocol Settings** page under **Network Settings**.
9. **Authentication Type**: Select an authentication type from the drop-down list.
10. **Connection Test**: This will test one transmission for each press, attempting to establish communication with the LDAP server.

Display Sequence Settings

Select a Display Mode from **Display from the first name** and **Display from the family name** on the drop-down list.

Search Settings 1 (to 2)

You can configure the following settings.

1. **Search Criteria**: Enter **Display Name** and **LDAP Attribute** as a search criteria.
2. **Return Value**: Enter **LDAP Attribute** as a return value.
3. **Optional Return Value**: Enter **Display Name** and **LDAP Attribute** as an optional return value.

6. After confirming the settings, click **Submit** button.

One Touch Key

This section explains how to register the address to the One Touch key.

Registering a new One Touch key

1. Click **One Touch Key** under **Address Book** on the navigation menu. **Address Book : One Touch Key** page opens.

2. Click **Settings** of the One Touch Key which you want to register. The **One Touch Key Property** page opens.

3. Enter the **Display Name** and **Destination** in the **One Touch Key Property**. You can call the address registered in the Address Book by clicking **Address Book**. You can select the type of addresses using the **Type** drop-down list in the **Addresses** page.

Click **No.** or **Name** of the address you want to register. The address name and the property information are shown. Select the contact you want to register by checking the radio button to the left. You can check only one contact to assign at a time.

You can enter the address name in the **Address Name** window and click the magnifying glass icon to quickly search the contact.

4. After confirming the settings, click **Submit** button.

Edit one touch key

1. Click **One Touch Key** under **Address Book** on the navigation menu. **Address Book : One Touch Key** page opens.
2. Enter the key number in the **Key #** windows and click **Go to**. The **Property** page appears.
3. Make entries required to modify the Display Name and the Destination. Click **Delete** to delete the destination.
4. After confirming the settings, click **Submit** button.

Delete One Touch Key

1. Click **One Touch Key** under **Address Book** on the navigation menu. **Address Book : One Touch Key** page opens.
2. Click **Delete** of the One Touch Key which you want to delete.

6 Device Settings

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

If prompted, configure the following settings. See the sections below for detailed information.

- Paper/Feed/Output
- Original Document
- Energy Saver/Timer
- Date/Time
- System

Paper/Feed/Output

This section includes settings that apply to paper size and media type for the paper loaded in the MP tray and the cassettes, configuring cassette group, paper output, and the other detailed properties.

Cassette Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Configure the paper size and media type for each cassette.
3. After confirming the settings, click **Submit** button.

MP Tray Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Configure the paper size and media type for MP Tray.
3. After confirming the settings, click **Submit** button.

Inserter Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Configure the paper size and media type for Inserter Tray.
3. After confirming the settings, click **Submit** button.

Group Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Select the cassette(s) corresponding to your desired group arrangement.

3. After confirming the settings, click **Submit** button.

Paper Output Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Configure the default output tray. You can change the output tray for **Copy/Custom Box**, **Printer** and **FAX** respectively.
3. After confirming the settings, click **Submit** button.

Other Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. You can configure the following settings.

Default Paper Source

You can select the cassette or MP Tray feed the paper with priority. When you select a large capacity feeder, **Default Paper Source (Auto)** is displayed. You can select **On** or **Off** to switch the paper source automatically.

Paper Selection

You can select **Auto** or **Default Paper Source** by clicking the drop-down list.

Auto Paper Selection

You can select **Most Suitable Size** or **Same as Original Size** by clicking the drop-down list.

Special Paper Action

You can select **Adjust Print Direction** or **Speed Priority** by clicking the drop-down list.

Media for Auto (Color)

You can select the media type when Auto is selected in Paper Selection for color printing.

Media for Auto (B&W)

You can select the media type when Auto is selected in Paper Selection for black and white printing.

Paper Source for Front Cover

You can select the cassette or MP Tray feed the front cover.

Paper Source for Back Cover

You can select the cassette or MP Tray feed the back cover.

Paper Size for Small Original

You can select Default Paper Size or the paper size by clicking the drop-down list when an original of a small size, such as a card, which the scanner cannot detect is printed.

Original Size of Undetected Original

Specify the action when original size is not detected.
When you select **Use Default Source Size**, the original size is set to paper size of the default paper source. When you select **Display Size Selection Screen**, the paper size selection screen appears on the machine's operation panel. Select the desired paper size.

Offset One Page Documents

You can select whether offset stacking (**On**) or not (**Off**) when printing documents comprised of only one page.

Offset Documents Each Job

You can select whether offset stacking (**On**) or not (**Off**) when printing documents comprised of each job.

Message Paper Set

You can select whether display (**On**) or not (**Off**) the confirmation screen when loading the paper in each paper source.

3. After confirming the settings, click **Submit** button.

Paper Detail Settings

1. Click **Paper/Feed/Output** under **Device Settings** on the navigation menu. The **Device Settings : Paper/Feed/Output Settings** page opens.
2. Click **Settings** in **Paper Detail Settings**. The **Paper Details Settings** page opens.

You can configure the following settings.

Custom Page Size Settings

You can change the size of paper for cassette and MP tray . When you want to change the settings, enter the length (**X**) and width (**Y)** of the Custom Paper.

Media Type Settings

You can select the paper weight for each media type by clicking the drop-down list. When you select the Custom 1 to 4, you can select the paper weight as well as specifying whether or not to use duplex printing and entering the custom paper name.

3. After confirming the settings, click **Submit** button.

Original Document

This section explains how to configure the original.

Auto Detect Original Size

1. Click **Original Document** under **Device Settings** on the navigation menu. The **Device Settings : Original Document** page opens.
2. You can configure the following settings.

System of Units

Select **Metric** or **Inch** as measurement of original document for auto detect. If you select **Inch**, select an original size (Legal, OfficioII or 216 x 340 mm) from the drop-down list.

A6/Hagaki

Select **A6** or **Hagaki** as auto detect original size.

Folio

Select **On** to detect Folio automatically as original size.

11x15”

Select **On** to detect 11 x 15” automatically as original size.

3. After confirming the settings, click **Submit** button.

Custom Original Size

1. Click **Original Document** under **Device Settings** on the navigation menu. The **Device Settings : Original Document** page opens.
2. Select **On** or **Off** for each Custom Original (**1** to **4**). When you want to change the settings, enter the length (**X**) and width (**Y**) of the Custom Paper.

   Note: You can enter the length of Custom Paper without selecting **On** or **Off** according to the machine.
3. After confirming the settings, click **Submit** button.

Energy Saver/Timer

This section explains how to configure the Energy Saver Settings and Timer Settings.

Energy Saver Settings

1. Click **Energy Saver/Timer** under **Device Settings** on the navigation menu. The **Device Settings : Energy Saver/Timer** page opens.
2. You can configure the following settings.

Sleep Level

Select **Quick Recovery** or **Energy Saver**. Even if you selected either sleep level, the machine can recover from the sleep mode when you press any key on the operation panel or the machine received the print or fax job.

Quick Recovery recovers from the sleep mode faster than Energy Saver.

Energy Saver reduces power consumption even more than **Quick Recovery**, and allows sleep mode to be set separately for each function. The time required for the machine to wake up from the sleep mode and resume normal operation will be longer than for **Quick Recovery**.

Alternatively, 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.

Sleep Rule

If you have selected **Energy Saver** as a sleep level, **Card Reader** and **Application** are displayed. If you engage in Energy Saver, select **On**. Select **Off** if you do not want to engage Energy Saver.
Note: **Card Reader** is displayed when Card Authentication kit is activated.

Auto Sleep

Click **Settings** button to open the **Auto Sleep Settings** page. Click **On** if you want to use Auto Sleep and click **Submit** button.

Sleep Timer

Specify the time period in the drop-down list, after that time period the system enters Auto Sleep Mode.

Low power Timer

Specifies the time after which the system enters the low power mode, where it reduces the power consumption.

Power Off Timer

Specifies the time from 1 hour to 1 week after which the system enters the power off mode, where the device automatically turns off after a certain amount of time elapses the device was last used.

Power Off Rule

Click **On** of the appropriate radio button for the interface or device you would like to engage in power off mode. Click **Off** if you do not want to engage power off mode for the interface or device.

Energy Saver Recovery Level

Select **Full Recovery** or **Normal Recovery**.

3. After confirming the settings, click **Submit** button.

Set Timer

1. Click **Energy Saver/Timer** under **Device Settings** on the navigation menu. The **Device Settings : Energy Saver/Timer** page opens.
2. This page allows the following settings:

Auto Panel Reset

Configures the panel to be automatically reset. Activate this setting to open **Panel Reset Timer** and specify the time between 5 and 495 seconds after that the panel will be automatically reset.

Interrupt Clear Time

This determines the time period before the machine reverts to normal mode, after the interrupt copy mode has been engaged. The range is 5 to 495 seconds.

WSD scan timer

This determines the time period before the machine reverts to normal mode, after WSD scan mode has been engaged. The range is 10 to 495 seconds (in 1-second increments).

Weekly timer

This page allows the following settings: Activate or deactivate this setting. To make advanced settings, click **Settings**. The **Weekly Timer Settings** page appears. In **Schedule**, set to turn power on or off for each day of the week. Enter time for activation. To set the time of retries, specify the limit of retries in **Retry Times** and enter a value in **Retry Times** and **Retry Interval**.

Auto File Deletion Time(Custom Box)

Set the time to automatically delete stored documents in the custom box.

3. After confirming the settings, click **Submit** button.

Date/Time

This section includes advanced settings on date and time.

Date/Timer Settings

1. Click **Date/Time** under **Device Settings** on the navigation menu. The **Device Settings : Date/Time** page opens.

   The following items are displayed:

   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.

2. Make changes in the settings if needed.

   Select **Date**, **Year**, **Month**, **Day**, **Time**, **Date Format**, **Time Zone**, or **Summer Time** which you want to make a change.

3. After confirming the settings, click **Submit** button.

Synchronize

1. Click **Date/Time** under **Device Settings** on the navigation menu. The **Device Settings : Date/Time** page opens.
2. Make changes in the settings if needed.

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.

If you use the host name, you must first specify the DNS server information.

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.

3. Click **Submit** button.

System

This section includes advanced settings that apply to the system.

If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

Device Information

1. Click **System** under **Device Settings** on the navigation menu. The **Device Settings : System** page opens.
2. Make changes in the settings if needed.

   Enter **Host Name**, **Asset Number**, and **Location**, accordingly.

   If you use the host name, you must first specify the DNS server information.
3. Click **Submit** button.

General

1. Click **System** under **Device Settings** on the navigation menu. The **Device Settings : System** page opens.
2. Make changes in the settings if needed.

Language

Select the language.

Optional Memory

When an optional memory is installed, select the memory allocation pattern according to your purpose.

Software Keyboard Layout

Select an appropriate type of keyboard.

USB keyboard type

Select an appropriate type of USB keyboard.

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.

Measurement

Select the unit of measurement for entry.

Preset Limit

Specify the number of copies limited to print.

Default Screen

Select the screen to set as the default screen.

Default screen (Send/FAX)

Select the screen to set as the default screen.

Default Address Book

Select common address book or external address book as the default address book.

Destination History Usage

Select **Permit** when you use the destination history.

Reset Destination History

Click **Reset** button when you want to reset the destination history.

Orientation Confirmation

Activate or deactivate the prompt that confirms the orientation of original documents.

Bluetooth

Specifies whether to use the bluetooth keyboard.

Numeric Keyboard Settings

You can configure the following settings.

1. **Default Display (Copy/Box Print)**: Specifies whether to display the numeric keyboard on Copy/Box print screen.
2. **Default Display (HyPAS Application)**: Specifies whether to display the numeric keyboard when using the HyPAS application.
3. **Layout (HyPAS Application)**: Select the keyboard layout when activating the HyPAS application.

NFC

Specifies whether to perform the wireless communication using NFC. Select **On** and click **Submit** button to display **Application to Launch** drop-down menu. You can select **None**. **TA/UTAX MyPanel**, **TA/UTAX Mobile Print** and **Manual**. The applications to launch are only available for Android device.

For example, when selecting **TA/UTAX MyPanel**, by tapping the mobile device on the NFC tag, the installed MyPanel will start automatically.

Note: When the application is not installed, the device will move to the download page of Google Play.

If you wish not to launch the application, select **None**.

When selecting **Manual**, **Application URL** is displayed. Enter the URL which you want to launch automatically. You can enter up to 254 characters (except ASCII characters, \, /, :, *, ?, ", <, and >).

Clear Settings after Job Started

Set whether to clear the function settings to the default after job started.

Motion Sensor

Automatically wake up from low power mode or sleep mode when someone approaches the device. Select the sensitivity of the Motion Sensor from the drop-down list.
Note: Displayed on models equipped with a motion sensor.

Card Position on Platen

Select **Free** or **Upper Left** as the card position on the platen glass.

Layout for ID Card Copy

Select the layout of the ID card copy from **Align Upper Right** or **Align Center**.

Prevent Original Skewing

When scanning the originals from the Document Processor (Dual Scan with Skewed and Multifeed Detection), select **On** to prevent them from skewing.

Same Width Originals

Select **On** to prevent originals from skewing when scanning them with same width.

Different Width Original

Select **On** to prevent originals from skewing when scanning them with different width.

3. Click **Submi**t button.

Error Settings

1. Click **System** under **Device Settings** on the navigation menu. The **Device Settings : System** page opens.
2. Make changes in the settings if needed.

Color Toner Empty Action

Select the action when color toner is empty, whether you want to cancel printing or print forcibly in black and white mode.

MP tray Empty

Activate or deactivate the attention display when the MP tray has become empty.

Auto Error Clear

Activate or deactivate automatic error clearing at an error. If activated, printing will automatically resume after the time period that you can specify from 5 to 495 seconds.

Error Job Skip

Activate or deactivate automatic job skipping at an error. If activated, printing will automatically resume by skipping the job in error after the time period that you can specify from 5 to 90 seconds.

Low Toner Alert

Set the amount of remaining toner to notify the administrator when to order a toner when the toner is running low.
This notification is used for event report, Status Monitor, SNMP Trap.
Selecting **Off** alerts you low toner when the amount of remaining toner becomes 5%.
If **On** is selected, set the amount of remaining toner to alert. The setting range is 5 to 100%.

Toner Waste Full Alert

Notifies the user (via operation panel) or the administrator when the waste toner box is almost full. Set the notification timer based on the amount of toner in the waste toner box. This notification to the administrator is used for event report, Status Monitor, SNMP Trap.
If **On** is selected, set the notification timer based on the amount of toner in the waste toner box. The setting range is 10 to 90% (in 10% increments).

Continue or Cancel Err. job

Select **All users** or **Job owners only** as the target users who can cancel or continue operations on jobs paused due to error.
Note: Administrator can cancel all jobs regardless of this setting.

Image Preview at DP jam

When the originals jammed in the Document Processor, set whether to display the finished image in preview when scanning.

3. Click **Submit** button.

7 Function Settings

This page is accessible when you have logged in the embedded server with administrator privilege, while network authentication or local authentication is enabled. If needed, make the following settings: See below for detailed information.

- Common/Job Default
- Copy
- Printer
- E-mail
- Sending Job - Folder
- FAX/i-FAX
- Send and Forward
- RX/Forward Requirements
- Operation Panel

Common/Job Default

In this section, you can make settings for the following items:

Common Settings

1. Click **Common/Job Defaults** under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. Make changes in the settings if needed.

Priority Setting

Activate or deactivate automatic zooming with priority.

OCR Text Recognition Action

You can select this item when the optional Scan Extension kit (A) is activated.

3. Click **Submit** button.

Job Default Settings

1. Click **Common/Job Default**s under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. You can make changes for the following items as required.

Document name

Name the default document used in the print job.

Additional Info.

Select the date, job number, etc.

Separator Paper Source

Select the default paper source for separator sheets.

3. Click **Submit** button.

Scan Default Settings

1. Click **Common/Job Defaults** under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.

2. You can make changes for the following items as required.

Original Orientation (Copy)

You can select **Auto**, **Top Edge on Top** or **Top Edge on Left** as the original orientation.
Note: **Auto** can be configured when an optional OCR Expansion kit is activated.

Original Orientation (Send/Store)

You can select **Auto**, **Top Edge on Top** or **Top Edge on Left** as the original orientation.
Note: **Auto** can be configured when an optional OCR Expansion kit is activated.

Color Selection (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 **Black & White** to forcedly switch color mode.

Scan Resolution

Specifies the resolution for scanning. The resolutions available differ depending on the model, current color mode, and the saving format of files. To scan in full color or grayscale with a solution of 400 dpi or greater, the internal memory must be expanded for some models.

Original Image (Copy)

The original quality for scanning or storing must be selected according to the type of the original. Select from **Text+Photo (Printer)**, T**ext+Photo (Magazine)**, **Photo (Printer)**, **Photo (Magazine)**, **Photo (Photo Paper)**, **Text**, **Text (Fine Line)**, **Graphic/Map (Printer)**, and **Graphic/Map (Magazine)**.
Note: You can select Color table from the drop-down list when it is downloaded.

Original image (Send/Store)

The original quality for scanning or storing must be selected according to the type of the original. Switch the original quality from **Text+Photo**, **Photo**, **Text**, **Text (for OCR)**, and **Text (Fine Line)**.

Zoom %

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

Background Density (Copy)

This removes dark background from originals, such as newspapers, when copying.

Background Density (Send/Store)

This removes dark background from originals, such as newspapers, when sending or storing a job.

Continuous Scan (Copy)

Activates or deactivates Continuous Scan for copy.

Continuous Scan (Send/Store)

Activates or deactivates Continuous Scan for send or store.
Note: Some machine products display **Continuous Scan (Except FAX)**. Activates or deactivates Continuous Scan except fax.

Continuous Scan (Fax)

Activates or deactivates Continuous Scan for fax.

Border Erase (Copy)

Select the type of border erase from the drop-down menu when copying. In **Border Erase**, set the width of the **Border** (outer) and **Gutter** (inner) borders to erase in 0 to 50mm. You can set border erase for the reverse side on **Back Page**.

Border Erase/Full Scan (Send/Store)

Select the type of border erase from the drop-down menu when sending or storing. You can also select **Full Scan** which scans all area of original as image. In **Border Erase**, set the width of the **Border** (outer) and **Gutter** (inner) borders to erase in 0 to 50mm. You can set border erase for the reverse side on **Back Page**.

Border Erase/Full Scan (Fax)

Select the type of border erase from the drop-down menu when sending fax. You can also select **Full Scan** which scans all area of original as image. In **Border Erase**, set the width of the **Border** (outer) and **Gutter** (inner) borders to erase in 0 to 50mm. You can set border erase for the reverse side on **Back Page**.

Prevent Bleed-through (Copy)

Activate or deactivate Prevent Bleed-through for copying.

Prevent Bleed-through (Send/Store)

Activate or deactivate Prevent Bleed-through for sending and storing.

Skip Blank Page (Copy)

Activate or deactivate Skip Blank Page for copying.

Skip Blank Page (Send/Store)

Activate or deactivate Skip Blank Page for sending and storing.

Prevent Light Reflection

Activate or deactivate Prevent Light Reflection when using the Erase Shadowed Areas feature.

Erase Shadow Areas - Copy

Select the default Erase Shadowed Areas (Copy) setting.

Erase Shadow Areas - Send

Select the default Erase Shadowed Areas (Send) setting.

Erase Shadow Areas - Store

Select the default Erase Shadowed Areas (Store) setting.

Detect Multi-fed Originals

Configure whether to stop scanning originals if the multiple feeding of documents is detected when using the document processor.

Detect Non-standard Size (Copy)

Select whether to detect a size outside the standard sizes during copying.

Detect Non-standard Size (Send/Store)

Select whether to detect a size outside the standard sizes during sending or storing.

Detect Scan Failure

Select whether to detect a scan failure when scanning a document from the document processor.

Original Type (Copy)

Select original types when copying. You can also select the binding direction when copying 2-sided documents.

Original Type (Send/Store)

Select original types when sending or storing. You can also select the binding direction when sending or storing 2-sided documents.

3. Click **Submit** button.

Output Default Settings

1. Click **Common/Job Default**s under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. You can make changes for the following items as required.

EcoPrint

Switches EcoPrint **On** or **Off** to control toner consumption for saving the printing costs. The default setting is **Off**. When selecting **On**, you can select **Toner Save Level** from **1 (Low)** to 5 **(High)**, according to the machine.

Margin

You increase or decrease the top and left gutters from -18 to +18mm.

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.

Color Balance

Adjust the strength of cyan, magenta, yellow, and black.You can configure the each color strength from the drop-down list.

Print Mode

To set how many sides of copy are in the output, select either 1-sided or 2-sided as print mode.

Binding Orientation for Duplexing

Set the default binding orientation of duplexing.

Book to 2-sided

Set the default desired Duplex option.

Collate/Offset

Select the default collate/offset settings. When **Collate** is set to **On**, the documents are collated by copy (**Offset** is set to **Each Set**). When **Collate** is set to **Off**, the documents are collated by page (**Offset** is set to **Off**), according to the machine.

FAX TX Resolution

This selects the resolution to fax a document.

E-mail Template

This allows to create a template for entering a subject and body information of E-mail. Up to three templates can be created and configured with the default settings according to the machine.

i-FAX Template

This allows to create a template for entering a subject and body information for i-FAX.

3. Click **Submit** button.

Copy Default Settings

1. Click **Common/Job Default**s under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. You can make changes for the following items as required.

Color Selection (Copy)

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

Auto Image Rotation

Activate or deactivate automatic image rotation mode.

DP Read Action

You can prioritize to use the document processor either in faster scanning or better quality scanning.

Platen Scan Action

You can prioritize to use the platen either in faster scanning or better quality scanning.

Repeat Copy

Enables additional copies in the desired quantity as necessary after a copy job is completed.
Note: **Repeat Copy** is not displayed when an optional Data Security Kit is activated or a Repeat Copy job is cleared.

Skip Blank Page

You can choose whether blank pages should be delivered or not.

3. Click **Submit** button.

File Default Settings

1. Click **Common/Job Defaults** under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. You can make changes for the following items as required.

File Format

The file format is available from **PDF**, **TIFF**, **JPEG**, **XPS**, **High Compression PDF**, **Open XPS**, **Word**, **Excel** and **PowerPoint**.
Note: Word, Excel and PowerPoint can be configured when an optional OCR Expansion kit is activated.

Image Quality

This determines the quality of the image when saved, from **1 Low Quality (High Comp.)** to **5 High Quality (Low Comp.)**.

PDF/A

Turns PDF/A-compliant format **PDF/A-1a**, **PDF/A-1b**, **PDF/A-2a**, **PDF/A-2b**, **PDF/A-2u** or **Off**, when File Format above is PDF. PDF/A is an electronic file format for long-term preservation of documents as addressed in the ISO 19005-1 specification.

OCR Text Recognition

You can convert the scanned document to the text data when you selected **PDF** or **High Compression PDF** as the file format.

Primary OCR Language

You can choose the primary OCR language from the drop-down list.

OCR Output Format

You can choose the OCR output format from the drop-down list.
Text + Graphics converts the scanned documents into the editable and searchable Microsoft Office data format.
Text + Graphics with Scanned Image converts the scanned documents into two types of data: one is the editable and searchable Microsoft Office data format and

the other one is the Microsoft Office data format with scanned image. You can edit text and layout of the editable data by referring the scanned image.
Scanned Image with Searchable Text converts the scanned documents into the searchable Microsoft Office data format (scanned image).

Note: **OCR Text Recognition**, **Primary OCR Language**, and **OCR Output Format** can be configured when an optional OCR Expansion kit is activated.

Color TIFF Compression

This allows to select **TIFF V6** or **TTN2** format for compression of color TIFF images.

File Separation

This extract pages as separate files from an output file. You can specify the number of file separation from 1 to 2500 when setting to **On**. Also, select **All Files in 1 E-mail** or **1 file per E-mail** as **Method of Attachment to E-mail**.

Digital Signature

Specifies whether or not to add the digital signature. Select **Off**, **Specify Each Job**, or **On**.

Digital Signature Format

Select the digital signature format from the drop-down list.

Signing Certificate

Click **Settings** button. The **Certificate Setting** screen appears. Select a certificate from the list, click **Submit** button. Configure the certificate setting in the **Security Settings: Certificates** page.

Certificate Auto Verification

Select **Validity Period**, **KeyUsage**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type

Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

Hash

Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.

Password Confirmation on Signature Permission

Specified whether or not confirm the password when setting the digital signature. When selecting **On**, you can configure the password.
Note: **Password Confirmation on Signature Permission** is displayed only when **Specify Each Job** is selected in **Digital Signature**.

Password

Enter the password to confirm when setting the digital signature.

3. Click **Submit** button.

Confidential Document Settings

This section provides advanced settings for sensitive document detection.

You can block the loading of sensitive documents to prevent critical data from escaping.

1. Click **Common/Job Defaults** under **Function Settings** on the navigation menu. The **Function Settings : Common/Job Defaults** page opens.
2. Click **Settings** button. **Confidential Document** page opens.
3. You can make changes for the following items as required.

Confidential Document Settings

Select a type of confidential document detection from the drop-down list.
Selecting **On (Display Alert)** displays an alert when the machine detects confidential information from the scanned information.
Selecting **On (Request Password)** displays the password entry screen when the machine detects confidential information from the scanned information. Specify a password of 6 to 16 characters.
Selecting **On (Cancel job)** cancels the job when the machine detects confidential information from the scanned information.
Selecting **Off** to not detect confidential information.

Watermark

Sets the watermark detection sensitivity detected by AI.

1. In **Text to Detect**, select the watermark to detect. You can also select data (Image 1 to 5) stored in the Stamp Box.
   For details on how to register watermark in the Stamp Box, refer to *Stamp Box* on page 16.
2. Select the language you want to detect from the **Language** drop-down list.
3. Use the **Detection Sensitivity** drop-down list to select a detection sensitivity (1 (low) to 5 (high)) for each watermark selected in **Text to Detect**.

Header and Footer Settings

Sets the string to detect in the header and footer.
Note: Header and footer string detection can be configured when the optional OCR Scan Activation Kit is installed.

1. In **Text to Detect**, select the strings you want to detect in the header and footer. You can select multiple strings.
2. Select the language you want to detect from the **Language** drop-down list.
3. Select the detected position of header and footer in **Position to Detect**.
4. When the string you want to detect is not included in **Text to Detect**, you can register up to five strings in **Text Registration**. Enter the string you want to detect (up to 32 characters).

4. Click **Submit** button.

Copy

This section includes advanced settings for copying.

1. Click **Copy** under **Function Settings** on the navigation menu. The **Function Settings : Copy** page opens.
2. You can make changes for the following items as required.

Reserve Next Priority

Activate or deactivate to prioritize the next job reserved.

Auto Image Rotation Action

Select the behavior of automatic image rotation in three ways.

Color Table (Copy)

You can specify the color table name.
Note: Color table (Copy) is displayed only when it is downloaded.

3. Click **Submit** button.

Function Default

The default settings can be changed in **Common/Job Defaults Settings** page.

Printer

This section includes advanced settings for printing.

If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

General

1. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings : Printer** page opens.
2. You can make changes for the following items as required.

Emulation

Set the Emulation Mode.

Alternate Emulation

When you have selected **KPDL(Auto)** as emulation mode, you can switch between KPDL and another emulation mode (alternative emulation) automatically according to the data to print.

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.

Form Feed Timeout

Adjusts the form feed timeout between 5 and 495 seconds in 5-second increments. A form feed will occur in the absence of data during this time period.

Job Name

Select the job number, job name, etc.

User Name

Activate or deactivate to use User Name.

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.

Wide A4

Activate (**On**) or deactivate (**Off**) Wide A4 size for printing.

Auto Cassette Change

You can select the actions when the paper runs out in the paper source while printing.
When selecting **Off**, the machine displays message to load paper in paper cassette and stops printing. Load the paper according to the paper source displayed to resume printing. You can also select the desired paper source.
When selecting **On**, the machine continues printing automatically if the other paper cassette contains the same paper as the currently-used paper cassette.

Printing Job Terminator

You can select the condition which regarded as a job termination if the print job could not be processed until the end due to your environment and the other reason.
When selecting **EOJ (End of Job)**, the termination of the job data (R RES;!! EXIT;) is regarded as one job until it is detected.
When selecting **End of Network Session**, the data included in a network session at network connection is regarded as one job.
When selecting **UEL (Universal Exit Language)**, the UEL included in the termination of the job data is regarded as one job until it is detected.

Remote Printing

Permit or prohibit remote printing.

Direct Printing from Web

When you execute direct printing from Embedded Web Server, select **Allowed**.

3. Click **Submit** button.

Executing Direct Printing from Embedded Web Server

To execute direct printing from Embedded Web Server, proceed the steps as follows.

Note: To execute direct printing from Embedded Web Server, select **Allowed** on **Direct Printing from Web** in **Function Settings : Printer** page.

1. Start up the browser.
2. Enter "https://" and host name of the machine to start up the Embedded Web Server.
3. Click **Home** to display **Home** page.
4. Click **Direct Printing** button on the right of the Printer icon in **Device Status**.

5. Click the button on the right of the **Direct Printing File** to select the file to print from the list.

6. Configure the Job Settings.

   1. Use the **Paper Selection** drop-down list if you want to change the paper source.
   2. Select the number of copies to print in **Copies**.
   3. Use the **Color Selection** drop-down list if you want to change the color of the document when it is printed.
   4. Select **1-sided**, **2-sided (Binding Left/Right)**, or **2-sided (Binding Top)** as duplex mode.
   5. Switches EcoPrint **On** or **Off** to control toner consumption for saving the printing costs. When selecting **On**, you can select **Toner Save Level** from **1 (Low)** to **5 (High)** according to the machine.
   6. If the PDF is encrypted, enter the password in **Encrypted PDF Password**.
   7. Specify 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.
   8. Use **Paper Output** drop-down list to configure the default output tray.
   9. Select the default collate/offset settings. When **Collate** is set to **On**, the documents are collated by copy (Offset is set to Each Set). When **Collate** is set to **Off**, the documents are collated by page.

7. Click Print button. The selected file will be printed without printer driver.

AirPrint Settings

1. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings : Printer** page opens.

2. Click **Settings** button. The **AirPrint** Settings page opens.

   You can make changes for the following items as required.

   AirPrint

   The default setting is **On**.

   Bonjour Name

   Enter the Bonjour name.

   Location

   Enter the location of the machine on **Location** of the **System Settings** page under **Device Settings**.
   Note: When you enter **Location**, the location appears under the printing device name appears on the printer selection screen using the mobile device. The location also appears on the title (upper right) of Embedded Web Server.

   Geolocation

   Specifies whether or not to set the geolocation information of the machine. If this setting turns **On**, **Latitude**, **Longitude** and **Altitude** appear on the **AirPrint** page.
   Note: Even if **Geolocation** is set to **Off**, AirPrint works properly.

   Latitude

   Enter the latitude of the machine from -90.000000 to 90.000000 degrees.

Longitude

Enter the longitude of the machine from -180.000000 to 180.000000 degrees.

Altitude

Enter the altitude of the machine from 0 to 10000 meters.

Universal Print Settings

Universal Print is a service that allows users to share printers via the cloud. You can use the printer shared in advance from LAN or an external network. You can send a print job to a shared printer via Universal Print.

Note: Only IB-37 can use Universal Print as the external network interface (IB-51, IB-53 and IB-54 are not supported).

To use Universal Print, the following conditions are required.

- The license of Universal Printer has been granted.
- All administrators have Printer Administrator or Global Administrator privileges.
- Microsoft Authenticator is installed on your mobile device.

Preparation before setting

1. Click **Protocol** under **Network** Settings on the navigation menu. The **Network Settings : Protocol** page opens.
2. Access to **Universal Print** at **Other Protocols**.
3. Set **Use Default Settings** to **Off** and confirm **Certificate Auto Verification** and **Hash**. Change the settings as necessary. If you do not have to change the settings, set **Use Default Settings** to **On**.
4. Click **Submit** button.
5. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings: Printer** page opens.
6. Click **Settings** button in **Universal Print Settings**. The **Universal Print Settings** page is displayed.
7. You can configure settings for **General**. Make the following setting:

    1. **Printer Name**: Displays the device name. You can modify the name as necessary.
    2. **Proxy**: Click **Settings** button. The **TCP/IP Settings** page opens.
       If you do not use a proxy server, set **Proxy** to **Off**.
       If you configure the proxy, set **Proxy** to **On**, and specify the following items as necessary. For details, see *Proxy settings* on page 68.
       After configuring settings, return to the **Universal Print Settings** page.
    3. **Proxy Authentication**: Enter **User Name** and **Password** for proxy authentication.

Registering a printer with Universal Print

The operation from registering the printer to adding it to the computer should be completed within 15 minutes.

1. Launch the Microsoft Authenticator installed on your mobile device.
2. You can configure settings for **Universal Print**. Click **Register** button. The URL and access code of the Microsoft web page are displayed.

3. Click the URL. The Microsoft web page are displayed. Enter an access code and click **Next** button.

   Note: If you do not install the Microsoft Authenticator yet, follow the on-screen instructions to install it on your mobile device.

4. Log in using your Azure administrator's account name and password.

   Note: Permission is required only when registering for the first time.

5. Click **Accept** button for the accept request from Microsoft Authenticator.

6. Close the Microsoft web page and return to the Embedded Web Server.

7. Click **OK** button.

   Note: When pressing **OK** button, **Register** button on the **Universal Print Setting** page changes to the **Unregister** button, and the **Certificate Expiration** is displayed. If it is not displayed, click refresh button.

8. Click **Edit** button in **Universal Print Preferences** and drag & copy the Unregisteration URL.

9. Open the new tab on the browser and paste the copied URL. The **Universal Print** web page is displayed.

10. Click **Printer** icon. The printer list is displayed.

11. Check the checkbox next to the name of the printer you want to share and click **Share** button. The user list is displayed.

12. Select the users with whom you want to share the printer and click **Share Printer** button.

    Note: Set **Allow access to everyone in my organization** to **On** to all users in your organization to share the printer.

13. Close the **Universal Print** web page.

Adding a printer to your computer

1. Start the command prompt as an administrator.

2. Enter the following command on the command line.

   netsh winhttp set proxy proxy-server="<Proxy server IP>:<Port number>" bypass-list="

   For example, if the Proxy server IP is 10.184.212.160, the port number is 8080, and the bypass list is * .local, enter the following.

   netsh winhttp set proxy proxy-server="10.184.212.160:8080" bypass-list="*.local"

3. Click **Window** icon, and then **Settings** icon. The **Windows settings** screen is displayed.

4. Click **Account** icon. The user information screen is displayed.

5. Click **Access Work or School**.

6. Confirm that the Azure administrator account name appears in Work or school account.

   Note: If you don't see your Azure administrator account name, click **+** (Connect) and log in using your Azure administrator account name and password.

7. Return to the **Windows settings** screen and click **Device** icon. The **Bluetooth and other devices** screen is displayed.
8. Click **Printers & scanners**. The **Printers & scanners** screen is displayed.
9. Click **+** icon. The printer and scanner are searched.
10. Select the shared printer (Cloud printer) from the list and click **Add device** button. The shared printer is added to your computer.

Unregistering shared printer

Follow the steps to unregister a shared printer.

1. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings: Printer** page opens.
2. Click **Settings** button in **Universal Print Settings**. The **Universal Print Settings** page is displayed.
3. Click **Unregister** button. The URL of web page is displayed.
4. Click the URL. The **Universal Print** web page is displayed.
5. Click **Printer Shares** icon.
6. Check the checkbox next to the printer name you want to unshare, then click **Remove** button and then **OK** button.
7. Click **Printers** icon.
8. Check the check box next to the printer name you want to unregister and click **Unregister** button and then **OK** button.
9. Close the web page and return to the Embedded Web Server.

Note: If successfully unregistered, **Unregister** button on the **Universal Print settings** page will change to **Register** button. If it is not displayed, click **Refresh** button.

Page Control Settings

1. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings : Printer** page opens.
2. You can make changes for the following items as required.

Duplex

Select **1-sided**, **2-sided Bind Long Edge**, or **2-sided Bind Short Edge** as duplex mode.

Copies

Select the number of copies to print.

Page Orientation

Switches **Portrait** or **Landscape** page orientation.

LF Action

Configures LF and CR actions.

CR Action

Configures LF and CR actions.

3. Click **Submit** button.

Print Quality Settings

1. Click **Printer** under **Function Settings** on the navigation menu. The **Function Settings : Printer** page opens.
2. You can make changes for the following items as required.

Gloss Mode

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

Color Selection

Sets Color Mode to **Color** or **Black & White**. This is only available for some color machines.

KIR

Switches KIR smoothing **On** or **Off**.

EcoPrint

Switches EcoPrint **On** or **Off** to control toner consumption for saving the printing costs. The default setting is Off. When selecting **On**, you can select **Toner Save Level** from **1 (Low)** to 5 **(High)** according to the machine.

Resolution

Select the resolution from the drop-down list.

3. Click **Submit** button.

E-mail

This section includes advanced settings for E-mail.

SMTP protocol

1. Click **E-mail** under **Function Settings** on the navigation menu. The **Function Settings : E-mail** page opens.
2. You can make changes for the following items as required.

SMTP Protocol

Display whether a SMTP connection is available or not. Configure SMTP in **SMTP (E-mail TX)** on the **Protocols Settings** page.

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 Settings** page.

SMTP Port Number

Enter the port number that SMTP will use (default is 25). Normally, use port 25, but you can change the port number to suit the email server's application and operation. For example, the default port number for SMTP connections over TLS is 465. The default port number for SMTP authentication is 587.

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. When selecting **On** or **POP before SMTP**, you can select user on the drop-down list. When selecting **Other** from **Authentication as**, you can specify **Login User Name** and **Login Password**.

Proxy Authentication for OAuth2

When selecting **OAuth2** in **Authentication Protocol**, enter user name and password.

OAuth2 Status

When selecting **OAuth2** in **Authentication Protocol**, you can check whether you have access. Select **Authorize** button to revoke OAuth2 authorization.

SMTP Security

Displays SMTP Security. This item appears when **TLS** or **STARTTLS** is selected on **SMTP Security** of the **Protocol Settings** page.

POP before SMTP Timeout

Sets the timeout in seconds during which this device tries to connect to the POP3 server. You can configure this item when you selected **POP before SMTP** as **Authentication Protocol**.

Connection Test

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

Domain Restriction

Activate or deactivate to restrict domains. Click **Domain List** button to configure. Enter a domain name that is permitted or rejected. You can also specify the E-mail addresses.

3. Click **Submit** button.

POP3

1. Click **E-mail** under **Function Settings** on the navigation menu. The **Function Settings : E-mail** page opens.
2. You can make changes for the following items as required.

POP3 Protocol

Display whether a POP3 connection is available or not. Set to **On** on **POP3 (E-mail RX)** of the **Protocol Settings** page. If **Remote Printing** is prohibited, E-mail printing is unavailable. Configure **Remote Printing** in **Printer Settings** 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 of performing checks in the range from 3 minutes to 60 minutes. The default is **15** minutes.

Run once now

Click **Receive** button to immediately receive E-mail from the POP3 server. When **Remote Printing** is set to **Permit**, the machine prints the received E-mail.

Domain Restriction

Activate or deactivate to restrict domains. Click **Domain List** button to configure. Enter a domain name that is permitted or rejected. You can also specify the E-mail addresses.

POP3 User Settings

Click **Settings** button and configure the following user settings. Up to three users can be set.

1. **User Profile 1** (to **3**): Enables or disables the user.
2. **E-mail Address**: Enter the E-mail address.
3. **POP3 Server Name**: Enter the POP3 server host name or IP address. If you use the host name, you must first specify the DNS server information.
4. **POP3 Port Number**: Enter the port number that POP3 will use (default is 110). Normally, use port 110, but you can change the port number to suit the email server's application and operation. For example, the default port number for POP3 over TLS is 995.
5. **POP3 Server Timeout**: Enter the timeout in seconds during which this machine tries to connect to the POP3 server.
6. **Login User Name**: Enter the login name of the user for the POP3 account.
7. **Login Password**: Enter the password to log in the POP3 account.
8. **Use APOP**: Enables or disables APOP. APOP is an encryption mechanism used for encrypting the Login Password during communication with the POP3 server. When **Use APOP** is **Off**, the Login Password is sent using plain ASCII text. When **Use APOP** is **On**, the Login Password is encrypted, therefore cannot be read. APOP requires that the POP3 server supports APOP, and has APOP enabled.
9. **POP3 Security**: Enables or disables POP3 Security. When this protocol is enabled, either **TLS** or **STARTTLS** must be selected. To enable POP3 security, the POP3 port may have to be changed according to the server settings.
10. **Connection Test**: This will test one transmission for each press, attempting to establish communication with the POP3 server.
11. **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.
12. **E-mail Size Limit**: Enter maximum E-mail size in kilobytes. When the value is 0, the limitation for E-mail size is disabled.
13. **Cover Page**: Specifies whether to print the body of an E-mail in addition to the attached files. When this item is set to **On**, the attached files and the body of an E-mail are printed. When no attached files exist, only the body of an 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.

14. **Certificate Auto Verification**: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
15. **Hash**: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.

3. Click **Submit** button.

E-mail Send Settings

1. Click **E-mail** under **Function Settings** on the navigation menu. The **Function Settings : E-mail** page opens.

2. You can make changes for the following items as required.

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.

Signature

Displays the signature to be inserted in the end of the E-mail body.

SMTP Authentication and Sender Address

Select the information source (cites destination) of login user name, password, and e-mail address used for SMTP authentication, and e-mail sender address.
When you select **Use Device Settings**, **Login User Name** and **Login Password** configured in **Function Settings : E-mail** page are used as SMTP authentication user information. **Sender Address** configured in **Function Settings : E-mail** page is used as the sender address information.
When you select **Use Login User Information**, the login user name and password for log in to this machine are used as SMTP authentication user information. This information also applies when you configure for local authentication and network authentication. An e-mail address included in user information (property) which was used to log in to the machine is used as the sender address information.

Configure the function default as necessary. The default settings for e-mail send can be changed in **Function Settings : Common/Job Default Settings** page.

3. Click **Submit** button.

S/MIME Settings

1. Click **E-mail** under **Function Settings** on the navigation menu. The **Function Settings : E-mail** page opens.

2. Select **3DS**, **DES**, **AES-128**, **AES-192** or **AES-256** as encryption method.

3. Configure the Encryption Certificate. You can make changes for the following items as required.

1. **Certificate Auto Verification**: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
2. **Revocation Check Type**: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
3. **Digital Signature**: Select **On**, **Select at Sending**, or **Off**.
4. **Digital Signature Format**: Select the digital signature format from the drop-down list.
5. **Signature Certificate**: Click **Settings** button. The **Certificate Settings** screen appears. Select a certificate from the list, click **Submit** button. Configure the certificate setting in the **Security Settings**: **Certificates** page.

4. Configure the Signing Certificate. You can make changes for the following items as required.

1. **Certificate Auto Verification**: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
2. **Revocation Check Type**: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
3. **Hash**: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.

5. Click **Submit** button.

OAuth2 (Microsoft Exchange) Settings

You can configure preferred OAuth2 settings in Embedded Web Server.

1. Click **E-mail** under **Function Settings** on the navigation menu. The **Function Settings : E-mail** page opens.
2. In OAuth2 (Microsoft Exchange) Settings, select **Settings**.
3. Go to the authentication endpoint URL to configure OAuth endpoint (Microsoft account) to publish.
4. Click **Submit** button.

Scan to Folder

This section includes advanced settings for copying.

FTP Settings

1. Click **Scan to Folder** under **Function Settings** on the navigation menu. The **Function Settings : Scan to Folder** page opens.
2. This allows you to verity the current settings which follow.

FTP

Display whether a FTP connection is available or not. Set **FTP Client (Transmission)** to **On** on the **Protocol Settings** page.

FTP Port Number

Display the FTP port number. Enter **Port Number** on the **Protocol Settings** page.

SMB Settings

1. Click **Scan to Folder** under **Function Settings** on the navigation menu. The **Function Settings : Scan to Folder** page opens.
2. This allows you to verity the current settings which follow.

SMB

Display whether an SMB connection is available or not. Set **SMB** to **On** on the **Protocol Settings** page.

SMB Port Number

Display the SMB port number. Enter **Port Number** on the **Protocol Settings** page.

Function Defaults

1. Click **Scan to Folder** under **Function Settings** on the navigation menu. The **Function Settings : Scan to Folder** page opens.
2. The default settings can be changed in **Common/Job Default Settings** page.

FAX/i-FAX

This section includes advanced settings for FAX/i-FAX.

If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

Common Settings

1. Click **FAX/i-FAX** under **Function Settings** on the navigation menu. The **Function Settings : FAX/i-FAX** page opens.
2. You can configure settings for **Transmission**. Make the following settings:

    1. **Local FAX Name**: Specifies your FAX system name.
    2. **TTI**: Selects **On** or **Off** whether to send the TTI (Transmit Terminal Identifier) information to the other party.
    3. **TTI Position**: Selects the position of the TTI to be printed on the transmitted documents.
    4. **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.
    5. **Retry Times**: Specify the Retry Times from 0 to 14 times.

3. You can configure settings for **Reception**. Make the following settings:

    1. **Media Type**: Sets the media type to print the received documents.
    2. **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.
    3. **FAX Exclusive Paper Source**: Selects the exclusive paper source (cassette) when printing received faxes.
    4. **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.

5. **Receive Data/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.
6. **Duplex Printing**: Specifies whether or not to use the Duplex mode.
7. **2 in 1 Printing**: Enables or disables 2 in1 reception.
8. **Batch Print**: Selects whether or not perform batch print of the received documents.

4. Click **Submit** button.

Fax Settings

1. Click **FAX/i-FAX** under **Function Settings** on the navigation menu. The **Function Settings : FAX/i-FAX** page opens.

2. You can configure settings for **General**. Make the following settings:

1. **Local FAX Number**: Specifies your FAX system number.
2. **Local FAX ID**: Specifies your FAX ID.
3. **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. Select the speaker volume from **0 (Mute)** to **5 (Maximum)**.
4. **Monitor Volume**: Sets the volume of the internal speaker that allows you to verify the FAX tones during FAX communication. Select the speaker volume from **0 (Mute)** to **5 (Maximum)**.

3. You can configure settings for **Transmission**. Make the following settings:

1. **Dialing Mode**: According to the type of telephone line you are contracted with, select **Tone (DTMF)**, **Pulse (10PPS)**, or **Pulse (20PPS)**.
2. **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.
3. **ECM TX**: Turns error correction mode on which corrects errors that may happen during communication. To let the ECM feature to take effect, error correction mode must be enabled on both parties in prior.

4. You can configure settings for **Reception**. Make the following settings:

1. **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.)
2. **Number of Rings (Normal)**: Specifies the number of rings when **FAX Receive** is **Auto (Normal)**. The range is **1** to **15**.
3. **Number of Rings (FAX/Tel)**: Specifies the number of rings when **FAX Receive** is **Auto (FAX/Tel)**. The range is **0** to **15**.
4. **Number of Rings (TAD)**: Specifies the number of rings when **FAX Receive** is **Auto (TAD)**. The range is **1** to **15**.
5. **Remote Switching Dial Number**: Specifies the FAX remote switching dial number. The range is **00** to **99**. Remote switching allows you to initiate FAX reception from a telephone connected to the FAX system.
6. **Encryption Key No.**: Sets the encryption key number used for encrypted communication.
7. **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 that is slower than the other is employed.

8. **ECM RX**: Turns error correction mode on which corrects error that may happen during communication. To let the ECM feature to take effect, error correction mode must be enabled on both parties in prior.
9. FAX Memory RX: Select **On** when you use the FAX Memory RX function.

5. You can configure settings for **Encryption Key**. Make the following settings:

1. **Encryption Key Registration**: Click **Settings** button. The **Encryption Key Registration** page opens. Specifies the encryption key in hexadecimal. The length of the encryption key is 16 digits. Enter the encryption key including the numbers 0-9 and the letters A-F.
2. Click **Submit** button.

6. You can configure settings for **Remote Settings**. Make the following settings:

1. **FAX Remote Diagnostics**: Activate or deactivate the remote FAX diagnosis.
2. **Remote Diagnostics ID**: Enter the ID (four digits) specified from the customer center when you activate the **FAX Remote Diagnostics**.

7. You can configure settings for **TX/RX Restriction**. Make the following settings:

1. **Transmit Restriction**: Selects the transmitting restriction from **Off** and **Permit List + Address Book**.
2. **Receive Restriction**: Selects the reception restriction from **Off**, **Permit List + Address Book**, and **Reject List**.
3. **Unknown Number Reception**: Selects **Reject** or **Permit** when you select **Reject List** from **Receive Restriction**.
4. **Permit No. List**: **Permit No. List** page allows to add the permitted fax numbers and delete the fax numbers specified. Clicking **List** will display **Permit No. List** page. Enter the FAX number to add, then click **Submit** button. To delete a fax number from **Permit No. List**, delete the number from **Permit No. List** page, then click **Submit** button.
5. **Permit ID List**: **Permit ID List** page allows to add the permitted fax IDs and delete the fax IDs specified. Clicking **List** will display **Permit ID List** page. Enter the FAX ID to add, then click **Submit** button. To delete a fax ID from Permit ID List, delete the fax ID from **Permit ID List** page, then click **Submit** button.
6. **Reject No. List**: **Reject No. List** page allows to add the prohibited fax numbers and delete the prohibited fax numbers specified. Clicking **List** will display the **Reject No. List** page. Enter the FAX number to add, then click **Submit** button. To delete a fax number from **Reject No. List**, delete the number from **Reject No. List** page, then click **Submit** button.

8. You can configure settings for **FAX Server**. Make the following settings:

1. **FAX Server**: Select **On** when you use the FAX Server and configure the settings.
2. Click **Submit** button. The **FAX Server Settings** page appears.
3. **Address Settings**: Configure the address information of the fax server.
   a) **Prefix**: Enter the prefix of fax server.
   b) **Suffix**: Enter the suffix of fax server.
   c) **Domain Name**: Enter the domain name of fax server.
   d) **File Format**: Select the file format to which sends the fax server, from the drop-down list.
4. **SMTP**: Configure these settings when you send the fax via SMTP server.
   a) **Use E-mail SMTP Settings**: Select **On** when you use an email SMTP settings to the fax server. When you select **Off**, configure the following settings.
   b) **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 Settings** page.

c) **SMTP Port Number**: Enter the port number that SMTP will use (default is 25)
d) **SMTP Server Timeout**: Sets the timeout in seconds during which this device tries to connect to the SMTP server.
e) **Authentication Protocol**: Enables or disables the SMTP authentication protocol or sets **POP before SMTP** as the authentication type. When selecting **On** or **POP before SMTP**, you can select user on the drop-down list. When selecting **Other** from **Authentication** as, you can specify **Login User Name** and **Login Password**.
f) SMTP Security: Displays SMTP Security. This item appears when **TLS** or **STARTTLS** is selected on **Network Settings : Protocol** page.
g) **POP before SMTP Timeout**: Sets the timeout in seconds during which this device tries to connect to the POP3 server. You can configure this item when you selected **POP before SMTP** as **Authentication Protocol**.
h) **Connection Test**: Tests to confirm that the settings on this page are correct. When **Test** button is clicked, this machine tries to connect to the SMTP server.
i) **Domain Restriction**: Activate or deactivate to restrict domains. Click **Domain List** button to configure. Enter a domain name that is permitted or rejected. You can also specify the E-mail addresses.

5. **POP3 Settings**: Configure **POP3 Settings**. Make the following settings:
   a) **POP3 Server Name**: Enter the POP3 server host name or IP address. If you use the host name, you must first specify the DNS server information.
   b) **POP3 Port Number**: Enter the port number that POP3 will use (default is 110). Normally, use port 110, but you can change the port number to suit the email server's application and operation. For example, the default port number for POP3 over TLS is 995.
   c) **POP3 Server Timeout**: Enter the timeout in seconds during which this machine tries to connect to the POP3 server.
   d) **Login User Name**: Enter the login name of the user for the POP3 account.
   e) **Login Password**: Enter the password to log in the POP3 account.
   f) **Use APOP**: Enables or disables APOP. APOP is an encryption mechanism used for encrypting the Login Password during communication with the POP3 server. When Use APOP is **Off**, the Login Password is sent using plain ASCII text. When Use APOP is **On**, the Login Password is encrypted, therefore cannot be read. APOP requires that the POP3 server supports APOP, and has APOP enabled.
   g) **Connection Test**: This will test one transmission for each press, attempting to establish communication with the POP3 server.
6. **E-mail Send Settings**: Configure the email send settings as necessary, then click **Submit** button.
   a) **E-mail Size Limit**: Enter the maximum size of E-mail to send in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.
   b) **Sender Address**: Displays the sender address used for E-mails sent from this machine. To configure a Sender Address, go to **E-mail Address** on the **POP3 User Settings** page.
   c) **Signature**: Displays the signature to insert in the end of the E-mail body. To configure a signature, go to **E-mail Send Settings** on the **E-mail Settings** page.
7. Default Address Book: Select an external address book from a drop-down list. For details on settings of the external address book, see *External Address Book Settings* on page 20.

Configure the function default as necessary. The default settings for fax function can be changed in **Function Settings : Common/Job Defaults** page.

9. Click **Submit** button.

i-FAX Settings

1. Click **FAX/i-FAX** under **Function Settings** on the navigation menu. The **Function Settings : FAX/i-FAX** page opens.

2. You can configure settings for **TX/RX**. Make the following settings:

1. **i-FAX Protocol**: Display whether an i-FAX connection is available or not. Set **i-FAX (SMTP & POP3)** to **On** on the **Protocol Settings** page.

3. Configures **SMTP**. Make the following settings:

1. **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 Settings** page.
2. **SMTP Port Number**: Enter the port number that SMTP will use (default is 25). Normally, use port 25, but you can change the port number to suit the email server's application and operation. For example, the default port number for SMTP connections over TLS is 465. The default port number for SMTP authentication is 587.
3. **SMTP Server Timeout**: Sets the timeout in seconds during which this device tries to connect to the SMTP server.
4. **Authentication Protocol**: Enables or disables the SMTP authentication protocol or sets **POP before SMTP** or **OAuth2** as the authentication type. When selecting **On** or **POP before SMTP**, you can select user on the drop-down list. When selecting **Other** from **Authentication** as, you can specify **Login User Name** and **Login Password**.
   When selecting **OAuth2**, **Proxy Authentication for OAuth2** is displayed. Enter a user name and password. To confirm that the information for OAuth 2.0 is correct, select **Authorize**.
5. **POP before SMTP Timeout**: Sets the timeout in seconds during which this device tries to connect to the POP3 server. You can configure this item when you selected **POP before SMTP** as **Authentication Protocol**.
6. **Connection Test**: Tests to confirm that the settings on this page are correct. When **Test** button is clicked, this machine tries to connect to the SMTP server.
7. **Domain Restriction**: Activate or deactivate to restrict domains. Click **Domain List** button to configure. Enter a domain name that is permitted or rejected. You can also specify the E-mail addresses.

4. Configure **POP3 Settings**. Make the following settings:

1. **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 of performing checks in the range from 3 minutes to 60 minutes. The default is **15** minutes.
2. **Run once now**: Click **Receive** button to immediately receive E-mail from the POP3 server. When **Remote Printing** is set to **Permit**, the machine prints the received E-mail.
3. **Domain Restriction**: Activate or deactivate to restrict domains. Click **Domain List** button to configure. Enter a domain name that is permitted or rejected. You can also specify the E-mail addresses.
4. **POP3 User Settings**: Click **Settings** button and configure the following user settings.
   a) **E-mail Address**: Enter the E-mail address.
   b) **POP3 Server Name**: Enter the POP3 server host name or IP address. If you use the host name, you must first specify the DNS server information.
   c) **POP3 Port Number**: Enter the port number that POP3 will use (default is 110). Normally, use port 110, but you can change the port number to suit the email server's application and operation. For example, the default port number for POP3 over TLS is 995.
   d) **POP3 Server Timeout**: Enter the timeout in seconds during which this machine tries to connect to the POP3 server.
   e) **Login User Name**: Enter the login name of the user for the POP3 account.

f) **Login Password**: Enter the password to log in the POP3 account.
g) **Use APOP**: Enables or disables APOP. APOP is an encryption mechanism used for encrypting the Login Password during communication with the POP3 server. When Use APOP is **Off**, the Login Password is sent using plain ASCII text. When Use APOP is **On**, the Login Password is encrypted, therefore cannot be read. APOP requires that the POP3 server supports APOP, and has APOP enabled.
h) **Connection Test**: This will test one transmission for each press, attempting to establish communication with the POP3 server.
i) **E-mail Size Limit**: Enter maximum E-mail size in kilobytes. When the value is 0, the limitation for E-mail size is disabled.
j) **Cover Page**: Specifies whether to print the body of an E-mail in addition to the attached files. When this item is set to **On**, the attached files and the body of an E-mail are printed. When no attached files exist, only the body of an 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.

5. You can configure settings for **Transmission**. Make the following settings:

1. **Transmission Type**: Allows to choose a method of sending from **Specify for Each Destination**, **Via Server - On**, and **Via Server - Off (Direct SMTP)**.
2. **Direct SMTP Sender Address**: Enters the sender address who send the E-mail used by Direct SMTP.
3. **Direct SMTP Port Number**: Enter the port number used by Direct SMTP. The default port number is **25**.
4. **Direct SMTP Timeout**: Sets the timeout time in seconds during which this device retries to connect to the SMTP server.

6. You can configure settings for **Reception**. Make the following settings:

1. **Direct SMTP Port Number**: Enter the port number used by Direct SMTP. The default port number is 25.
2. **Direct SMTP Timeout**: Sets the timeout time in seconds during which this device retries to connect to the SMTP server.

7. You can configure settings for **E-mail Send Settings**. This section includes the following items for configuration:

1. **E-mail Size Limit**: Enter the maximum size of E-mail to send in Kilobytes. When the value is 0, the limitation for E-mail size is disabled.
2. **Sender Address**: Displays the sender address used for E-mails sent from this machine. To configure a Sender Address, go to **E-mail Address** on the **POP3 User Settings** page.
3. **Signature**: Displays the signature to insert in the end of the E-mail body. To configure a signature, go to **E-mail Send Settings** on the **E-mail Settings** page.
4. **Function Default**: The default settings can be changed in **Common/Job Default Settings** page.

Configure the function default as necessary. The default settings for i-FAX function can be changed in **Function Settings : Common/Job Defaults** page.

8. Click **Submit** button.

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.

General

1. Click **Send and Forward** under **Function Settings** on the navigation menu. The **Function Settings : Send and Forward** page opens.
2. This section includes the following items for configuration.

Send and Forward

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

Rule

Selects any of **E-mail**, **Folder (SMB)**, **Folder (FTP)**, **FAX**, **i-FAX (Via server - On)**, and **i-FAX (Via server - Off)** to apply the Send and Forward.

3. Click **Submit** button.

Destination

1. Click **Send and Forward** under **Function Settings** on the navigation menu. The **Function Settings : Send and Forward** page opens.
2. This section includes the following items for configuration.

Address Book

Click **Address Book** icon and select a type and a name of the address on the address page.

E-mail

Email forwards the E-mail to the E-mail address entered. Click **E-mail** icon to specify an E-mail address. You can change the address by clicking **Address Book**. Click **Submit** button to finalize settings.

Folder

Forwards and saves a job in a folder (SMB or FTP). Enter the Host Name, Port Number, path to a folder, Login User Name, and the Login Password. You can confirm the connection status by clicking **Test** button. You can also edit an address by clicking **Address Book**. Click **Submit** button to finalize settings.
If you use the host name, you must first specify the DNS server information.

Delete

Deletes the address selected.

3. Click **Submit** button.

Forward Job Settings

1. Click **Send and Forward** under **Function Settings** on the navigation menu. The **Function Settings : Send and Forward** page opens.
2. This section includes the following items for configuration.

Color Selection

This selects color mode for scanning and storing. **Auto Color (Color/Grayscale)** and **Auto Color (Color/B & W)** 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 for scanning. The resolutions available differ depending on the model, current color mode, and the saving format of files. To scan in full color or grayscale with a solution of 400 dpi or greater, the internal memory must be expanded for some models.

File Format

Selects file type to stored the scanned document.

Image Quality

Selects the image quality when saving a scanned document **1 Low Quality (High Comp.)** to **5 High Quality (Low Comp.)**.

PDF Encryption

Apply encryption to the PDF files to send-and-forward. When turned **On**, this page allows the following settings:

1. **Compatibility**: You can change the PDF version by choosing a compatibility option when you save a job in PDF.
2. **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.
3. **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.
4. **Printing Allowed**: Restrict printing of the document.
5. **Change Allowed**: Restrict editing of the document.
6. **Copying of Text/Images/Others**: Allow copying objects including images and text for pasting into other document.

PDF/A

Turns PDF/A-compliant format **Off**, **PDF/A-1a**, **PDF/A-1b**, **PDF/A-2a**, **PDF/A-2b, PDF/A-2u** or when File Format above is PDF. PDF/A is an electronic file format for long-term preservation of documents as addressed in the ISO 19005-1 specification.

File Separation

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

E-mail Subject

The Subject is entered here.

FTP Encryption TX

This enables or disables encryption for communication. When turned **On**, the encryption algorithm that is selected by **Network Security Settings** page is used.

S/MIME

Select E-Mail Encrypted TX to **On** to send the encrypted e-mail using S/MIME.

3. Click **Submit** button.

RX/Forward Rules

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 to a forward destination or printed.

Enabling RX/Forward Rules

To use the RX/Forward Rules function, enable this setting.

1. Click **RX/Forward Rules** under **Function Settings** on the navigation menu. The **Function Settings : RX/Forward Rules** page opens.
2. Click **Settings** button. **RX/Forward Rules Settings** page opens.

   Select **Off**, **Use Rule for Specific RX**, or **Rule for All RX** from the drop-down list.

   When you select **Rule for All RX**, you can configure **Schedule**, **File Name**, **Forward Settings** and **Print Settings** as rules. For details, refer to *Add Rule* shown below.

   If **Forward Rules Settings** page opens, configure the detailed information of the rules.
3. Click **Submit** button.

Add Rule

1. Click **Add Rule** button. The **New Rule - Property** page appears.
2. This section includes the following items for configuration.

Use Rule

Select **On** when you use the new rule.

General

Configure the general information on the rule.

1. **Rule Number**: Enter the rule number from 001 to 100.
2. **Rule Name**: Enter the rule name.
3. **Priority**: Select the priority of the rule from the drop-down list.

Rule Settings

Configure the rule settings.

1. **Rule Type**: Select **FAX Sub Address**, **FAX Number**, **Reception Port** or **i-FAX Address**.
2. **Sub Address**: Displays when you select **FAX Sub Address** as **Rule Type**. Enter the sub address.

3. **FAX Number**: Displays when you select **FAX Number** as **Rule Type**. After selecting rule, enter the fax number.
4. **Reception Port**: Displays when you select **Reception Port** as **Rule Type**. Select **Port 1** or **Port 2**.
5. **i-FAX Address**: Displays when you select **i-FAX Address** as **Rule Type**. After selecting rule, enter the i-FAX address.

Schedule

Configure the schedule for the specified rule.

1. **Schedule**: Select **All Day** or **Preset Time**.
2. **Start Time**, **End Time**: You can configure the setting when you select Preset Time as Schedule. Specify the time table from the drop-down list.

File Name

Configure the file name created when forwarding.

1. **File Name**: Enter the file name.
2. **Additional Information**: Select the additional information on the file name from the drop-down list.

Forward Settings

Configure the forward destination.Select the destination on the list, and then click the **Delete** icon.

1. **Forwarding**: Select **On** and click the desired address button to specify the forwarding destination.
2. **Address Book**: Click **Address Book** button to open the **Addresses** page. Select the desired Address Book and click **Submit** button.
3. **E-mail**: Click **E-mail** button to open the **E-mail** page. Enter E-mail Address and E-mail Address (Confirmation), and then click **Submit** button.
4. **Folder**: Click **Folder** button to open the **Folder** page.
   Protocol: Select **SMB** or **FTP**.
   Host Name: Enter the host name. If you use the host name, you must first specify the DNS server information.
   Port Number: Enter the port number from 1 to 65535.
   Path: Enter the path of the folder.
   Login User Name: Enter the login user name.
   Login Password: Enter the login password.
   Connection Test: Click **Test** button to confirm the connection to the folder.
5. **FAX**: Click **FAX** button to open the **FAX** page.
   FAX Number: Enter the fax number.
   Sub Address: Enter the sub address.
   Password: Enter the password for the sub address.
   TX Start Speed: Select **33600 bps**, **14400 bps**, or **9600 bps**.
   ECM: Select **On** to use ECM communication.
   Encryption: Select **Off**, **Key 1** to **Key 20**. You can select **Key 1** to K**ey 20** when registering the encryption key in **FAX Settings** page under **Function Settings**.
   Encryption Box: Select **On** to use the encryption box. You can configure this setting when the encryption key is selected on **Encryption**.
   Encryption Box No.: Enter the box number (4 digits). You can configure this setting when the encryption key is selected on **Encryption** and **Encryption Box** is set to **On**.
6. **i-FAX**: Click **i-FAX** button to open the i-FAX page.
   i-FAX Address: Enter the i-FAX address.
   Via Server: Select **On** to send i-FAX via server.
   Connection Mode: Select **Simple** or **Full**.
   Resolution: Select **200 x 100 dpi**, **200 x 200 dpi**, **200 x 400 dpi**, **400 x 400 dpi** or **600 x 600 dpi**.

Compression: Select **MH**, **MR**, **MNR**, or **JBIG**.
Paper Size: Select **A4/Letter**, **B4**, or **A3/Ledger**.

7. **File Format**: Select **PDF**, **TIFF**, **XPS** or **OpenXPS** as the file format from the drop-down list.
8. **PDF Encryption**: Select **On** to use PDF encryption function. Configure the following settings as necessary.
   Compatibility: Select **Acrobat 3.0 and later** or **Acrobat 5.0 and later**.
   Password to Open Document: Select **On** to set the password to open the document, enter the password, and enter the password again for confirmation.
   Password to Edit/Print Document: Select **On** to set the password to edit or print the document, enter the password, and enter the password again for confirmation. Select **Printing Allowed** or **Changes Allowed** from the drop-down list. Select **Enable** to permit to copying of text or images on **Copying of Text/Images/Others**.
9. **PDF/A**: You can configure the setting If PDF Encryption is Disable. Select **Off**, **PDF/A-1a**, **PDF/A-1b**, **PDF/A-2a**, **PDF/A-2b**, **PDF/A-2u** or from the drop-down list.
10. **OCR Text Recognition**: You can convert the scanned document to the text data when you selected **PDF** as the file format.
11. **Primary OCR Language**: You can choose the primary OCR language from the drop-down list.
12. **Auto Image Rotation (OCR)**: Rotates the image direction to read when setting to **On**.
    Note: **OCR Text Recognition**, **Primary OCR Language**, and **Auto Image Rotation (OCR)** can be configured when an optional OCR Expansion kit is activated.
13. **File Separation**: Select **Each Page** or **Off**.
14. **E-mail Subject Additional Info.**: Select the additional information from the drop-down list.Rotates the image direction to read when setting to On.Rotates the image direction to read when setting to On.
15. **FTP Encryption TX**: Select **On** to use the FTP encryption transmission function. If you use this setting, activate TLS on the **Network Security** page under **Security Settings**.
16. **S/MIME**: Select **E-Mail Encrypted TX** to **On** to send the encrypted e-mail using S/MIME. Select **Digital Signature to E-mail** to **On** to send the e-mail using a digital signature.

Print Settings

Configure the print settings for received documents with rules.

1. **Print**: Select **On** to print the received documents with rules.
2. **Copies**: You can configure this setting when Print is set to **On**. Enter the copies of documents to print.

Storing in FAX Box Settings

Configure the storing settings to the fax box.

1. **Storing in FAX Box**: Select **On** to store the received documents with rules to the fax box.
2. **FAX Box**: You can configure this setting when **Storing in FAX Box** is set to **On**. Click **Box List** button to open the **FAX Boxes** page and select the fax box.

3. Click **Submit** button.

Edit Property of the Rule

1. Click the Rule No. or Rule Name. The **Property** page opens.
2. Edit the settings of the rule as necessary.
3. Click **Submit** button.

Edit Other Property of the Rule

1. Click **Settings** on the **Rule for Specific RX** page. The **Other - Property** page opens.
2. Edit the settings of the rule as necessary.
3. Click **Submit** button.

Delete Rule

1. Click the checkbox o the left of the Rule No. and click **Delete** icon.

   Click **Check All** icon to select all the rules and click **None** icon to deselect all the rules.
2. A confirmation message appears. Click **OK**.

Change Priority of the Rule

1. Click the checkbox on the left of the Rule No. and select the rule.
2. Click **Raise Priority** or **Lower Priority** button.

Operation Panel

This section explains how to customize the operation panel.

Customize Status Display

1. Click **Operation Panel** under **Function Settings** on the navigation menu. The **Function Settings : Operation Panel** page opens.
2. This section includes the following items for configuration.

   Printing Jobs

   In **Column 1** and **Column 2**, enter the job name, user name, color/black & white, or printed pages, respectively.

   Sending Jobs

   In **Column 1** and **Column 2**, enter the destination, job name, user name, original pages or color/black & white, respectively.

   Stored jobs

   In **Column 1** and **Column 2**, enter the job name, user name, original pages or color/black & white, respectively.
3. Click **Submit** button.

Function Key Settings

1. Click **Operation Panel** under **Function Settings** on the navigation menu. The **Function Settings : Operation Panel** page opens.
2. This section includes the following items for configuration.

Function Key 1

The copy function is assigned as a default setting. You can register the other function on this key.

Function Key 2

The send function is assigned as a default setting. You can register the other function on this key.

Function Key 3

The fax function (option) is assigned as a default setting. You can register the other function on this key.
Note: Some machine products appears **Copy Function**, **Send Function**, and **FAX Function** respectively as a default setting instead of **Function Key 1** (to **3**). You can enable or disable the each key on the machine.

Copy Function

You can enable or disable the **Copy** key on the machine.

Sending Function

You can enable or disable the **Send** key on the machine.

FAX Function

You can enable or disable the **Fax** key on the machine.

3. Click **Submit** button.

Home

1. Click **Operation Panel** under **Function Setting**s on the navigation menu. The **Function Settings : Operation Panel** page opens.
2. This section includes the following items for configuration.

Customize Desktop

Click **Add function**, **Add Program**, then **Add Application** button, and add an item. Click **Submit** button to finalize settings. Click **Delete** icon to delete the items that are not needed. **Up** and **Down** button allow to interchange the items in order.

Customize Taskbar

Specifies the items to show in the task bar. Activate and deactivate each of **Status/Job Cancel**, **Device Information**, **Language**, **Paper Settings**, **Wi-Fi Direct**, **Help**, **Incoming FAX Log**, **Outgoing FAX Log**, **System Menu**, **Counter**, **Accessibility Screen**, **Numeric Keyboard**, and **Favorite**.
Note: **Incoming FAX Log** and **Outgoing FAX Log** appear when an optional FAX system is attached to the machine.

Background

Allows you to change the background image of the Home screen. Select an image from the **Picture 1** to **Picture 8** on the drop-down list.

3. Click **Submit** button.

Quick Setup Registration

1. Click **Operation Panel** under **Function Setting**s on the navigation menu. The **Function Settings : Operation Panel** page opens.
2. This section includes the following items for configuration. By default, each function is assigned with its standard items.

Copy

Each of **Key 1** to **Key 6** is assigned with one of the copying functions. Select an item from the drop-down list.

Send

Each of **Key 1** to **Key 6** is assigned with one of the sending functions. Select an item from the drop-down list.

Fax

Each of **Key 1** to **Key 6** is assigned with one of the fax functions. Select an item from the drop-down list.

Store Document in Box

Each of **Key 1** to **Key 6** is assigned with one of the Store Document in Box functions. Select an item from the drop-down list.

Print Document in Box

Each of **Key 1** to **Key 6** is assigned with one of the Print Document in Box functions.

Send Document in Box

Each of **Key 1** to **Key 6** is assigned with one of the Send Document in Box functions. Select an item from the drop-down list.

3. Click **Submit** button.

8 Network Settings

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

If needed, make the following settings: See below for detailed information.

- General
- TCP/IP
- Protocols

General

This section includes basic settings for networking.

1. Click **General** under **Network Settings** on the navigation menu. The **Network Settings : General** page opens.
2. Select **Wired Network**, **Optional Network** or **Wi-Fi** from the **Primary Network (Client)** drop-down list
3. The current communication status is shown in **Host Name**. Configure the host name on the **System Settings** page of **Device Settings**.
4. The host name is shown in NetBIOS Name. You can modify the name as necessary.
5. Select **Auto**, **10BASE-Half**, **10BASE-Full**, **100BASE-Half**, **100BASE-Full** and **1000BASE-T** from the **LAN Interface** drop-down list depending on your network environment.
6. The current status is shown in **Client Certificate**. To make advanced settings, click **Settings** button. Select the appropriate certificate on the **Certificate Settings** page that will open. When you click **Certificates**, its content is displayed.

   Click **Submit** button.

   Configure the device certificate on the **Certificates** page.
7. Click **Submit** button.

TCP/IP

This section includes advanced settings for the TCP/IP protocol.

* If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

General Settings (Wired Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. Select **On** to use TCP/IP on the wired network.

3. Click **Submit** button.

General Settings (Wireless Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. Select **On** to use TCP/IP on the wireless network.
3. Click **Submit** button.

General Settings (Common)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. When an IP address that was mapped by the DNS server has been changed, Dynamic DNS automatically remaps the host name to the IP address. To activate the Dynamic DNS Settings, set **Dynamic DNS** to **On**. In addition, specifies the timeout in seconds after which a search on the DNS server expires.
3. Click **Submit** button.

Proxy settings

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. To configure the proxy, set **Proxy** to **On**, and specify the following items as necessary.

Automatically Detect

Select **On** when you detect the proxy server automatically.

Use Automatic Configuration Script

Select **On** and enter the address when you use the automatic configuration script.

Proxy Server (HTTP)

Enter the host name or IP address for the proxy server (HTTP). If you use the host name, you must first specify the DNS server information.

Port Number

Enter the port number for the proxy server (HTTP).

Use the Same Proxy Server for All Protocols

Select **On** when you use the same proxy server for all protocols.

Proxy Server (HTTPS)

Enter the host name or IP address for the proxy server (HTTPS). If you use the host name, you must first specify the DNS server information.

Port Number

Enter the port number for the proxy server (HTTPS).

Do Not Use Proxy for Following Domains

Enter the domain address which do not use the proxy. Use a comma (,) between multiple addresses. Do not use a a semicolon (;) and asterisk (*).

3. Click **Submit** button.

IPv4 settings (Wired Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

DHCP/BOOTP

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

Auto-IP

When the Auto-IP is set to **On**, the IP address from **169.254.0.1** through **169.254.255.254** will usually be generated by itself. But if the IP address using DHCP server or Manual settings has been decided and becomes a candidate as the result of configuration, the Auto-IP address isn't generated and decided even when the Auto-IP is set to **On**.
If the IP address has already been entered in **IP Address** using Manual settings, delete the address.
To enable the settings, restart network. Automatically-generated IP address appears on **Configuration** page under **Device Information** on navigation menu.

IP Address

If **DHCP/BOOTP** is set to **Off**, then a static IPv4 address can be entered in this field as part of the system network settings. When **DHCP/BOOTP** is set to **On**, 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. When **DHCP/BOOTP** is turned **On**, a dynamic IPv4 address is assigned to the device, and the field is grayed out.

Domain Name

Specifies the domain name of the domain to which the machine belongs. It should not contain the host printer name, for example, "abcde.com". abcde.com. When **DHCP/BOOTP** is turned **On**, a dynamic IPv4 address is assigned to the device, and the field is grayed out.

DNS Server (Primary, Secondary)

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

DNS Search Suffix (Primary, Secondary)

Specifies the primary and secondary DNS (Domain Name System) search suffix. When **DHCP/BOOTP** is turned **On**, you can select **DNS Search Suffix (Primary)** or **Use following DNS Search Suffix**. When **DHCP/BOOTP** is turned **On** and **Use following DNS Search Suffix** is selected, you can enter static DNS search suffix in the Primary and Secondary fields provided.

DNS over TLS

DNS over TLS is a protocol developed for DNS name resolution using the Transport Layer Security (TLS) protocol. Select **Auto** from the drop-down list to automatically configure DNS over TLS. Select **On** to communicate using DNS over TLS. Select **Off** to communicate without using DNS over TLS.

Certificate Auto Verification

Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type

Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

Hash

Select a Hash algorithm of either SHA1 or SHA2(256/384). You can use more than one algorithm at a time.

WINS Servers (Primary, Secondary)

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

3. Click **Submit** button.

IPv4 settings (Wireless Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

DHCP/BOOTP

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

Auto-IP

When the Auto-IP is set to **On**, the IP address from **169.254.0.1** through **169.254.255.254** will usually be generated by itself. But if the IP address using DHCP server or Manual settings has been decided and becomes a candidate as the result of configuration, the Auto-IP address isn't generated and decided even when the Auto-IP is set to **On**.

If the IP address has already been entered in **IP Address** using Manual settings, delete the address.
To enable the settings, restart network. Automatically-generated IP address appears on **Configuration** page under **Device Information** on navigation menu.

IP Address

If **DHCP/BOOTP** is set to **Off**, then a static IPv4 address can be entered in this field as part of the system network settings. When **DHCP/BOOTP** is set to **On**, 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. When **DHCP/BOOTP** is turned **On**, a dynamic IPv4 address is assigned to the device, and the field is grayed out.

Domain Name

Specifies the domain name of the domain to which the machine belongs. It should not contain the host printer name, for example, "abcde.com". abcde.com. When **DHCP/BOOTP** is turned **On**, a dynamic IPv4 address is assigned to the device, and the field is grayed out.

DNS Server (Primary, Secondary)

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

DNS Search Suffix (Primary, Secondary)

Specifies the primary and secondary DNS (Domain Name System) search suffix. When **DHCP/BOOTP** is turned **On**, you can select **DNS Search Suffix (Primary)** or **Use following DNS Search Suffix**. When **DHCP/BOOTP** is turned **On** and **Use following DNS Search Suffix** is selected, you can enter static DNS search suffix in the Primary and Secondary fields provided.

DNS over TLS

Select **Auto** from the drop-down list to automatically configure DNS over TLS. Select **On** to communicate using DNS over TLS. Select **Off** to communicate without using DNS over TLS.

Certificate Auto Verification

Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type

Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

Hash

Select a Hash algorithm of either SHA1 or SHA2(256/384). You can use more than one algorithm at a time.

WINS Servers (Primary, Secondary)

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

3. Click **Submit** button.

IPv4 settings (Common)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

Default Gateway

Specifies the IP address of the default gateway. When **DHCP/BOOTP** is turned **On**, a dynamic IPv4 address is assigned to the device, and the field is grayed out.

Host Name

Specifies how to get a host name. When you want to get a host name from the DHCP server, select **Use Host Name from DHCP**. When you want to get a host name using device setting, select **Use Host Name from Device Setting**.

3. Click **Submit** button.

IPv6 Settings (Wired Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

IPv6

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

IP Address

TA static IPv6 address can be entered in this field for the device as part of the system network settings. Assigns an IPv6 address to the machine network component. The format of the IPv6 address is a sequence of numbers (128 bit in total) 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)

When the RA(Stateless) is set to **On** and the network infra-structure provides the IPv6 address prefix in the Router Advertise information, the IPv6 stateless address will be generated on the machine.

DHCPv6 (Stateful)

When the DHCPv6(Stateful) is set to **On** and the network infra-structure provides the “Managed address configuration”, the IPv6 stateful address (128-bit length) will be assigned to the machine by DHCPv6 server.

Domain Name

Specify the domain name of the domain to which the machine belongs.
Note: This setting is enabled when DHCPv6 (Stateful) is set to Off.

DNS Server (Primary, Secondary)

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

DNS Search Suffix (Primary, Secondary)

Specifies the primary and secondary DNS (Domain Name System) search suffix. When **DHCP/BOOTP** is turned **On**, you can select **DNS Search Suffix (Primary)** or **Use following DNS Search Suffix**. When **DHCP/BOOTP** is turned **On** and **Use following DNS Search Suffix** is selected, you can enter static DNS search suffix in the Primary and Secondary fields provided.

DNS over TLS

Select **Auto** from the drop-down list to automatically configure DNS over TLS. Select **On** to communicate using DNS over TLS. Select **Off** to communicate without using DNS over TLS.

Certificate Auto Verification

Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type

Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

Hash

Select a Hash algorithm of either SHA1 or SHA2(256/384). You can use more than one algorithm at a time.

3. Click **Submit** button.

IPv6 Settings (Wireless Network)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.

2. This section includes the following items for configuration.

IPv6

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

IP Address

TA static IPv6 address can be entered in this field for the device as part of the system network settings. Assigns an IPv6 address to the machine network component. The format of the IPv6 address is a sequence of numbers (128 bit in total) 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)

When the RA(Stateless) is set to **On** and the network infra-structure provides the IPv6 address prefix in the Router Advertise information, the IPv6 stateless address will be generated on the machine.

DHCPv6 (Stateful)

When the DHCPv6(Stateful) is set to **On** and the network infra-structure provides the "Managed address configuration", the IPv6 stateful address (128-bit length) will be assigned to the machine by DHCPv6 server.

Domain Name

Specifies the domain name of the domain to which the machine belongs. You can enter the domain name when **DHCPv6 (Stateful)** is turned **Off**.

DNS Server (Primary, Secondary)

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

DNS Search Suffix (Primary, Secondary)

Specifies the primary and secondary DNS (Domain Name System) search suffix. When **DHCPv6 (Stateful)** is turned **On**, you can select **DNS Search Suffix (Primary)** or **Use following DNS Search Suffix**. When **DHCP/BOOTP** is turned **On** and **Use following DNS Search Suffix** is selected, you can enter static DNS search suffix in the Primary and Secondary fields provided.

DNS over TLS

Select **Auto** from the drop-down list to automatically configure DNS over TLS. Select **On** to communicate using DNS over TLS. Select **Off** to communicate without using DNS over TLS.

Certificate Auto Verification

Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type

Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

Hash

Select a Hash algorithm of either SHA1 or SHA2(256/384). You can use more than one algorithm at a time.

3. Click **Submit** button.

IPv6 Settings (Common)

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

Default Gateway

Specifies the IPv6 address of the default gateway.

3. Click **Submit** button.

Bonjour Settings

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. This section includes the following items for configuration.

Bonjour

Select **On** or **Off**, and then select **Wired Network**, **Wi-Fi** or **Wi-Fi Direct** as **Available Network**.

Bonjour Name

When **Bonjour** is turned **On**, **Bonjour Name** is shown. You can modify the name as necessary.

3. Click **Submit** button.

IP Filter (IPv4)

This page allows you to configure IP filters. IP filters restrict access to the machine 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.

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.

2. Set **IP Filters (IPv4)** to **On**.
3. Select **Allowed** or **Denied** as **Filter Type**.
4. Select **On** or **Off** of **Always Allow ICMP**.

   When **Always Allow ICMP** is set to **On**, ICMP function takes precedence even if **IP Filter (IPv4)** is set to **On**. On the other hand, when setting to **Off**, the IP filter settings are applied as they are.
5. Click **Settings** button. The **IP Filters (IPv4)** page opens.This section includes the following items for configuration.

   Network Interface

   Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for IP Filter (IPv4).

   IP Address (IPv4)

   Specifies the IP address or network address to be permitted. For example, if you want to allow access to 192.168.100.XX as IP addresses, including 192.168.100.88, specify 192.168.100.0.

   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. An example of the data format for the .CSV file is: To permit 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 be left blank.
   To allow access to a single IP address, enter the IPv4 address, and "255.255.255.255" for the subnet mask.
   If you want to allow access to 192.168.100.XX as IP addresses, including 192.168.100.88, enter "255.255.255.0" for the subnet mask.

   Protocols

   Specifies the protocol by which an access is granted. You can specify multiple protocols.

   Note: ThinPrint appears only when an optional ThinPrint is activated.
6. Click **Submit** button.

IP Filter (IPv6)

This page allows you to configure IP filters. IP filters restrict access to the machine 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.

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.
2. Set **IP Filters (IPv6)** to **On**.
3. Select **Allowed** or **Denied** as **Filter Type**.

4. Select **On** or **Off** of **Always Allow ICMP**.

   When **Always Allow ICMP** is set to **On**, ICMP function takes precedence even if **IP Filter (IPv6)** is set to **On**. On the other hand, when setting to **Off**, the IP filter settings are applied as they are.

5. Click **Settings** button. The **IP Filters (IPv6)** page opens.This section includes the following items for configuration.

   Network Interface

   Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for IP Filter (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. IPv6 address filtering: 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**. Note: When the IPv6 address is ":: 1", "128" cannot be set for the Prefix length.

   Protocols

   Specifies the protocol by which an access is granted. You can specify multiple protocols.

   Note: ThinPrint appears only when an optional ThinPrint is activated.

6. Click **Submit** button.

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.

Logical Printer is used with one of the following print protocols: FTP, LPR, IPP, IPPS, SMB and RAW. If no port is specified for printing, the default port used will be Logical Printer 1 (LP1), port 9100.

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.

2. Click **Settings** button. The **Logical Printers** page opens.This section includes the following items for configuration

   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 is **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, PJL and other such commands, it is necessary to set Bi-directional Printing is **On**.

Start 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 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.

3. Click **Submit** button.

IPSec Settings

1. Click **TCP/IP** under **Network Settings** on the navigation menu. The **Network Settings : TCP/IP** page opens.

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

Specifies whether or not to enable the IPSec protocol. Select **On** to use the IPv6 protocol. Select **Off** when encryption is not used.

2. This section includes the following items for configuration.

Expiration Verification

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

FIPS140-2 Compliant

When selecting **On**, you can communicate using encrypted module which is compliant with FIPS 140-2.
Note: When activating optional Data Security Kit 10, you can communicate using encrypted module which is same level as FIPS 140-2.

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. Select Deny to allow communication only with the hosts and networks permitted by the rules. **Allowed** means normal traffic (not defined by the IPSec rules) will be allowed to reach the device. **Denied** means only IPSec traffic (as defined by the IPSec rules) will be allowed to reach the device and all other traffic (not defined by the IPSec rules) will be denied to reach the device.

Root Certificate

Displays whether the certificate is active. **Root Certificate 1 Subject** through **Root Certificate 5 Subject** are displayed. Configure the device certificate on the **Certificates** page.

IPSec Rules

Allows to validate the rule used for communication using the IPSec protocol. **Rule 1** through **Rule 10** are displayed. To activate this item, click **Settings** button and configure the following on the IPSec Rule Settings page.

1. **Policy**
   Rule: Select whether the rules for IPSec communication are used or not.
   Key Management Type: Select a type of the key used for the rule from **IKEv1**, **IKEv2**, and **Manual**.
   Encapsulation Mode: **Transport** encapsulates an encrypted data and transmits along with an IP header. This is the simplest method when both the transmitting host and receiving host have the IPSec protocol supported. **Tunnel** uses a gateway provided in the network. The gateway receives the IP packets sent by the transmitting host, encrypt the entire IP packet which is then encapsulated by IPSec, then transmits along with a new IP header.
   Select whether the rules for IPSec communication are used or not.
2. **IP address**
   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 machine 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 machine.
   Subnet Mask: When **IPv4** is selected for **IP Version**, this specifies the subnet mask of the hosts or network with which the machine is connecting via IPSec. If this field is blank, the specified addresses are considered to be host addresses.
   IP Address (IPv6): Specifies the IPv6 addresses of the hosts or network with which the machine 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 machine.
   Prefix Length: When **IPv6** is selected for **IP Version**, this specifies the prefix length of the hosts or network with which the machine is connecting via IPSec. If this field is blank, the specified addresses are considered to be host addresses.
   Remote Peer Address: If **Tunnel** is selected in **Encapsulation Mode**, assign an IP address that is remotely controlled.
3. **Authentication**: Configures the local side authentication when **IKEv1** is selected as **Key Management Type**. To set a character string as the shared key and use it for communication, select **Pre-shared Key** and enter the string of the pre-shared key in the text box. To use the CA-issued Device Certification or Root Certificate, select the **Certificates**. When **Certificates** is selected, the availability of the device certificate is shown. To make advanced settings, click **Settings** button and select a certificate. Configure the device certificate on the **Certificates** page of **Security** Settings.
   Configures the local side and remote side authentication when **IKEv2** is selected as **Key Management Type**. Configure **Authentication Type**, **Local ID Type**, **Local ID**, **Device Certificate** and **Pre-shared Key** on **Local Side**, and **Authentication Type**, **Remote ID Type**, **Remote ID** and **Pre-shared Key** on **Remote Side**.
4. **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: Configures this item when **IKEv1** is selected as **Key Management Type**. **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 nar-

rows the extent of the parameter negotiations. When **Aggressive Mode** is selected and **Pre-shared Key** 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.

5. **Data Protection (IKE phase2)**
In IKE phase2, IPSec SAs such as ESP or AH 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. When you select **AH** as Protocols, you cannot use the AES-GCM-128, 192, or 256. Select the hash algorithm below.
Hash: Selects the hash algorithm. When you select AES-GCM-128, 192, or 256 on Encryption, you have to select the AES-GCM-128, 192, or 256 or the AES-GMAC-128, 192, or 256 corresponding to the same bit.
Encryption: Selects the encryption algorithm. (When **ESP** is selected under **Protocol**.) When you select the AES-GCM-128, 192, or 256 on Hash, you have to select the AES-GCM-128, 192, or 256 corresponding to the same bit. When you select the AES-GMAC-128, 192, or 256 on Hash, you have to select the AES-GCM-128, 192, or 256 corresponding to the same bit. If you do not select any algorithm, the machine authenticates without encryption.
PFS: When **PFS** is turned **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-Hekkman Group: When **PFS** is turned **On** (enabled), select the Diffie-Hekkman Group to use.
Lifetime Measurement: Select **Time** or **Time & Data Size**.
Lifetime (Time): Configure the lifetime of IPSec SA in seconds.
Lifetime (Data Size): Configure this item when is **Time & Data Size** selected as **Lifetime Measurement**. Configure the lifetime (data size) of IPSec SA in kilobytes.
Extended Sequence Number: Determines whether a sequence number is 64-bit extended by IPSec. To execute, select **On**.

6. **Manual**: If **Key Management Type** is set to **Manual**, configure:
Protocol, **Hash**, **Encryption**, **SPI Format**, **SPI for Inbound**, **SPI for Outbound**, **Key Format**, **Authentication Key for Inbound**, **Authentication Key for Outbound**, **Encryption Key for Inbound**, **Encryption Key for Outbound**.

Click **Submit** button to finalize settings.

3. Click **Submit** button.

Protocol

This section includes advanced settings for various protocols used as the communication procedures and communication protocols.

*: If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

1. Click **Protocol** under **Network Settings** on the navigation menu. The **Network Settings : Protocol** page opens.

2. This section includes the following items for configuration.

Print Protocols

Configure the protocols used for printing. This section includes the following items for configuration:

1. **SMB Server Protocol**: SMB Server Protocol allows you to share printers and files over a network. When setting to **On**, you can also set SMBv1.
   Workgroup: A name for grouping multiple computers in order to use functions such as file sharing. You can also change it.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for SMB server protocol.
   SMBv1: Set to **On** to share files and printers using the SMBv1 protocol.
2. **LPD**: To enables the LDAP protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for LPD protocol.
3. **FTP Server (Reception)**: FTP is a communications protocol for transmitting files over a Network. To enables the FTP protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for FTP protocol.
4. **IPP**: IPP is a protocol which performs transmission and reception of printing data and configuration of machines through TCP/IP networks including the Internet. To enables the IPP protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for IPP protocol.
   Port Number: Enter the port number. Typically, this should be **631**.(e.g. http://(IP address):631/printers/lp1)
5. **IPP over TLS**: A certificate can be added for communication using the IPP protocol. To enable the IPP protocol, turn this item **On**. To enable this protocol, select **On** on **TLS** of the **Security Settings : Network Security** page.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for IPP over TLS.
   Port Number: Enter the port number. Typically, this should be **443**. The status of **IPP over TLS Certificate** is shown. To make advanced settings, click **Settings** button and select a certificate. Click **Submit** button to finalize settings.
   Configure the device certificate on the **Security Settings : Certificates** page. This Certificate can be used in common with IPP over TLS and HTTPS.
6. **IPP Authentication**: When selecting **On**, the device performs user authentication at printing to avoid unauthorized use. To enable this item, select **Local Authentication** or **Network Authentication** as Authentication on the **Management Settings : Authentication** page and restart the device. Turn this item **On** and enter **Default User Name**.
7. **Raw**: RAW employs another method of printing over the network like LPR. Typically, RAW uses port 9100 to remotely administer the printer via using SNMP or MIB. To enables the RAW protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for Raw protocol.
8. **ThinPrint**: Configure this setting whether to use the ThinPrint. Turn this item **On**
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for ThinPrint.
   Port Number: When you set **ThinPrint** to **On**, enter the port number. Typically, this should be **4000**. To use **ThinPrint over TLS**, select **On** on **TLS** of the **Security Settings : Network Security** page. Click **Settings** button to select the Device Certificate. Click **Submit** button to determine the setting.
   Note: ThinPrint appears only when an optional ThinPrint is activated.

9. **WSD Print**: WSD is a new networking protocol provided with Windows Vista for discovery of the machines and data exchange for printing. To enable the WSD protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for WSD protocol.
10. **POP3 (E-mail RX)**: POP3 is a standard protocol for retrieval of E-mail. POP3 is a standard protocol used by local e-mail clients including the machine to retrieve E-mail from a remote server over a TCP/IP connection. To enable the POP3 protocol to retrieve E-mail, turn this item **On**. To configure the POP3 protocol, go to the **Function Settings : E-mail** page. To use E-mail printing, activate remote printing on the **Function Settings : Printer** page.
    Select a method for **POP3 Security (User 1** (to **3**)**)** from **STARTTLS**, or **TLS**, or **Off** on the drop-down list. To enable this protocol, activate TLS on the **Security Settings : Network Security** page.

Send Protocols

Configure the protocols used for sending E-mail. This section includes the following items for configuration:

1. **SMTP (E-mail TX)**: SMTP is an Internet standard for E-mail transmission across Internet Protocol (IP) networks. To enable E-mail transmission using SMTP, turn this item **On**. To configure the detailed settings, go to the **Function Settings : E-mail** page.
   Select a method for **SMTP Security (User #)** from **Off**, **STARTTLS**, and **TLS** on the drop-down list. To enable this protocol, activate TLS on the **Security Settings: Network Security** page.
   Certificate Auto Verification: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
   Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
   Hash: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
   S/MIME: Select **On** to send the encrypted e-mail using S/MIME.
2. **SMTP (FAX Server)**: To enable E-mail transmission using fax server, turn this item **On**. To configure the detailed settings, go to the **Function Settings : E-mail** page.
   Select a method for **SMTP Security (User #)** from **Off**, **STARTTLS**, and **TLS** on the drop-down list. To enable this protocol, activate TLS on the **Security Settings : Network Security** page.
3. **FTP Client (Transmission)**: FTP (File Transfer Protocol) is a standard network protocol used to transfer files from one host or to another host over a TCP-based network, such as the Internet. To enables the FTP protocol, turn this item **On**. **Port Number**: Enter the port number. Typically, this should be **21**. By selecting **On** on **FTP Encryption TX**, the file transmission is implemented with the algorithms configured in the following. To enable this protocol, activate TLS on the **Security Settings : Network Security** page.
   Certificate Auto Verification: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
   Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
   Hash: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
4. **SMB**: SMB is a network protocol applied to shared access to files, printers, serial ports, etc.. To enables the SMB protocol, turn this item **On**.
   Port Number: Enter the port number. Typically, this should be **445**.
   SMBv1: Select **On** to enable the SMBv1 protocol.

Use Temporary File Name: To replace with the file name you specified after SMB transmission, turn this item **On**.

5. **i-FAX (SMTP and POP3)**: To enable i-FAX, turn this item **On**. To configure i-FAX, go to the **Function Settings : FAX/i-FAX** page.
6. **WSD Scan**: WSD is a new networking protocol provided with Windows Vista for discovery of the machines and data exchange for printing. To enable the WSD protocol, turn this item **On**.
7. **eSCL**: eSCL is a network protocol used for remote scanning from Mac OS X computer. To enables the eSCL protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for eSCL protocol.
8. **eSCL over TLS**: A certificate can be added for communication using the eSCL protocol. To enable the eSCL over TLS, turn this item **On**. To enable this protocol, select **On** on **TLS** of the **Security Settings : Network Security** page.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for eSCL over TLS.
   eSCL over TLS Certificate: The status of **eSCL over TLS Certificate** is shown. To make advanced settings, click **Settings** button and select a certificate. Click **Submit** button to finalize settings.
   Configure the device certificate on the **Security Settings : Certificates** page. This Certificate can be used in common with ThinPrint, HTTPS/IPP over TLS, Enhanced WSD over TLS, eSCL over TLS, and so on.

Other Protocols

This section allows to configure other network protocols. This section includes the following items for configuration:

1. **SNMPv1/v2c**: The SNMP protocol provides and transfers management information within the network environment. Should an error occur such as Add Paper, the machine automatically generates a trap, an error message sent to up to two predetermined trap recipients. To enable the SNMPv1/v2 protocol, turn this item **On**. To configure the SNMPv1/v2 protocol, go to the **Management Settings : SNMP Settings** page .
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for SNMP protocol.
2. **SNMPv3**: The SNMP protocol provides and transfers management information within the network environment. To enable the SNMPv3 protocol, turn this item **On**. To configure the SNMPv3 protocol, go to the **Management Settings : SNMP Settings** page.
3. **HTTP**: HTTP is the protocol to exchange or transfer hypertext between the World Wide Web and web browsers. To enable the HTTP protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for HTTP protocol.
4. **HTTPS**: HTTPS (Hypertext Transfer Protocol Secure) is a widely-used communications protocol for secure communication over the Internet. It provides bidirectional encryption of communications between a client web browser and a web server. To enable the HTTPS protocol, turn this item **On**. To enable this item, activate TLS on the **Security Settings: Network Security** page. The current status of the certificate is shown in **HTTPS Certificate**. To make advanced settings, click **Settings** button and select a device certificate. Click **Submit** button to finalize settings.
   Configure the device certificate on the **Security Settings: Certificates** page. This Certificate can be used in common with IPP over TLS and HTTPS.
   Configure the HTTP (Client) as follows.
   Certificate Auto Verification: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
   Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to

confirm the revocation of digital certificate.
Hash: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
Remote Services: Set **Use Default Settings** to **On** to use remote services with machine's default settings.
Universal Print: When Use default settings is set to **On**, Universal Print uses the printer's default settings. If you select **Off**, you can configure **Certificate Auto Validation**, **Revocation Check Type**, and **Hash**.
OAuth2 (Exchange online (Reception)): When **Use Default Settings** is set to **On**, you can use the machine's default settings to configure reception authentication via OAuth2 (Exchange online). If you select **Off**, you can set **Certificate Auto Validation**, **Revocation Check Type**, and **Hash**.
OAuth2 (Exchange online (Transmission)): When **Use Default Settings** is set to **On**, you can use the machine's default settings to configure transmission authentication via OAuth2 (Exchange online). If you select **Off**, you can set **Certificate Auto Validation**, **Revocation Check Type**, and **Hash**.
SOAP: Set **Use Default Settings** to **On** to communicate using SOAP protocol with machine's default settings.

5. **Enhanced WSD**: Enhanced WSD is an API to simplify connections to web service enabled devices, such as Printers, Scanners and File Shares. To enable Enhanced WSD, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for Enhanced WSD protocol.
6. **Enhanced WSD over TLS**: Enhanced WSD (TLS) is a communication security protocol that provides encryption, authentication, and anti-tampering integrity over the Internet. To enable Enhanced WSD (TLS), turn this item **On**. To enable this item, activate TLS on the **Security Settings : Network Security** page.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for Enhanced WSD over TLS.
   Enhanced WSD over TLS Certificate: The status of the Enhanced WSD over TLS certificate is shown. To make advanced settings, click **Settings** button and select a device certificate. Click **Submit** button to finalize settings.
   Configure the device certificate on the **Security Settings : Certificates** page.
7. **LDAP**: The machine 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. To enables the LDAP protocol, turn this item **On**. To configure the External Address Book, go to the **Address Book : External Address Book Settings** page. To configure advanced settings, go to **Management Settings : Authentication** page.
   Select a method for **LDAP Security** from **STARTTLS**, **TLS**, and **Off** on either the **External Address Book #** or **Network Authentication** drop-down list. To enable this item, activate TLS on the **Security Settings : Network Security** page.
   Certificate Auto Verification: Select **Validity Period**, **Server Identity**, **Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.
   Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.
   Hash: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
8. **IEEE802.1X**: IEEE802.1X is a security protocol that allows login to the secured networks based on a client certificate. To enable the IEEE802.1X protocol, turn this item **On**.
   To make advanced settings, click **Settings** button. The status of this protocol is shown in **IEEE802.1X Settings** page. This section includes the following items for configuration:

IEEE802.1X
Effective Encryption: Select a method of encryption from **EAP-TLS**, **EAP-TTLS**, **EAP-FAST** and **PEAP(EAP-MS-CHAPv2)** on the drop-down list.
Tunneled Authentication Protocol: This protocol is activated when **EAP-TTLS** has been selected for encryption. Select a method of authentication from **MSCHAPV2**, **MSCHAP**, **CHAP**, and **PAP** on the drop-down list.
Login User Name: Enter the name of the user to access the machine. The IEEE802.1X client certificate of this user must be valid.
Password: This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. Enter the password.
Common Name: This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. Specifies the common name of the server certificate if the server is required to be authenticated.
Match Rule of Common Name: This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. 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.
Expiration Verification: When this option is enabled, the expiration of the server certificate is verified at communicating. If the certificate is expired, communication will fail. When it is disabled, the expiration will not be verified.
IEEE802.1X Client Certificate: The current status is shown in **IEEE802.1X Client Certificate**. To make advanced settings, click **Settings** button and select a device certificate. Click **Submit** button to finalize settings. Configure the device certificate on the **Security Settings: Certificates** page.

Certificate Status
Root Certificate 1 (to **5**), **IEEE802.1X Client Certificate**: The content of the certificate is shown. Make settings for the Root Certificate on the **Security Settings: Certificates** page.

9. **LLTD**: LLTD is a protocol that provides network topology discovery and quality of service diagnostics. To enable the LLTD protocol, turn this item **On**.
   Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for LLTD protocol.
10. **REST**: REST is an architecture for the web application suitable for the multiple software linkage in the distributed network system. To enables the REST protocol, turn this item **On**.
    Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for REST protocol.
    Port Number: Enter the port number. Typically, this should be **9080**.
11. **REST over TLS**: A certificate can be added for communication using the REST protocol. To enable the REST over TLS, turn this item **On**. To enable this protocol, select **On** on **TLS** of the **Network Security Settings** page.
    Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for REST over TLS.
    Port Number: Enter the port number. Typically, this should be **9081**.
    REST over TLS Certificate: The status of **REST over TLS Certificate** is shown. To make advanced settings, click **Settings** button and select a certificate.
12. **VNC (RFB)**: VNC (RFB) is set when starting up a VNC Viewer (E.g. RealVNC), and using the Remote Operation. To enables the VNC (RFB) protocol, turn this item **On**.
    Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for VNC (RFB) protocol.
    Port Number: Enter the port number. Typically, this should be **9062**.
13. **VNC (RFB) over TLS**: VNC (RFB) over TLS is set when starting up a VNC Viewer (E.g. RealVNC), and using the Remote Operation protected by TLS. To enable the

VNC (RFB) over TLS, turn this item **On**. To enable this protocol, select **On** on **TLS** of the **Security Settings : Network Security** page.
Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for REST over TLS.
Port Number: Enter the port number. Typically, this should be **9063**.
VNC (RFB) over TLS Certificate: The status of **VNC (RFB) over TLS Certificate** is shown. To make advanced settings, click **Settings** button and select a certificate. Click **Submit** button to finalize settings.
Configure the device certificate on the **Security Settings : Certificates** page. This Certificate can be used in common with ThinPrint, HTTPS/IPP over TLS, Enhanced WSD over TLS, eSCL over TLS, and so on.

14. **Enhanced VNC (RFB) over TLS**: Enhanced VNC (RFB) over TLS is a communication security protocol that provides encryption, authentication, and anti-tampering integrity over the Internet. This protocol is set when starting up Embedded Web Server, and using the Remote Operation protected by TLS. To enable the Enhanced VNC (RFB) over TLS, turn this item **On**. To enable this protocol, select **On** on **TLS** of the **Security Settings : Network Security** page. The default setting is **On**.
    Available Network: Select **Wired Network**, **Wi-Fi** and **Wi-Fi Direct** as the available network for REST over TLS.
    Port Number: Enter the port number. Typically, this should be **9061**.
    Enhanced VNC (RFB) over TLS Certificate: The status of **VNC (RFB) over TLS Certificate** is shown. To make advanced settings, click **Settings** button and select a certificate. Click **Submit** button to finalize settings.
    Configure the device certificate on the **Security Settings : Certificates** page. This Certificate can be used in common with ThinPrint, HTTPS/IPP over TLS, Enhanced WSD over TLS, eSCL over TLS, and so on.
15. **OSCP/CRL**: You can configure the validity of certificates and specify the available CRL server address. Click **Settings** button to open the **OCSP/CRL Settings** screen.
    a. General
    Revocation Information Cache Period: Enter the revocation information cache period.
    b. OCSP
    Set **Auto Server Selection with AIA Information** to On to select the server automatically using AIA.
    Enter **Number of Available OCSP URL**, **Server Address**, and **Timeout** of server.
    Click **Settings** button on **Proxy**. **Network Settings: TCP/IP** screen appears. Enter the necessary information.
    Enter the user name and password on **Proxy Authentication**.
    Set **NONCE Extension** to **On** to communicate to server using one-time token.
    Set **Validity Check** to **On** to check validity of certificates.
    Set **Signing Check** to **On** to check signing of certificates.
    Enter the retry period and retry count respectively.
    Select **Reject** or **Permit** on **Unknown Certificate**.
    c. CRL
    Set **Auto Server Selection with CDP** to On to select the server automatically using CDP.
    Enter **Number of Available CRL URL**, **Server Address**, and **Timeout** of server.
    Click **Settings** button on **Proxy**. **Network Settings: TCP/IP** screen appears. Enter the necessary information.
    Enter the user name and password on **Proxy Authentication**. When you use the LDAP server, enter the user name and password for LDAP server.
    Enter the retry period and retry count respectively.
16. **Syslog**: When setting to **On**, you can communicate between client and SIEM server using Syslog. By linking with the SIEM server, the logs (security logs) generated by security devices and network devices are collected and centrally managed by the SIEM server. The server analyzes the contents of multiple logs

across the log and automatically detects correlated activities, and notifies clients of external attacks and threats based on the analysis results.
Configure the detailed settings on **Management Settings: History Settings** page.
Select **UDP** or **TCP** as **Connection Type**.
Syslog Security: Displayed when selecting **TCP** as **Connection Type**. When setting to **On**, you can communicate with security function of Syslog.

3. Click **Submit** button.

Wireless LAN

This section includes advanced settings for the Wi-Fi and Wi-Fi Direct. This setting appears when an optional wireless network interface kit is attached to the machine.

* If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

Wi-Fi Settings

1. Click **Wireless LAN** under **Network Settings** on the navigation menu. The **Network Settings: Wireless LAN** page opens.
2. This section includes the following items for configuration.

Wi-Fi

Select **On** when you use the wireless LAN communication using Wi-Fi.

Network Name (SSID)

Enter the SSID (Service Set Identifier) of wireless LAN connects to the device.

Network Authentication

Select the network authentication method from the drop-down list.

Encryption

Configure the encryption method. If you select **Open** in **Network Authentication**, select **Disable** or **WEP**.
If you select **WPA2/WPA-PSK** or **WPA2/WPA-EAP** in **Network Authentication**, select **AES** or **Auto**.
If you select **WPA2-PSK** or **WPA2-EAP** in **Network Authentication**, **AES** is applied as **Encryption**.

WEP Key Index

Enter the WEP key index when you select **Open** in **Network Authentication**, and **WEP** in **Encryption**.

WEP Key

Enter the WEP key index when you select **Open** in **Network Authentication**, and **WEP** in **Encryption**.

Pre-shared Key

Enter the pre-shared key index when you select **WPA2/WPA-PSK** or **WPA2-PSK** in **Network Authentication**.

3. Click **Submit** button.

IEEE802.1X

This setting appears when **WPA2/WPA-EAP** or **WPA2-EAP** is selected in **Network Authentication**.

1. Click **Wireless LAN** under **Network Settings** on the navigation menu. The **Network Settings: Wireless LAN** page opens.
2. This section includes the following items for configuration.

Effective Encryption

Select a method of encryption from **EAP-TLS**, **EAP-TTLS**, **EAP-FAST** and **PEAP(EAP-MS-CHAPv2)** on the drop-down list.

Tunneled Authentication Protocol

This protocol is activated when **EAP-TTLS** has been selected for encryption. Select a method of authentication from **MSCHAPV2**, **MSCHAP**, **CHAP**, and **PAP** on the drop-down list.

Login User Name

Enter the name of the user to access the machine. The IEEE802.1X client certificate of this user must be valid.

Password

This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. Enter the password.

Common Name

This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. Specifies the common name of the server certificate if the server is required to be authenticated.

Match Rule of Common Name

This protocol is activated when **EAP-TTLS**, **EAP-FAST**, or **PEAP(EAP-MS-CHAPv2)** has been selected for encryption. 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.

Expiration Verification

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

IEEE802.1X Client Certificate

The current status is shown in IEEE802.1X Client Certificate. To make advanced settings, click **Settings** button and select a device certificate. Click **Submit** button to finalize settings. Configure the device certificate on the **Certificates** page under **Security** Settings.

3. Click **Submit** button.

Certificate Status

1. Click **Wireless LAN** under **Network Settings** on the navigation menu. The **Network Settings: Wireless LAN** page opens.
2. This section includes the following items for configuration.

Root Certificate 1 (to 5), IEEE802.1X Client Certificate

The content of the certificate is shown. Make settings for the **Root Certificate** on the **Certificates** page under **Security Settings**.

Wi-Fi Direct Settings

1. Click **Wireless LAN** under **Network Settings** on the navigation menu. The **Network Settings: Wireless LAN** page opens.
2. This section includes the following items for configuration.

Wi-Fi Direct

Select **On** when you use the wireless LAN communication using Wi-Fi Direct.

Frequency Band

Select **2.4GHz** or **5GHz** as the frequency band.

Device Name

Enter the device name (host name).

IP Address

The device's IP address appears.

Persistent Group

Select **On** when you use the persistent group.
Click **Reset** button to reset the password for Wi-Fi Direct connection.
Note: You can confirm the password on the **Configuration** page to click **Configuration** under **Device Information/Remote Operation** on the navigation menu. You can also confirm the password on the control panel of the machine and the network status page.

Password

Select whether to generate the Wi-Fi Direct password automatically or create it manually. When **Manual Creation** is selected, the Persistent Group setting will turn **On**.
Note: The setting will be changed after restarting the device or network.

Auto Disconnect

Select **On** when you want to automatically disconnect the handheld device connected using Wi-Fi Direct. Select the desired **Day**, **Hour** and **Minute** from the drop-down list.

3. Click **Submit** button.

9 Security Settings

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

If needed, make the following settings: See below for detailed information.

- Device Security
- Send Security
- Network Security
- Certificates

Device Security

This section includes settings for device security.

Quick Setup

This page allows you to restrict access from each interface.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Status of Security Settings

The security level configured on **Security Quick Setup** appears.

Security Quick Setup

Click **Settings** button to display the **Quick Setup** screen. Select **Level 1** to **Level 3** from the drop-down list.

Level 1

This is the factory default.

Level 2

The security functions of network are changed.

Level 3

All functions that protect the machine are enabled, and functions that are not protected are disabled.

Note: For the details of security level, refer to the machine's Operation Guide.

Allowlisting

When this function is Set to On, you can prevent unauthorized software execution and software tampering, and maintain the reliability of the system.

Note: Be sure to restart the machine after setting this function to **On**.
Once this function is activated, the start up of this product will be slowered.

To make it easier to understand the contents when a malicious program is detected, we recommend the following settings to **On**:
Device Log History on **Management Settings: History Settings** page (*History Settings* on page 113)
Notify when Malicious Program is Detected on **Management Settings: Notification/Report** page (*Notification/Report Settings* on page 111)

When selecting **Level 3** from **Quick Setup** screen on **Security Settings : Device Security** page, **Device Log History** is set to **On**.

Interface Block

This page allows you to restrict access from each interface.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Network

Access from the network interface cannot be restricted. Access should be restricted depending on the protocol. For more details, see the **Protocol Settings** page under **Network Settings**.

USB Device

To block accesses from the devices connected to the USB port, select **Block**.

USB Host

To block accesses from the USB host devices, select **Block**.

USB Drive

To block accesses from the storages connected to the USB port, select **Block**.

Option Interface 1

To block accesses from the Option 1 interface, select **Block**.

Option Interface 2

To block accesses from the Option 2 interface, select **Block**.

3. Click **Submit** button.

Lock Operation Panel

Restricts access from the operation panel.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. Select the drop-down list, click **On** or **Lock**, **Partial lock 1**, **Partial lock 2**, **Partial lock 3** or **Partial Lock**, **Off** or **Unlock** in the operation remain.

This section includes the following items for configuration.

Lock

Settings related to execution of input and output, jobs and paper are prohibited. To limit partial-use the following **Partial lock 1 (-3)**.

Partial lock 1

Settings related to input/output, such as network settings, system settings, document settings are prohibited. (e.g. the registration/edit of Address book and Document box)

Partial lock 2

Settings related to the run job panel settings, printer settings, in addition to **Partial lock 1** limit will be banned. (e.g. stop key use the job cancel)

Partial lock 3

Settings related to paper, in addition to the limit of **Partial lock 2** is prohibited. (e.g. Cassette Settings, MP Tray Settings)

Unlock

All keys are permitted to use.

3. Click **Submit** button.

Status /Log Settings

Job status, job histories, and FAX communication histories are restricted.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings: Device Security** page opens.
2. This section includes the following items for configuration.

Display Jobs Detail Status

This enables to restrict the progress of job processing in detail. You can select **Hide All** to allow only the administrators who logged in using administrator privilege to see the jobs status. **Show All** allows all administrators and users to see the jobs status. Selecting **My Jobs Only** only allows the user to see the jobs log of his/her own.

Display Jobs Log

This enables to restrict the progress of job processing in detail. 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. Selecting **My Jobs Only** only allows the user to see the jobs log of his/her own.

Display FAX Log

This enables to restrict the history of fax communications. You can select **Hide All** to allow only the administrators who logged in using administrator privilege to see the history of fax communications. **Show All** allows all administrators and users to see the logs of fax communications.

Pause/Resume of All Print jobs

Select **Permit** to pauses or resumes all print jobs including a currently printing job.

Remaining Print Jobs on Logging out

This setting is for print jobs that require security considerations, such as passwords. If you select **Cancel**, any user attempts to log out will be aborted, including any jobs waiting to print.

3. Click **Submit** button.

Edit Restriction

The addition, deletion and edition of address book and one touch key are restricted.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Address Book

This enables to restrict the editorial control of address book. When you select **Off**, all user can edit the address book regardless of user privileges. When you select **Administrator Only**, only the user with an administrator privileges can edit the address book.

One Touch Key

This enables to restrict the editorial control of one touch key. When you select **Off**, all user can edit the one touch key regardless of user privileges. When you select **Administrator Only**, only the user with an administrator privileges can edit the one touch key.

3. Click **Submit** button.

Authentication Security Settings

This section allows to configure the passwords and user accounts for security. These settings can be made when the local authentication is enabled.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Password Policy Settings

Sets the password policy.

1. **Password Policy**: To set the password policy, set this to **On** and configure the following.
2. **Maximum password age**: Turn to **On** and select the valid period in the number of days from the drop-down list. **1** – **180** days
3. **Maximum password length**: Turn to **On** and select the length in the number of characters from the drop-down list. **1** – **64** characters.
4. **Password complexity**: Select the password complexity from **No more than two consecutive identical char**, **At least one uppercase letter (A-Z)**, **At least one lowercase letter (a-z)**, **At least one number (0-9)**, or **At least one symbol**.
5. **Password Policy Violated User List**: Clicking the **User List** button will display a list of users that are in violation of the password policy.

User Account Lockout Settings

You can assign a specific user account that you want to exclude.

1. **Lockout Policy**: To set the password policy, set this to **On** and configure the following.
2. **Number of Retries until Locked**: Select the number of password retries until the account is locked, from the drop-down list (**1** – **10** times).
3. **Lockout Duration**: Select the time period in minutes until the account is excluded, from the drop-down list (**1** – **60** minutes).
4. **Lockout Target**: Select the users that you want to exclude, either **All** or **Remote Login Only**.
5. **Locked out Users List**: Clicking the **User List** button will display a list of users that are excluded.

3. Click **Submit** button.

Unusable Time Setting

This determines the time period during which the machine is restricted for use.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Unusable Time

Set On to use it. When this is **On**, the machine is unusable during the time period from **Start Time** to **End Time**. To use the machine during this period, an unlock code must be entered.

Start Time

Select the time of beginning of unusable time, from the drop-down list.

End Time

Select the time of ending of unusable time, from the drop-down list.

Unlock Code

Define an unlock code that you can use to temporarily deactivate the unusable time. Enter a digit from **0000** to **9999**.

3. Click **Submit** button.

Data Security Settings

Customize the security password so that only the administrator can use the security function.
Note: This setting is displayed when the Data Security Function is activated.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. Click **Settings** button to open the Password page. Enter the password and click **OK** button to display **Data Security Settings** screen.
Note: The default settings is 000000.
3. This section includes the following items for configuration.

Data Overwrite Method

Select the data overwrite method.
1-time Overwrite Method: The 1-time overwrite method overwrites unneeded data areas (in the case of overwriting) or all the data areas (in the case of system initialization) with specific numbers to prevent data restoration.
3-time Overwrite Method (A): The 3-time overwrite method complies with DoD 5220.22-M, and overwrites unneeded data areas (in the case of overwriting) or all the data areas (in the case of system initialization) with specific numbers, their complements, and random numbers to prevent data restoration. Data restoration is not possible even through a sophisticated restoration technique.

Security Password

Enter a new security password 6 to 16 alphanumeric characters and symbols if you change the default password.
Note: Avoid any easy-to-guess numbers for the security password (e.g. 11111111 or 12345678).

Confirm Password

Enter the password for confirmation again.

4. Click **Submit** button.

Data Sanitization

Return the following information registered in the machine to the factory defaults. The information differs according to the type of machine.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Reserve a Sanitization Time

Erase all the address information and image data stored in the machine on the specified schedule. When selecting **On**, specify the schedule to execute data sanitization.

Device Use After Sanitization

Restrict use of this machine after data sanitization. Select **Prohibit** or **Permit**. When selecting **Prohibit**, you cannot use the machine after data sanitization.

Data Overwrite Method

Select the data overwrite method.
3-time Overwrite Method (A): The 3-time overwrite method complies with DoD 5220.22-M, and overwrites unneeded data areas (in the case of overwriting) or all the data areas (in the case of system initialization) with specific numbers, their complements, and random numbers to prevent data restoration. Data restoration is not possible even through a sophisticated restoration technique.
7-time Overwrite Method (A): The 7-time overwrite method complies with DoD 5220.22-M, and overwrites unneeded data areas (in the case of overwriting) with specific numbers, their complements, and random numbers to prevent data restoration. Data restoration is not possible even through a sophisticated restoration technique.
7-time Overwrite Method (B): The 7-time overwrite method complies with BSI/

VSITR, and overwrites unneeded data areas (in the case of overwriting) with specific numbers, their complements, and random numbers to prevent data restoration. Data restoration is not possible even through a sophisticated restoration technique.

3. Click **Submit** button.

Firmware Update

Configure the settings to properly update the firmware.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Administrator Authentication on Firmware Update

When selecting **On**, the machine will request approval from the administrator when updating firmware.

FW Update Tool

When selecting **On**, firmware will be updated using the Firmware Update Tool.

3. Click **Submit** button.

Data Import/Export

Configure the settings to import and export data properly.

1. Click **Device Security** under **Security Settings** on the navigation menu. The **Security Settings : Device Security** page opens.
2. This section includes the following items for configuration.

Administrator Authentication on Data Import/Export

When selecting **On**, the machine will request approval from the administrator when importing or exporting data.

3. Click **Submit** button.

Send Security

This section includes settings for security for Sending.

1. Click **Send Security** under **Security Settings** on the navigation menu. The **Security Settings : Send Security** page opens.
2. This section includes the following items for configuration.

Dest. Check before Send

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

Entry Check for New Dest.

When enabled, this determines whether re-entry of a destination for confirmation is required when adding a new destination. To enable, select **On**.

Destination Check on Selecting

Determines whether to display the confirmation screen when selecting an address from the address book or one-touch key. To enable, select **On**.

New Destination Entry

Determines whether an entry of a new destination is allowed. **Permit** activates the entry of a new destination. **Prohibit** deactivates the entry of a new destination.

New Destination Entry (FAX)

This entry becomes active when New Destination Entry has been set to **Permit**. **Permit** activates the entry of a new fax destination. **Prohibit** deactivates the entry of a new fax destination.

Recall Destination

Enables or disables recalling the destination. **Permit** activates the entry of a destination to recall. **Prohibit** deactivates the entry of a destination to recall.

Broadcast

Enables or disables broadcast transmission. **Permit** activates the broadcast transmission. **Prohibit** deactivates the broadcast transmission.

3. Click **Submit** button.

Network Security

This section includes settings for network security.

*: If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

Network Security Settings

1. Click **Network Security** under **Security Settings** on the navigation menu. The **Security Settings : Network Security** page opens.
2. This section includes the following items for configuration.

TLS

TLS is a cryptographic protocol that provides communication security between a PC and the machine. To enable, select **On**. **Off** deactivates the TLS protocol for communication.

Serverside Settings

Configures security settings on the server side. This section includes the following items for configuration:

1. **TLS Version**: TLS, as well as TLS, is a cryptographic protocol that provides communication security between a PC and the machine. Select the version of TLS

that you want to use from **TLS1.0**, **TLS1.1**, **TLS1.2** and **TLS1.3**. You can use more than one algorithm at a time.

2. **Effective Encryption**: Select an algorithm that you want to use from **ARCFOUR**, **DES**, **3DES**, **AES**, **AES-GCM** and **CHACHA20/POLY1305**. You can use more than one algorithm at a time.
3. **Hash**: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
4. **HTTP Security**: Specifies the security level for HTTP.
   Secure Only (HTTPS): Encrypts all HTTP protocol communications. Only the URLs that begin with https://. are accessible. If a URL beginning with http:// is specified, it will be automatically redirected to "https://."
   Not Secure (HTTPS & HTTP): Enables access for both encrypted and unencrypted HTTP protocol communication. URLs beginning with either “https://” or “http://” are accessible. The former URL establishes encrypted communication and the latter establishes unencrypted communication.
5. **IPP Security**: Specifies the security level for IPP.
   Secure Only (IPPS): Encrypts all HTTP protocol communications.
   Not Secure (IPPS & IPP): Enables access for both encrypted and unencrypted IPP protocol communications.
6. **Enhanced WSD Security**: Specifies the security level for Enhanced WSD.
   Secure Only (Enhanced WSD over TLS): Encrypts all Enhanced WSD over TLS protocol communications.
   Not Secure (Enhanced WSD over TLS & Enhanced WSD): Enables access for both Enhanced WSD over TLS and Enhanced WSD protocol communications.
7. **eSCL Security**: Specifies the security level for eSCL.
   Secure Only (eSCL over TLS): Encrypts all eSCL over TLS protocol communications.
   Not Secure (eSCL over TLS & eSCL): Enables access for both eSCL over TLS and eSCL protocol communications.
8. **REST Security**: Specifies the security level for REST.
   Secure Only (REST over TLS): Encrypts all REST over TLS protocol communications.
   Not Secure (REST over TLS & eSCL): Enables access for both REST over TLS and REST protocol communications.

Clientside Settings

Configures security settings on the client (PC) side. This section includes the following items for configuration:

1. **TLS Version**: TLS, as well as TLS, is a cryptographic protocol that provides communication security between a PC and the machine. Select the version of TLS that you want to use from **TLS1.0**, **TLS1.1**, **TLS1.2**, and **TLS1.3**. You can use more than one algorithm at a time.
2. **Effective Encryption**: Select an algorithm that you want to use from **ARCFOUR**, **DES**, **3DES**, **AES**, **AES-GCM** and **CHACHA20/POLY1305**. You can use more than one algorithm at a time.
3. **Hash**: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.
   When more than one algorithm are selected, the machine selects one algorithm to automatically connect to the server.
   Note: When the **TLS** is set to **On** and **HTTP Security** is set to **Secure Only (HTTPS)**, the document boxes cannot be accessed by the TWAIN driver.

3. Click **Submit** button.

Network Access Settings

1. Click **Network Security** under **Security Settings** on the navigation menu. The **Security Settings : Network Security** page opens.
2. This section includes the following items for configuration.

Filtering/ Firewall

Filtering and firewall settings can restrict the network access to the device so that only the specific network addresses are allowed. For details, see the **IP Filter(IPv4) Settings** and **IP Filter(IPv6) Settings** pages on the **Network Settings : TCP/IP** page.

SNMPv1/v2c

The SNMP Read and Write Community settings function as passwords to control read and write access to the device via SNMP. For more information, see the **Management Settings : SNMP** page.

SNMPv3

The SNMPv3 communication settings are used to control the authentication and encryption communication that occur via SNMP. For more information, see the **Management Settings : SNMP** page.

TLS

To enable TLS, settings for Secure Protocols must be made. For more information, see **TLS** of the **Security Settings: Network Security** page.

IEEE802.1X

To enable IEEE802.1X, you must first make the IEEE802.1X settings. For more information, see the **IEEE802.1X Settings** page of the **Network Settings : Protocol** page.

IPSec

To enable IPSec, you must first make the IPSec settings. For more information, see the **Network Settings : TCP/IP** page.

3. Click **Submit** button.

Certificates

This page allows you to create, update, or check details on a certificate. After you have changed this setting, you must restart the network or this machine.

When you browse the Embedded Web Server by entering "https", a screen which confirms whether or not to authenticate the security certificate of the web site appears. You can select the following to solve the problem by configuring certificate.

- Temporary solution: Permit every time the attention message displayed with first access to the Embedded Web Server.
- Permanent solution: Import the device certificate or root certificate as the trusted certificate into the client PC. The Web Browser will authenticate the Embedded Web Server's certificate automatically in advance.

*: If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

Device Certificate

1. Click **Certificates** under **Security Settings** on the navigation menu. The **Security Settings: Certificates** page opens.

2. A list of the device certificates will be shown, allowing you to check the following: **Device Certificate 1** is automatically issued by default. The automatically issued certificate has the country code, common name, and a validity period of about 5 years already configured.

   Status

   Displays whether the certificate is active.

   Subject

   Displays the country code and common name.

   Expiration

   Displays the validity period of the certificate.

   Protocols in Use

   Displays the protocols available (ThinPrint, HTTPS/IPP over TLS, Enhanced WSD (TLS) over TLS, Other Protocols, eSCL over TLS, REST over TLS, VNC (RFB) over TLS, Enhanced VNC (RFB) over TLS, and S/MIME).

   Function in Use

   Displays the functions in use.

3. This section includes the following items for configuration.

   Device Certificate 1 (to **5**)

   This sections allows you to modify the initial settings, add a new one, and delete the existing settings.

   Click **Settings** button of **Device Certificate 1** (to **5**). The **Device Certificate 1** (to **5**) page opens to show the current status. This page allows the following settings:
   Status: Displays whether the certificate is active.
   Expiration: Displays the validity period of the certificate.
   View Certificate: Click **View** button to view the details of the certificate.
   Create Self Certificate: Click **Create** button to open the **Certificate Settings** page. Enter or select the information for settings. **Country Code**, **State/Province**, **Locality Name**, **Organization Name**, **Organization Unit Name**, **Common Name**, **subjectAltName**, **Current Universal Time (UTC/GMT)**, **Validity Period**, and **Key Length** are displayed automatically. **Key Length** is the information needed to generate encryption. Select **RSA** or **ECDSA** on **Key Encryption**. When selecting **RSA**, select **1024 bit**, **2048 bit** or **4096 bit** from the drop-down list as **Key Length**. When selecting **ECDSA**, select **256 bit**, **384 bit** or **512 bit** from the drop-down list as **Key Length**. Click **Submit** button to finalize settings.
   Import Certificate: When you click **Import** button, the **Import Certificate** screen is displayed. Click **Select File** button to select the desired device certificate, and click **Open** button. Enter the password for device certificate 2 (to 5) in **Password**.

Edit Certificate: Click **Edit** button to open the **Expiration Settings** page. Enter the validity period. **Current Universal Time (UTC/GMT)** is displayed automatically. Click **Submit** button to finalize settings.
Delete Certificate: When you click **Delete** button, the certificate is displayed. Delete the content.
Export Certificate: When you click **Export** button, the dialog screen is displayed. Save the certificate.
Create Certificate Signing Request: Click **Create** button to open the **Certificate** page. Enter or select the information for settings. **Country Code** and **Common Name** are displayed automatically. **Key Length** is the information needed to generate encryption. Select **RSA** or **ECDSA** on **Key Encryption**. When selecting **RSA**, select **1024 bit**, **2048 bit** or **4096 bit** from the drop-down list as **Key Length**. When selecting **ECDSA**, select **256 bit**, **384 bit** or **512 bit** from the drop-down list as **Key Length**. Click **Submit** button to finalize settings.
Retrieve Certificate via SCEP: Click **Retrieve** button to retrieve the certificates via SCEP server.

Root Certificate 1 (to **5**)

Allows you to create, configure, register, or delete the certificate.

1. Click **Settings** button of **Root Certificate 1** (to **5**). The **Root Certificate 1** (to **5**) **Settings** page opens to show the current status. This page allows the following settings:

- **Status**: Displays whether the certificate is active.
- **Expiration**: Displays the validity period of the certificate.
- **Import Certificate**: Click **Import** button to open the **File Import** page. Click **Browse** button and select a file to import in Import **Root Certificate 1** (to **5**) file. Click **Submit** button to finalize settings.

2. To delete a device certificate of **Device Certificate 2** (to **5**), highlight the certificate and click **Delete** button.
   Note: A certificate can be assigned to a protocol or a configuration.

The procedure to import the certificate via SCEP server is as follows.

1. Click **Certificates** under **Security Settings** on the navigation menu. The **Security Settings: Certificates** page opens.
2. Click **Settings** button on **Device Certificate 2** (to **5**).
3. Click **Retrieve** button on **Retrieve Device Certificate via SCEP**.
4. Enter the following address in **CA Server Address**.
   http://CAserver/certsrv/mscep/mscep.dll
5. Obtain the CA challenge password by accessing the following site.
   http://CAserver/certsrv/mscep_admin/
   Note: Authentication is required to obtain a password. If the link does not contain a challenge password, the challenge password is not required.
6. Enter the password that you obtained, in **CA Challenge Password**.
7. Specify settings for the SCEP server, if necessary.

- **CA Server Certificate(s) Verification**: Set to **On** to verify whether the CA Server Certificate is valid.
- **Issued-device Certificate Verification**: Set to **On** to verify whether the Issued-device Certificate is valid.
- **Timeout**: Configures the number of minutes for which communication with the CA server times out. If the server does not respond within the configured time, the connection is interrupted.
- **Proxy**: You can communicate with SCEP via an HTTP or HTTPS proxy server. Click **Settings** button to open the **Network Settings : TCP/IP** page. If you configure the proxy, set Proxy to **On**, and specify the following items as necessary. For details, see Proxy settings on *page 68*.
  After configuring settings, return to the Security Settings: Certificates page.

- **Proxy Authentication**: If you use a proxy server, enter the **User Name** and **Password** for proxy authentication.
- **Auto Renewal**: Set to **On** to obtain the certificate automatically from the CA server when the renewal period expires.
- **Renewal Period**: Enter the renewal period of the certificate.

8. Specify the settings for the Certificate Signing Request (CSR).
   Since the self-generated certificate by the machine does not have the signature of the certificate authority, communication errors may occur depending on the communication partner. To get a certificate signed by CA, you need data from the CSR. The administrator can generate the CSR by Embedded Web Server.
   Note: **Country Code** and **Common Name** are mandatory, the other items are optional.

- **Country Code**: Enter the country code. By default, the country code of the country in which the certificate is used is specified.
- **State/Province**: Enter the name of the state or province in which you are located.
- **Locality Name**: Enter the regional name where you are located.
- **Organization Name**: Enter the organization name.
- **Organization Unit Name**: Enter the organization unit name.
- **Common Name**: Enter the current host name.
- **E-mail Address**: Enter the e-mail address.
- **subjectAltName**: Specifies the subject alternative names (SANs) of the CA server certificate. You can specify up to five identifiers, such as the domain name and IP address of the CA server for which you want to set a server certificate. Select **None**, **E-mail Address**, **DNS**, **IPv4**, or **IPv6** from the drop-down lists. If you select anything other than **None**, you can enter an identifier.
- **Current Universal Time (UTC/GMT)**: Displays the standard time for your work environment using Embedded Web Server.
- **Key Length**: Select the key length from the drop-down list.

9. Click **Submit** button.
   A confirmation dialog is displayed. Click OK button.
   A list of certificate settings is displayed.
10. Confirm the list and then click **Submit** button.
    Note: A waiting time will occur until the machine receives the certificate.
11. Restart the machine.
    For details on how to restart, refer to *Restart* on page 120.
    The setting is registered.

10 Management Settings

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

If needed, make the following settings: See below for detailed information.

- Job Accounting
- Authentication
- ID Card
- Notification/Report
- History Settings
- SNMP
- System Stamp
- Message Board
- Restart/Reset
- Remote Operation
- CO2 Emission Chart
- Online Software Update

Job Accounting

This section includes advanced settings for Job Accounting.

Settings

To enable Job Accounting, you must first make the Job Accounting settings.

1. Click **Job Accounting** under **Management Settings** on the navigation menu. The **Management Settings: Job Accounting** page opens.
2. Click **Settings** button. The **Job Accounting Settings** page opens. This section includes the following items for configuration.

Job Accounting

Turn to **On** to activate Job Accounting.

Job Accounting Access

To execute Job Accounting using network authentication, select Network.

Action Settings

This section includes the following items for configuration:

1. **Apply Limit**: Select the behavior of processing a job when the maximum print pages have been reached, from **Immediately**, **Subsequently**, and **Alert Only**.
2. **Copier/Printer Count**: You can select how the copying and printing page counts are shown – either the total of both or each of copying and printing individually.
3. **Unknown ID Job**: Select the behavior of processing a job that has an unknown account ID or has no account ID, from **Permit** and **Reject**.

3. If you have set **Job Accounting** to **On** in step 2 above, **Default Counter Limit** and **Count by Paper Size** are displayed.

4. You can configure settings for **Default Counter Limit**. Enter the initial value for the counter limit, from **1** to **9999999**.

5. Configures **Count by Paper Size**. If needed, make the following settings for **Paper 1** to **5**:

    1. **Paper 1** (to **5**): To aggregate printed pages depending on the size, select **On**.
    2. **Page Size**: Select a paper size to aggregate the printed pages, from the drop-down list.
    3. **Media Type**: Select a media type to aggregate the printed pages, from the drop-down list.

6. Click **Submit** button.

Local Job Accounting List

This section includes settings for adding and deleting an account and for departmental accounting.

Add Account

To aggregate pages by a department or all departments, accounts must be added.

1. Click **Add Account** icon. The **New Account - Property** page opens.
2. You can configure settings for **Account Property**. This section includes the following items for configuration:

    Account Name

    Enter the account name.

    Account ID

    Enter the Account ID.

3. You can configure settings for **Restriction**.

    1. Select how the functionalities are restricted for use, from **Off**, **Counter Limit**, and **Reject Usage**.
    2. Enter the initial value for restricting functionalities, from **1** to **9999999**.

4. Click **Submit** button.

Delete

1. Click the checkbox to the left of the **Account ID**. To select all items at once, click **Check All**.
2. Click **Delete** icon once.

Counter

1. Click the checkbox to the left of **Account ID**.
2. Click **Counter** icon once. The total number of copies accounted for the account is displayed.
3. You can view the results of accounting.

Printed Pages

From the drop-down list, select **Printed Pages by Function**, **Printed Pages by Paper Size**, or **Printed Pages by Layout** as needed for assign a limit.

Scanned Page Counts

Shows the total scanned pages of Copy, FAX, and Other Scan.

FAX Counter

Shows the total pages and times of sending faxes.

Counter Reset

Click **Reset** button to reset the counters.

4. Click **Counter** button of **Other Account** or **Total Account** to view the result accounting.

Other Account

The total number of copies accounted for other account is displayed.

Total Account

The total number of copies accounted for all account is displayed.

Authentication

This section includes advanced settings for authentication.

Settings

To enable authentication, you must first make the authentication settings.

1. Click **Authentication** under **Management Settings** on the navigation menu. The **Management : Authentication** page opens.
2. Click **Settings** button. The **Authentication Settings** page opens. This section includes the following items for configuration.

General

For **Authentication**, select one of **Off**, **Local Authentication** and **Network Authentication** from the drop-down list.

3. If you have selected **Local Authentication** in **General** in step 2 above, configure the following settings.

Local Authorization

Select **On** or **Off**.

Guest Authorization

Switches Guest Authorization **On** or **Off**.

Guest Settings

Click **Guest Settings** button to open **Guest Property** screen.

1. **User Name**: Type a User name.

2. **Access Level**: Select User if the user is not an administrator.
3. **Account Name**: From the drop-down list that is displayed by clicking **Account List** button, select an account name followed by **Submit** button.
4. **Authorization**: Configure whether to restrict the use of each function.
5. Click **Submit** button.

Unknown User Settings

Select **Reject** or **Permit** as an unknown ID job. When selecting **Permit**, **Unknown User Settings** button appears. Click this button to open the **Unknown User-Property** page.

1. **User Name**: Change the user name as desired.
2. **Account Name**: From the drop-down list that is displayed by clicking **Account List** button, select an account name followed by **Submit** button.
   Note: **Account Name** is displayed when **Job Accounting** is set to **On**.
3. **Print Restriction**: Select **Off** or **Reject Usage**.
4. **Print Restriction (Full Color)**: Select **Off** or **Reject Usage**.
5. Click **Submit** button.

Simple Login

Switches Simple Login **On** or **Off**.

Simple Login Key List

Click **Simple Login Key List** button to open the **Simple Login Key List** page. Click **Settings** button of **Key 1** (to **20**). Configure the following settings as necessary.

1. **Display Name**: Enter the user name displayed on the Simple Login Key List.
2. **Icon**: Select the user icon displayed on the Simple Login Key List from the drop-down list.
3. **Password**: Select **On** or **Off**.
4. **Authentication**: For Authentication, select one of **Local Authentication** and **Network Authentication** from the drop-down list.
5. **User**: When selecting **Local Authentication** from **Authentication** drop-down list, click **User List** button to open the **User List** page. Select the user from the list and click **Submit** button.
6. **Login User Name**: When selecting **Network Authentication** from **Authentication** drop-down list, enter the login user name to access the authentication server.
7. **Login Password**: When selecting **Network Authentication** from **Authentication** drop-down list, enter the login password to access the authentication server.
8. **Domain**: When selecting **Network Authentication** from **Authentication** drop-down list, select the domain from the drop-down list.
9. Click **Submit** button, and then **Back** button.

Display List on Login

Select **On** to use Quick Print Job.

1. **Logout after Printing**: Select whether or not to automatically log out after printing.
2. **Skip password and Copies Confirmation**: Select whether or not to skip entering the PIN code and confirming the number of copies when printing when a PIN code is set.

Universal Print Settings

Select **On** to print in conjunction with Universal Print.

4. If you have selected **Network Authentication** in **General** in step 2 above, configure the following settings.

Network Authorization Server

Default Host Name: Enter the host name or IP address of the network authentication server. If you use the host name, you must first specify the DNS server information.
Port Number: Enter the port number of the network authentication server.
Server Type: Select the server type from the drop-down list. When you use ID Card, select **Ext.**.
Certificate Verification Setting: This item appears when **Ext.** is selected as **Server Type**. Configure the settings in **Network Settings** : **Protocol** page.
Default Domain: If two or more domains are registered, select the default domain from the drop-down list. Click **Domain List** button to open **Network Authentication Domain List** page.
When you set **Use Multiple Authentication Server** to **Off**, you can use only the authentication server of the default domain. When you select **On**, you can register a primary server and a secondary server for each domain. Each domain is referred to in the order of the primary server and secondary server.
If you set **Default Host Name**, each domain is referred to in the order of the Default Host Name, primary server and secondary server.

PIN Login Settings

Configure the PIN Login Settings. You can configure this setting if you select **Ext.** as a server type.
PIN Login: Select **On** or **Off**.

Network User Authority

Obtain Network User Property: Select **On** or **Off**.
Server Settings: Click this button to open the **Server Settings** page.

1. **LDAP**: Confirm that LDAP is set to **On**. If the setting is **Off**, switch to **On** in the **Network Settings : Protocol** page.
2. **LDAP Server Name**: Enter the LDAP server name or IP address.
3. **LDAP Port Number**: Enter the LDAP port number.
4. **Search Timeout**: Enter the search timeout in seconds.
5. **LDAP Security**: Configure this setting in the **Network Settings : Protocol** page.
6. **Authentication Type**: Selects either the **Simple**, **SASL** or **SASL with sign** for the authentication type.
7. **Acquisition of User Information**: Enter **Name 1**, **Name 2**, or **E-mail Address**.
8. Click **Submit** button, and then **Back** button.

Give Local User Authority

Give Local User Authority: Select **On** or **Off**. Select **On** to configure the following settings.

1. **User Full Action**: Select **On** or **Off**.
2. **Authority When Offline**: Select **On** or **Off**.
3. **Local Authorization Defaults**: Specify the expiration date when network authentication is not performed for the given local user authority.
4. **Default Authorization Information**: Click **Settings** button to display the **Default Authorization Property** screen and configure authorization information there.
5. Click **Submit** button, and then **Back** button.

Group Authorization

Switches Group Authorization **On** or **Off**.

Group List

Click **Group List** button to open the **Group List** page. Click a group name to authorize from the Group List. The **Property** page opens.

1. **Group ID**: Change the group ID as desired.
2. **Group Name**: Change the group name as desired.
3. **Access Level**: Select **Administrator** or **User** as an access level.
4. **Account Name**: From the drop-down list that is displayed by clicking **Account List** button, select an account name followed by **Submit** button
5. **Authorization**: Configure whether to restrict the use of each function.
6. Click **Submit** button, and then **Back** button.

For **Guest Authorization**, **Unknown User Settings**, and **Simple Login**, refer to the settings and procedure in step 3, respectively.

5. Click **Submit** button.

Local User List

The user information can be added or modified on the local user list.

Add User

This adds a new user. Up to 1000 users can be registered.

1. Click **Add User** icon. The **New User - Property** page opens.

2. You can configure settings for **User Property**. This section includes the following items for configuration:

User Name

Enter the name displayed on the user list (up to 32 characters).

Login User Name

Enter the user ID to log in (up to 64 characters). You cannot duplicate a login user name to register.

Password

Enter the password to log in (up to 64 characters).

Confirm Password

To confirm the password, enter the same password that was entered in Password.

Access Level

Select either **Administrator** or **User** for privilege.
If **Access Level** is **User**, configure **System Administration Permissions** below:

- Original/Paper Settings
- Address Book
- User/Job Account Information
- Basic Network Settings
- Basic Device Settings
- Advanced Device/Network Settings

Account Name

From the drop-down list that is displayed by clicking **Account List** button, select an account name followed by **Submit** button.

E-mail Address

Add a user's e-mail address. To enable sending e-mail, add your e-mail address. The e-mail address will be automatically selected whenever an e-mail notice is required by functionality.

Language

Select either **English**, **Deutsch**, **Français**, **Español**, **Italiano**, **Nederlands** or **РУССКИЙ** for the user interface language, from the drop-down list.

Default Screen

Select an item for the default screen from the drop-down list.

Default Screen (Send/FAX)

In **Default Screen (Send/FAX)**, when clicking **FAX** or **Send** to open a drop-down list, this item appears. Select either **Destination**, **Common Address Book**, **One-Touch Key** or **External Address Book 1(to 4)** from the drop-down list.
Note: If the optional fax kit is not installed, **Default Screen (Send)** appears.

3. Click **Submit** button.

Edit

1. Click the checkbox to the left of the user name.Change
2. Change the items as necessary.

Note: You can edit **Cloud User Name** on **Advanced Settings**. Click **Cloud Authentication** to complete the authentication process. Follow the instruction on **Cloud Authentication** page.

Delete

1. Click the checkbox to the left of the user name. To select all items at once, click **Check All** icon.
2. Click **Delete** icon once.

ID Card

This section includes advanced settings for ID Card authentication.

ID Card Settings

To use the ID Card authentication, you must first make the ID Card settings.

1. Click **ID Card** under **Management Settings** on the navigation menu. The **Management Settings : ID Card** page opens.
2. Configure the **Authentication Settings**.

Keyboard Login

For keyboard login, select **Prohibit** or **Permit**.

Additional Authentication

Select **Off**, **Use Password** or **Use PIN**.
Note: **Password Authentication** appears instead of **Additional Authentication** according to the machine type. Select **On** to use the password authentication.

3. Configure the **ID Card Settings**. Select **IDM**, **FeliCa** or **MIFARE** as the **ID Card Read Type**.

4. Configure the FeliCa Settings.

System Code 1

Enter the System Code 1 from **0000** to **FFFF**.

Service Code 1

Enter the Service Code 1 from **0000** to **FFFF**.

Number of Blocks in Use.

Enter the number of blocks in use from **1** to **255**.

System Code 2

Enter the System Code 2 from **0000** to **FFFF**.

Service Code 2

Enter the Service Code 2 from **0000** to **FFFF**.

Number of Blocks in Use.

Enter the number of blocks in use from **1** to **255**.

Configure the System Code 2 as necessary.

5. Configure the MIFARE Read Settings (1 to 5).

Sector Number

Enter the sector number from **00** to **3F**.

Secret Key Type

Select **Key A** or **Key B**.

Secret Key

Specifies the secret key in hexadecimal. The length of the secret key is 12 digits. Enter the encryption key including the numbers 0-9 and the letters A-F.

6. Click **Submit** button.

Notification/Report

This section includes advanced settings for attentions and reports.

Notification/Report Settings

1. Click **Notification/Report** under **Management Settings** on the navigation menu. The **Management Settings : Notification/Report** page opens.

2. You can configure settings for **Management Report**. This item is shown only when an optional Fax kit is installed.

   Outgoing FAX Report

   Select either **On** or **Off**.

   Incoming FAX Report

   Select either **On** or **Off**.

3. You can configure settings for **Send Result Report**.

   E-mail/Folder

   From the drop-down list, select **Off**, **On**, or **Error Only**. If an error occurs during transmission, **Error Only** allows a transmission result reported by e-mail and stored in the folder.

   FAX / i-FAX

   From the drop-down list, select **Off**, **On**, **Error Only**, or **Specify Each Job**. If an error occurs during transmission, **Error Only** allows printing a transmission result.

   Attach Image

   Select either **Off**, **Partial Image**, or **Full Image**.

   Attach Image of Network FAX

   Select either **Cover Page** or **Body** as the attached image when sending documents using Network FAX.

   Canceled before Sending

   Select either **On** or **Off**.

   Recipient Format

   Select either **Name or Destination** or **Name and Destination**.

4. You can configure settings for **Receive Result Report**.

   FAX/i-FAX RX

   From the drop-down list, select **Off**, **On**, or **Error/Storing in Box**. If an error occurs during reception or received draft is forwarded to fax box, **Error/Storing in Box** allows a receive result reported by e-mail or report.

   Report Type

   Select either **Print Report** or **E-mail**.

   E-mail Address

   Enter the e-mail address if you select **E-mail** as a report type.

5. You can configure settings for **Job Finish Notice**.

Attach Image

Select either **On** or **Off**.

6. You can configure settings for **Maintenance Report**.

Equipment ID

Enter the equipment ID.

Recipient E-mail Address

Enter the E-mail address to receive the maintenance reports. Use a semicolon (;) between multiple addresses.

Subject

Enter the Subject of the report.

Maintenance Report Interval

From the drop-down list, select one of **None**, **Monthly**, **Weekly**, **Daily**, **Hourly** as desired.
For **Monthly**, check the month and select a date and a time from the **Day** and **Time** drop-down lists, respectively.
For **Weekly**, select a day of the week and a time from the **Day** and **Time** drop-down lists, respectively.
For **Daily**, select a time from the **Time** drop-down list.
For **Hourly**, select a time from the **every Hour** drop-down list.

Run once now

A maintenance report will be sent to a recipient once automatically when clicking Send.

7. Configure **Event Reports/Schedule Reports 1** (to **3**) as follows.

Reports 1 (to **3**) **E-mail Address**

Enter the E-mail address for the first recipient.

Subject

Enter the Subject of the report using a variable.

Event Report

Select an item for the event report in **Event Report Items** and select an interval of sending a report in **Event Report Interval**. When selecting **Notify when Data Sanitization Starts** to **On**, the mail which notify that data sanitization starts is sent to the recipient specified in **Reports 1 (to 3) E-mail Address**. Set **Syslog Records Kept Alert** to **On** to alert the Syslog records kept from each server. When selecting **Notify when Malicious Program is Detected** to **On**, the mail which notify that malicious program was detected is sent to the recipient specified in **Reports 1 (to 3) E-mail Address**.

Scheduled Report

Select **Counter Status** to attach the counter report.

Scheduled Report Interval

From the drop-down list, select one of **None**, **Monthly**, **Weekly**, **Daily**, **Hourly** as desired.
For **Monthly**, check the month and select a date and a time from the **Day** and **Time** drop-down lists, respectively.
For **Weekly**, select a day of the week and a time from the **Day** and **Time** drop-down lists, respectively.
For **Daily**, select a time from the **Time** drop-down list.
For **Hourly**, select a time from the **every Hour** drop-down list.

Run once now

A schedule report will be sent to the recipients 1 to 3 once automatically when clicking **Send** button.

8. Click **Submit** button.

History Settings

This section includes advanced settings for histories.

History Settings

1. Click **History Settings** under **Management Settings** on the navigation menu. The **Management Settings : History Settings** page opens.
2. Determines whether the **Job Log History** is sent or not.

Recipient E-mail Address

The E-mail address of the recipient of reports. If there are more than one recipient, then the addresses should be separated by a semicolon (;).

Subject

Enter the subject for the Job Log History.

SSFC Subject

Enter the subject for the Job Log History using the ID Card authentication.

Auto Sending

Determines whether the job log report is sent or not. Select either **On** or **Off**.

Number of Records

Enter the number of job logs for sending.

Personal Information

Determines whether personal information are included in job logs. Select **Include** or **Exclude** as desired.

Run once now

A job log will be sent to a recipient once automatically when clicking **Send** button.

3. You can configure settings for **Login History Settings**.

Login History

Select either **On** or **Off**.

Recipient E-mail Address

The E-mail address of the recipient of logs. If there are more than one recipient, then the addresses should be separated by a semicolon (;).

Subject

Enter the subject for the Login History.

Auto Sending

Determines whether the job log is sent. Select either **On** or **Off**.

Number of Records

Set the number of Login Histories for sending, from **1** to **1000**.

View History

A Login History List will be shown when clicking **View** button.

Run once now

A Login History will be sent to a recipient once automatically when clicking **Send** button.

4. You can configure settings for **Device Log History Settings**.

Device Log History

Select either **On** or **Off**.

Recipient E-mail Address

The E-mail address of the recipient of logs. If there are more than one recipient, then the addresses should be separated by a semicolon (;).

Subject

Enter the subject for the Device Log History.

Auto Sending

Determines whether the Device Log History is sent or not. Select either **On** or **Off**.

Number of Records

Set the number of Device Log Histories for sending, from **1** to **1000**.

View History

A Device Log History List will be shown when clicking **View** button.

Run once now

A Device Log History will be sent to a recipient once automatically when clicking **Send** button.

5. You can configure settings for **Secure Communication Error Log History Settings**.

Secure Communication Error Log History

Select either **On** or **Off**.

Recipient E-mail Address

The E-mail address of the recipient of logs. If there are more than one recipient, then the addresses should be separated by a semicolon (;).

Subject

Enter the subject for the Secure Communication Error Log History.

Auto Sending

Determines whether the Secure Communication Error Log History is sent. Select either **On** or **Off**.

Number of Records

Set the number of Secure Communication Error Log Histories for sending, from **1** to **1000**.

View History

A Secure Communication Error Log History List will be shown when clicking **View** button.

Run once now

A Secure Communication Error Log History will be sent to a recipient once automatically when clicking **Send** button.

6. You can configure settings for **Audit Log (Syslog) Settings**.

Syslog

Configure the default settings in **Network Settings: Protocol** page.

Destination Server

Enter the address for destination server. When you specify the server name as domain name, configure the DNS server in **Network Settings: TCP/IP page**.

Port Number

Enter the port number for Syslog. Typically, this should be 514.

Facility

Select the number of facility which obtain the log from the drop-down list.

Severity

Select the severity of obtained log from the drop-down list. The higher the number, the greater the severity.

7. Click **Submit** button.

SNMP

This section includes advanced settings for SNMP.

If the settings for the item marked with an asterisk (*) has been changed, you must restart the machine or the network. To restart the machine, proceed to the **Management Settings : Restart/Reset** page.

SNMP Settings

1. Click **SNMP** under **Management Settings** on the navigation menu. The **Management Settings : SNMP** page opens.
2. Configure **SNMPv1/v2c** as follows.

SNMPv1/v2c

Activate or deactivate the SNMPv1/v2c protocol. Select either **On** or **Off** in the **Network Settings : Protocol** page. To configure SNMP v1/v2, proceed as follows.

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 machine.

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 machine.

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 machine.

sysLocation

The MIB-II sysLocation object. Usually this is the location information of the machine which is described under **Location** of **System Settings** page. Go to the **System Settings** page under **Device Settings** to modify the settings.

HP Web Jetadmin Compatibility

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

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 machine.

Trap Recipient

Click **Settings** button to finalize the settings.

3. Configure **SNMPv3** as follows. After you have changed the setting, you must restart the machine.

SNMPv3

Sets whether to use the SNMPv3 protocol. Select either **On** or **Off** in the **Network Settings : Protocol** page. To configure SNMP v3, proceed as follows.

Authentication

Sets whether the user authentication is performed in SNMP communication.

Hash

Select either **MD5** or **SHA1** for Hash algorithm. This item becomes active when the Authentication is set to **On**.

Privacy

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

Encryption

Select either **DES** or **AES** for encryption algorithm. This item becomes active when the Authentication is set to **On**.

Read Only User

Enter **User Name** and **Password** of the read-only user.

Read/Write User

Enter **User Name** and **Password** of the read/write user.

4. Click **Submit** button.

System stamp

This section includes advanced settings that apply to the system stamp.

System stamp settings

The system stamps include character and serial numbered stamps. Both are applied to printing, sending, and storing jobs. For example, the following describes how to apply the character and serial numbered stamps to a printing job.

Setting a Character Stamp

1. Click **System Stamp** under **Management Settings** on the navigation menu. The **Management Settings : System Stamp** page opens.
2. To apply a character stamp to a print job, proceed as follow. Select **On** or **Off** and click **Settings** button.

    1. **Stamp Settings**: Select a type of stamps from the drop-down list. Select **Text Entry** to enter a text for the stamp.
    2. **Stamp Method Settings**: Select either **Each Print Page** or **Each Original Page** to show the stamp.
    3. **Position Settings**: Select the position and rotation for the stamp.
    Position: Select how the stamp is positioned on the page, from the drop-down list.
    Nudge: Nudge the stamp in range of -10 to +10, from right to left or up and down, as you exactly intend to position on the page.

Back page: Select **Mirror Front Page** or **Same as Front Page** as desired.
Rotation: Select **Clockwise** or **Counterclockwise** and enter the angle as desired.

4. **Font Settings**: Select the typography for the characters of the stamp.
Font Type: From the drop-down list, select **Courier** or **Letter Gothic** as desired.
Font Size: From the drop-down list, select **64.0 pt**, **48.0 pt**, or **24.0 pt**.
Bold: Select either **On** or **Off**.
Italic: Select either **On** or **Off**.
Color: Select the color for the text from the drop-down list.
Character Border: Select the type of borders for the text from the drop-down list.
Display Pattern: From the drop-down list, select **Transparent**, **Clipping**, or **Overwrite**.
Density: Select the transparency of the character stamp, from the drop-down list. The less the value, the more the stamp becomes transparent.

3. Click **Submit** button. To cancel settings, click **Back** button.

Creating a Bates Stamp

1. Click **System Stamp** under **Management Settings** on the navigation menu. The **Management Settings : System Stamp** page opens.

2. To serial-number the printed pages, proceed as follow. Select **On** or **Off** and click **Settings** button.

1. **Stamp Settings**: Add or delete properties of the stamp for serial numbering as follows.
Add Stamp: You can add **Date**, **User ID**, **Serial Number**, **Numbering**, and **Text 1** or **Text 2** to a stamp.
To remove a stamp, select the stamp on the list and click **Delete** button.
Date Format: Select a format of date from the drop-down list.
Text: Enter a text in **Text 1** or **Text 2** for the serial numbered stamp.
2. **Numbering Settings**: Select the numbering properties of the bates stamp.
Fixed Digit Number: Select a number of digits to fix from the drop-down list.
Numbering Default: Enter the initial value of the serial number.
3. **Position Settings**: Select the position for the stamp.
Position: Select how the stamp is positioned on the page, from the drop-down list.
Nudge: Nudge the stamp in range of -10 to +10, from right to left or up and down, as you exactly intend to position on the page.
Back Page: Select **Mirror Front Page** or **Same as Front Page** as desired.
4. **Font Settings**: Select the typography for the characters and the display pattern of the stamp.
Font Type: From the drop-down list, select **Courier** or **Letter Gothic** as desired.
Font size: From the drop-down list, select **14.0 pt**, **12.0 pt**, or **10.5 pt**.
Bold: Select either **On** or **Off**.
Italic: Select either **On** or **Off**.
Color: Select the color for the text from the drop-down list.
Display Pattern: From the drop-down list, select **Transparent**, **Clipping**, or **Overwrite**.
Density: Select the transparency of the character stamp, from the drop-down list. The less the value, the more the stamp becomes transparent.

3. Click **Submit** button. To cancel settings, click **Back** button.

Stamp Default Settings

1. Click **System Stamp** under **Management Settings** on the navigation menu. The **Management Settings : System Stamp** page opens.

2. To change the stamp default settings, click **Settings** button in **Default Settings**.

    1. **Text Stamp**: Add or delete the text stamp as follows.
    Text 1 (to **10**): Enter the text for text stamp. To remove the text stamp, delete the text in **Text 1** (to **10**).
    2. **Font Size**: Enter the following font size.
    Page #: Enter **Font Size 1** (to **3**) for page number in range of **6.0** to **64.0** pt as necessary.
    Text Stamp: Enter **Font Size 1** (to **3**) for text stamp in range of **6.0** to **64.0** pt as necessary.
    Bates Stamp: Enter **Font Size 1** (to **3**) for bates stamp in range of **6.0** to **64.0** pt as necessary.

3. Click **Submit** button. To cancel settings, click **Back** button.

Message Board

This section provides information on how to configure the message board that is shown on the machine's operation panel of the embedded web server.

Settings

To enable the message board, you must first make settings for the message board.

1. Click **Message Board** under **Management Settings** on the navigation menu. The **Management Settings : Message Board** page opens.
2. Click **Settings** button.
3. To enable the message board, select **On** and click **Submit** button. To cancel settings, click **Back** button.

Adding a Message List

1. Click **Add** icon. The **New Message - Property** page opens.
2. You can configure settings for property. This section includes the following items for configuration:

Device to Show

Add **Operation Panel** and/or **Embedded Web Server**.

Place to Show

You can add **Home** and/or **Login Screen**.

Message Type

Select a type of message from **Normal**, **Alert**, and **Prohibition** on the drop-down list.

Priority Show

Determines whether the message board is prioritized to show. To apply the message board with priority, select **On**.

Title

You can enter the title of the message board.

Body

Enter the message you want to post on the message board.

3. Click **Submit** button.

Delete

1. Click the checkbox to the left of the message list. To select all items at once, click **Check All** icon.
2. Click **Delete** icon once.

Priority

You can modify the order of the messages.

1. Click the checkbox to the left of the message list.
2. To give an increased priority for a message, select the message and click **Raise Priority** icon. To give a decreased priority for a message, select the message and click **Lower Priority** icon.

Restart/Reset

This section includes advanced settings for resetting.

Restart

1. Click **Restart/Reset** under **Management Settings** on the navigation menu. The **Management Settings : Restart/Reset** page opens.
2. Restart the device or network as needed.

Restart Device

Clicking **Restart Device** button restarts the machine.

Restart Network

Clicking **Restart Network** button restarts only the related network service of the machine.

Reset device to factory default

1. Click **Restart/Reset** under **Management Settings** on the navigation menu. The **Management Settings : Restart/Reset** page opens.
2. Click **Initialize** button as needed. The machine is reset to the factory default.

Remote Operation

This section includes advanced settings for remote operation.This function enables the system administrator to explain how to operate the panel and troubleshoot to user, by accessing operation panel of the machine at remote using browser and VNC software.

The supported browser is as follows. We recommend the latest version of browser to use Remote Operation.

- Google Chrome (Version 21.0 or later)
- Microsoft Edge
- Mozilla Firefox (Version 14.0 or later)
- Safari (Version 5.0 or later)

Note: To execute Remote Operation, Enhanced VNC (RFB) over TLS is set to **On** in network protocol (The default setting is **On**). For details, refer to *Protocol* on page 80.

Remote Operation

1. Click **Protocol** under **Network Settings** on the navigation menu. The **Network Settings : Protocol** page opens.
2. Set **Enhanced VNC (RFB) over TLS** to **On** on the **Other Protocols**.

   Note: The default setting is **On**. For other settings, refer to *Protocol* on page 80.
3. Click **Remote Operation** under **Management Settings** on the navigation menu. The **Management Settings: Remote Operation** page opens.
4. Configure the remote operation settings as needed.

   Restart Operation

   Select **On** to enable the remote operation.

   Use Restriction

   Select **Off**, **Administrator Only**, or **Use Password** from the drop-down list.
   When selecting **Off**, users without administrator privileges can also execute remote operation.
   When selecting **Administrator Only**, only administrator can execute remote operation.
   Note: When selecting **Administrator Only**, the remote operation using VNC software is unavailable.

   When selecting **Use Password**, enter the password in Password and Confirm Password.

   VNC Compatible Software

   When selecting **VNC (RFB)** or **VNC (RFB) over TLS** as a network protocol, "Available" appears.
5. Click **Submit** button.

Executing Remote Operation from Google Chrome

1. Start up the browser.
2. Enter "https://" and host name of the machine to start up the Embedded Web Server.
3. Click **Remote Operation** under **Device Information/Remote Operation** on the navigation menu. The **Device Information/Remote Operation : Remote Operation** page opens.
4. Click **Start** button.

   Note: If the user is logged in to the device, the permission confirmation screen will be displayed on the operation panel. Select **Yes**.

If pop-up blocking of the browser occurs during connection of the Remote Operation, select Always allow pop-ups from https:// [host name], and click **Done**. Perform Remote Operation after waiting one minute or more.

When the Remote Operation is started up, the operation panel screen will be displayed on the system administrator's or user's PC screen.

Executing Remote Operation from Microsoft Edge

1. Start up the browser.
2. Enter "https://" and host name of the machine to start up the Embedded Web Server.
3. Login to the Embedded Web Server with Administrator right.
4. Click **Certificates** under **Security Settings** on the navigation menu. The **Security Settings : Certificates** page opens.
5. Click **Settings** button of the device certificate which has been assigned to **Enhanced VNC (RFB) over TLS**.
6. Click **Export** button to save the certificate in your PC.
7. In Microsoft Edge, go to Tools > Internet options, and select the **Content** tab.
8. Click **Certificate** button to import the certificate saved in step 6 to "Trusted Root Certification Authorities".
9. Restart the browser.
10. Enter "https://" and host name of the machine to start up the Embedded Web Server, and login.
11. Click **Remote Operation** under **Device Information/Remote Operation** on the navigation menu. The **Device Information/Remote Operation : Remote Operation** page opens.
12. Click **Start** button.

    Note: If the user is logged in to the device, the permission confirmation screen will be displayed on the operation panel. Select **Yes**.
    If pop-up blocking of the browser occurs during connection of the Remote Operation, select "Always allow". Perform Remote Operation after waiting one minute or more.
    If you failed to start up using steps above, go to Tools > Internet Options in Microsoft Edge, and select the **Security** tab. Select Local intranet and then click **Site** button. Untick the checkboxes of "Automatically detect intranet network" and "Include all local (intranet) sites not listed in other zones". Perform Remote Operation after waiting one minute or more.

    When the Remote Operation is started up, the operation panel screen will be displayed on the system administrator's or user's PC screen.

Executing Remote Operation from Mozilla Firefox

1. Start up the browser.
2. Enter "https://" and host name of the machine to start up the Embedded Web Server.
3. Click **Advanced** button, **Add Exception...** button and then click **Confirm Security Exception** button.

4. Click **Remote Operation** under **Device Information/Remote Operation** on the navigation menu. The **Device Information/Remote Operation : Remote Operation** page opens.

5. Click **Start** button.

   Note: If the user is logged in to the device, the permission confirmation screen will be displayed on the operation panel. Select **Yes**.

   When the Remote Operation is started up, the operation panel screen will be displayed on the system administrator's or user's PC screen.

6. If pop-up blocking of the browser occurs during connection of the Remote Operation, the notification bar appears under the URL bar. Follow the steps below to solve the problem.

   1. In Firefox, go to Open menu > Options. Click **Contents** in side menu, and then click **Exceptions...** button in Pop-ups.
   2. Enter "https://" and host name of the machine into Address of website, and the click **Allow** button.
   3. Confirm that the entered address is registered to Allowed sites list and then click **Save Changes** button.
   4. Wait for one minute and click **Start** button again.
   5. Confirm that the "Failed to connect to server" error is displayed. Perform the next steps 6 to 11 within one minute.
   6. In Firefox, go to Open menu > Options. Click **Advanced** in side menu, and then select the **Certificates** tab.
   7. Click **View Certificates** button and select the **Servers** tab.
   8. Click **Add Exception...** button.
   9. Enter "https://", host name of the machine, and Enhanced VNC over TLS port number into the URL, and then the click **Get Certificate** button.
   10. Click **Confirm Security Exception** button.
   11. Wait for one minute and click **Start** button again.

Executing Remote Operation from Safari for Mac OS

1. Start up the browser.

2. Enter "https://" and host name of the machine, and then click **Show Details** button.

3. Click on "View the certificate".

4. Drag and drop the certificate icon to copy it to the desktop.

5. Double-click the copied certificate to open Keychain Access.

6. Right-click on the applicable certificate, and select "Get Info" from the menu.

7. Select "Always Trust" for Secure Socket Layer (TLS) in Trust.

8. Click **Remote Operation** under **Device Information/Remote Operation** on the navigation menu. The **Device Information/Remote Operation : Remote Operation** page opens.

9. Click **Start** button.

   When the Remote Operation is started up, the operation panel screen will be displayed on the system administrator's or user's PC screen.

10. When the device certificates used for HTTPS is different from that used for Enhanced VNC (RFB) over TLS, follow the next steps.

1. After step 8, click **Remote Operation** under **Device Information/Remote Operation** on the navigation menu. The **Device Information/Remote Operation : Remote Operation** page opens.
2. Click **Start** button.
3. Enter "https://", host name of the machine, and Enhanced VNC over TLS port number into the URL, within one minute.
4. Click the **Show Details** button and execute steps from 3 to 9 above.

CO2 Emission Chart

This section includes advanced settings for the CO2 emissions chart. You can calculate CO2 emissions based on the power consumption of the machine and check an emissions chart. Configure the following settings to check CO2 emissions.

1. Click **CO2 Emission** under **Management Settings** on the navigation menu. The **Management Settings : CO2 Emission Chart** page opens.
2. You can configure settings for **CO2 Emission Chart**.

Default Display

Select either **CO2 Emission** or **Power Consumption**.

Default Display Unit

Select either **Month** or **Year**.

CO2 emission factor

Enter the value in the range of 0 to 9999. The default setting is 500.

Note: To reset the CO2 data, select **Reset** button on **Data Reset** in **Management Settings : CO2 Emission** page.

3. Click **Submit** button.

Online Software Update

This section describes how to configure the proxy authentication and certificate settings so that you can update software via the Internet from the machine's operation panel.

1. Click **Online Software Update** under **Management Settings** on the navigation menu. The **Management Settings : Online Software Update** page opens.
2. You can configure settings for **Online Software Update**.

Proxy Authentication

When using proxy server, enter **User Name** and **Password** for proxy authentication.

Certificate Settings

1. **Use Default Settings**: Select **On** or **Off**. When selecting Off, **Certificate Auto Verification** will be configured.
   Certificate Auto Verification: Select **Validity Period**, **Server Identity, Chain** or **Revocation** as the method to confirm the validity of certificate obtained from the server. You can use more than one option at a time.

Revocation Check Type: Select **OSCP**, **CRL**, or **CRL & OSCP** as the method to confirm the revocation of digital certificate.

2. **Hash**: Select a Hash algorithm of either **SHA1** or **SHA2(256/384)**. You can use more than one algorithm at a time.

3. Click **Submit** button.

11 Troubleshooting

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

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 in the 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.	*IP Filter (IPv4) on page 75* *IP Filter (IPv6) on page 76*
	Is **HTTP Security** in **Serverside Settings** of the **Security Settings** page under **Network Security** set to **Secure Only (HTTPS)**?	When **HTTP Security** is set to **Secure Only (HTTPS)**, specify a URL that begins with https://. You cannot access the embedded server with an “http://” URL.	*Network Security Settings on page 97*

Symptom	Check Items	Corrective Action	Reference
I can't access 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.	*System Requirements on page 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.	*System Requirements on page 1*
	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 4*
I can't access the other pages.	Is **User** set for the access level?	Change the access level to **Administrator**.	*Local User List on page 108*
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 finalized.	Did you click **Submit** button after making the settings?	Click **Submit** button and move to another page or close the embedded server window.	-
	Did you click **Restart** button after making the settings?	Restart this machine. All settings will be registered.	*Restart/ Reset on page 120*
	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*
Configured settings do not take effective.	Did you click **Restart Network** button when the message prompting restart the machine or network appear after setting?	Click the Restart Network button after configuring the settings. Only the related network service will restart.	-

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