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# EPSON AcuLaser CX28 Series Reference Guide

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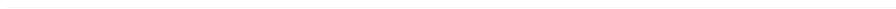
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***Operation on  
Mac OS X***

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**1**

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# System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer installed with the following processor: <ul style="list-style-type: none"><li>– PowerPC G3 or later processor (PowerPC G4 or later is recommended)</li><li>– Intel processor</li></ul>
Connecting the computer and printer	USB connection, Network connection (10Base-T/100Base-TX/1000Base-T)
Operating system	Mac OS X 10.2.8 or later
RAM	128 MB or more
Available disk space	256 MB or more (for storing images)
Supported languages	English, French, German, Italian, Spanish, Portuguese, Czech, Korean, Simplified Chinese, Traditional Chinese

# Installing the Printer Driver



You must have administrator privileges in order to install the printer driver.



Before proceeding with the installation, be sure to exit all running applications.

## Installing the Printer Driver



The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.

- 1 Insert the software CD-ROM in the CD-ROM drive of your Macintosh.
- 2 Double-click the CD icon on the desktop, Mac folder, Printer Driver folder, CX28\_Mac103104 folder and then double-click the **CX28 OSX Installer\_103104.pkg**.

The installer for the printer driver starts up.

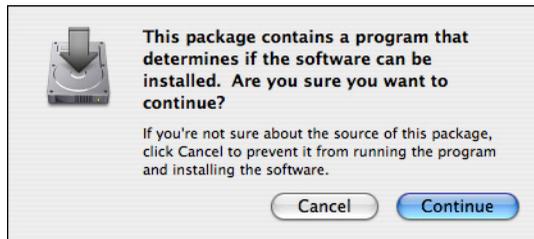


When using Mac OS X 10.5, double-click the **CX28 OSX Installer\_105.pkg**.

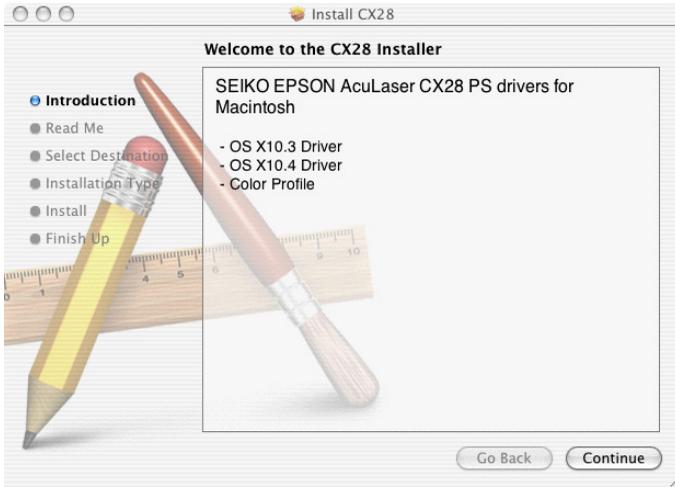


When using Mac OS X 10.2, double-click the **CX28 OSX Installer\_102.pkg**.

- 3 Click **Continue**.



4 Click **Continue**.



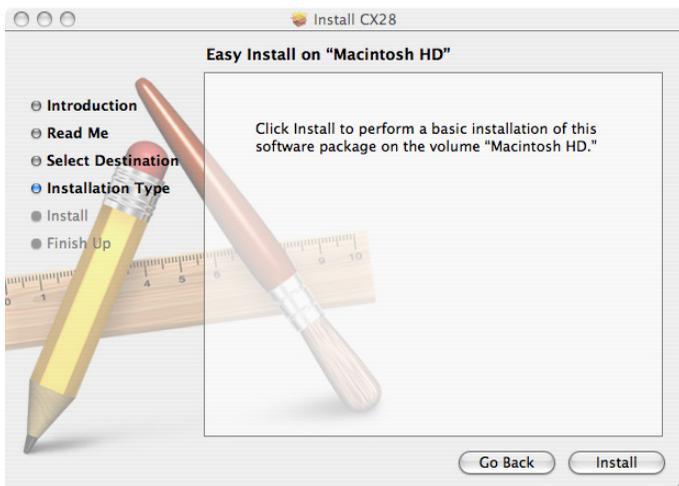
5 Click **Continue**.



- 6 In the **Select a Destination** page, select the disk in which you wish to install the software, and then click **Continue**.



- 7 Click **Install** in the **Easy Install** page.

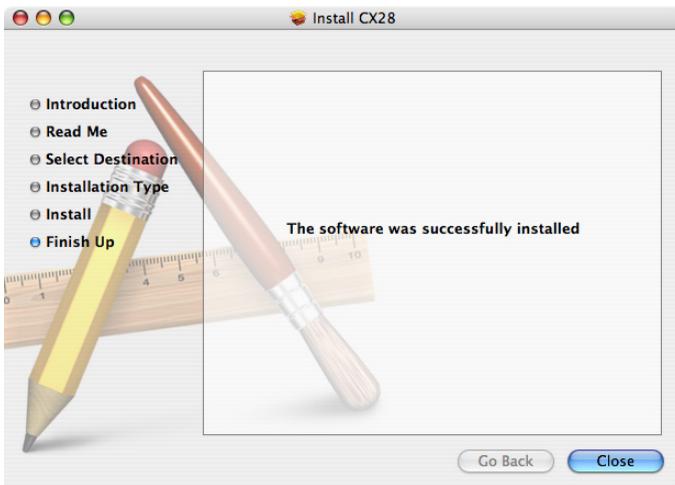


- 8 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



*Installation starts.*

- 9 After the installation has been completed, click **Close**.



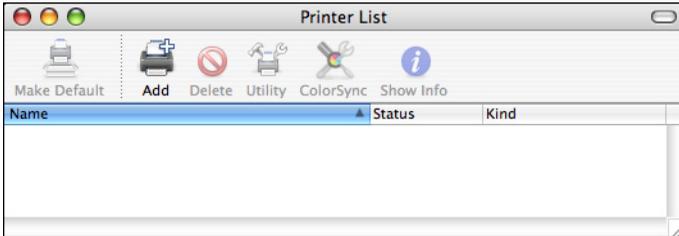
*This completes the installation of the printer driver.*

# Printer Setup Utility Settings

 This function is not supported by Mac OS X 10.5.

## When Using a USB Connection

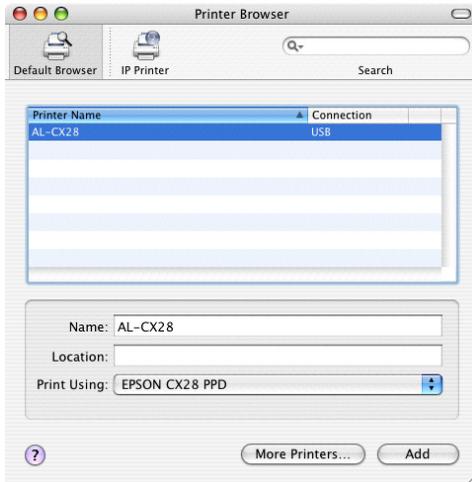
- 1 Use a USB cable to connect the machine to your computer.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Macintosh HD, then **Applications**, then **Utilities**.
- 3 In the **Printer List**, click **Add**.



The detected printer appears in the **Printer Browser**.



#### 4 Select **AL-CX28** in the **Printer Name**.

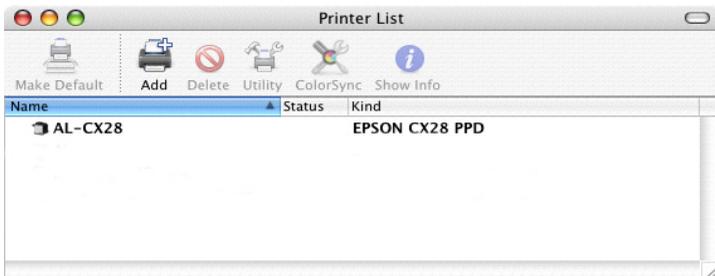


 If **AL-CX28** does not appear, check that the machine is turned on and the USB cable is connected, and then restart the computer.

#### 5 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.

#### 6 Click **Add**.

The new printer appears in the **Printer List** screen.



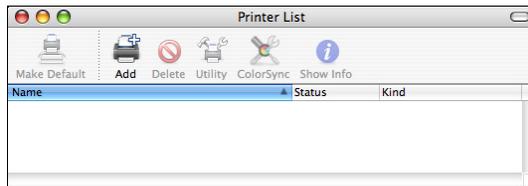
 If any options are installed, select them. For details, refer to "Selecting Print Options" on page 32.

## When Using a Network Connection

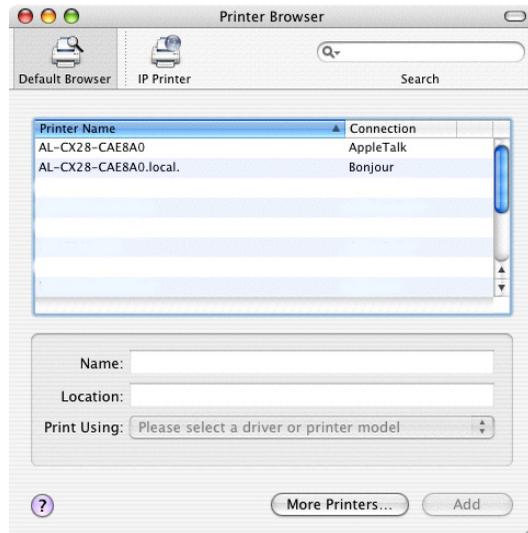
The network connection settings can be specified in one of three ways: Bonjour Setting, AppleTalk Setting and IP printing Setting (IPP, LPD or Socket).

### Bonjour Setting

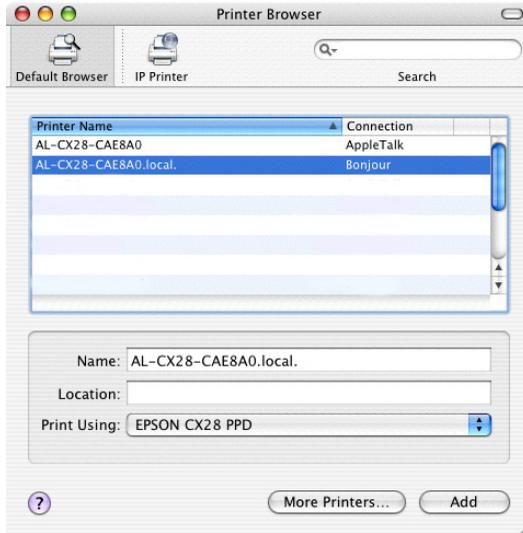
- 1 Connect the machine to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Startup Disk, then **Applications**, then **Utilities**.
- 3 In the **Printer List**, click **Add**.



The detected printer appears in the **Printer Browser**.



- 4 Select **AL-CX28-xxxxxx.local** in the **Printer Browser**.



*“xxxxxx” refers to the last six digits of the MAC address (in hexadecimal).*

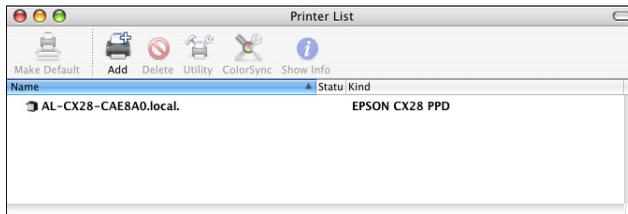
- 5 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.
- 6 Click **Add**.

- 7 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.



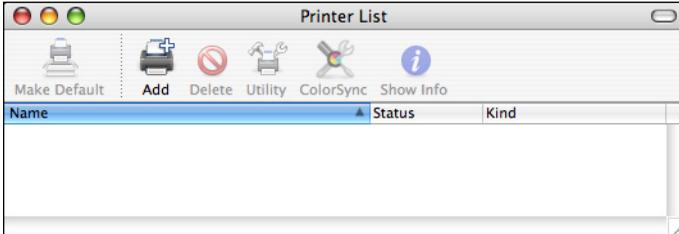
- 8 Click **Continue**.

*The new printer appears in the **Printer List** screen.*

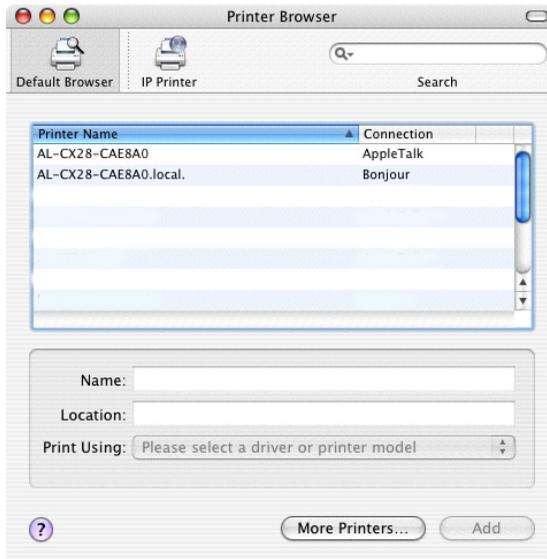


## AppleTalk Setting

- 1 Connect the machine to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Startup Disk, then **Applications**, then **Utilities**.
- 3 Click **Add** in the **Printer List**.



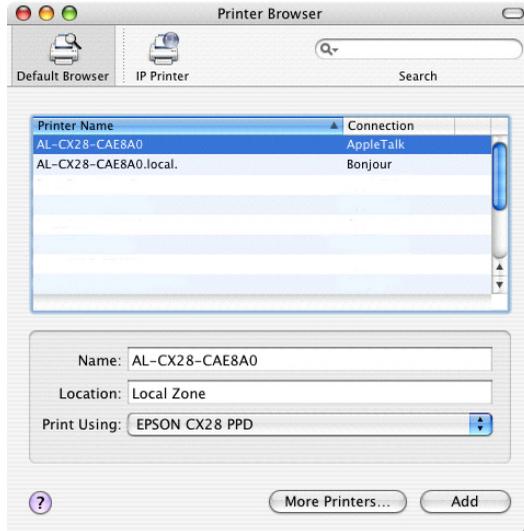
The detected printer appears in the **Printer Browser**.



Do not select **EPSON AppleTalk** or **EPSON TCP/IP** using the **More Printers** button. This blocks communication between your computer and printer via a network and prevents the printer from being found.

4 Select **AL-CX28-xxxxxx** in the **Printer Name** list.

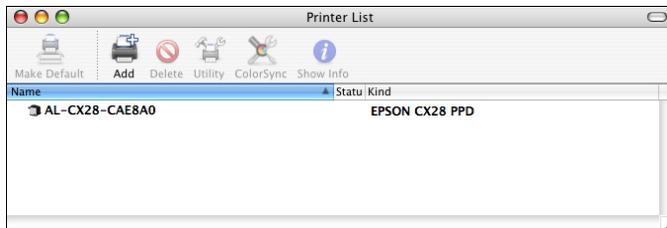
 "xxxxxx" refers to the last six digits of the MAC address (in hexadecimal).



5 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.

6 Click **Add**.

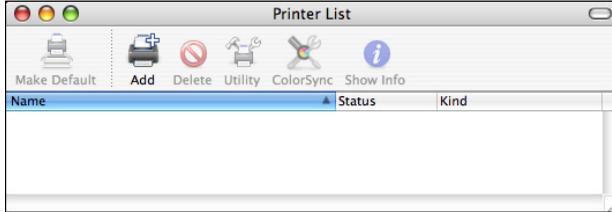
The new printer appears in the **Printer List** screen.



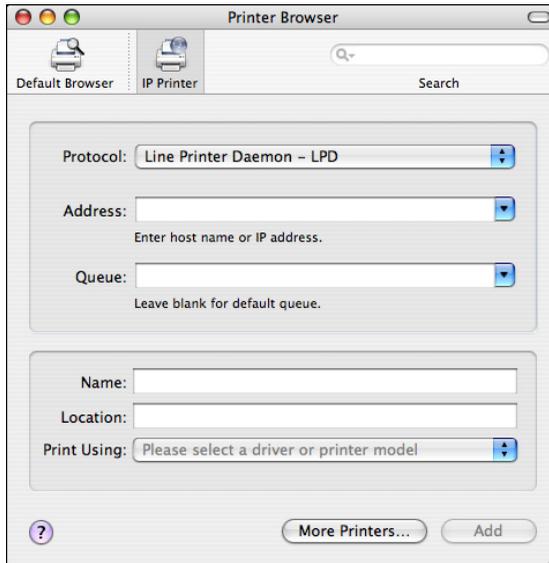
 If any options are installed, select them. For details, refer to "Selecting Print Options" on page 32.

## IP Printing Setting

- 1 Connect the machine to an Ethernet network.
- 2 Open **Printer Setup Utility**, which can be accessed by clicking Startup Disk, then **Applications**, then **Utilities**.
- 3 Click **Add** in the **Printer List**.



- 4 Click **IP Printer**.



- 5 Select desired print protocol from the **Protocol** pop-up menu.

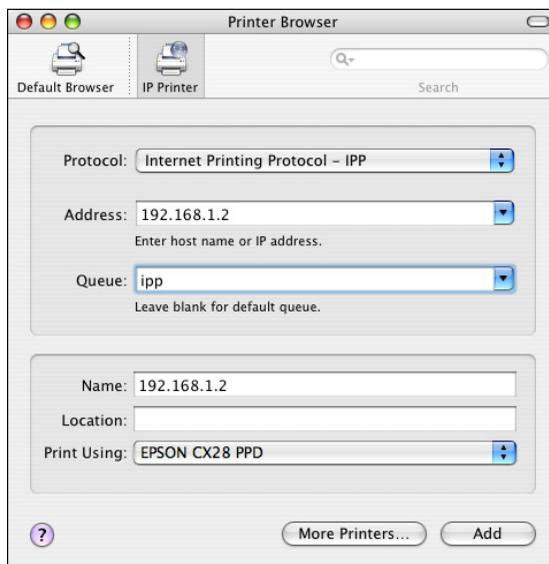


- For an IPP setup, select **Internet Printing Protocol - IPP**.
- For an LPD setup, select **Line Printer Daemon - LPD**.
- For a port 9100 setup, select **HP Jet Direct - Socket**.



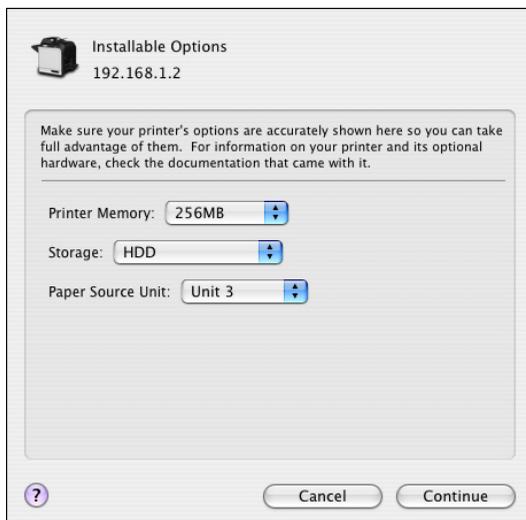
Do not select **EPSON AppleTalk** or **EPSON TCP/IP** using the **More Printers** button. This blocks communication between your computer and printer via a network and prevents the printer from being found.

- 6 Enter the IP address for the machine in the **Address** text box.



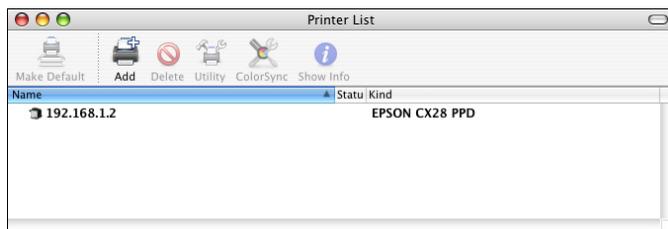
-  - For an LPD setup, type "lp" in the **Queue** text box.  
- For an IPP setup, type "ipp" in the **Queue** text box.
- 7 Select **EPSON CX28 PPD** in the **Print Using** list.
- 8 Click **Add**.

- 9 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.



- 10 Click **Continue**.

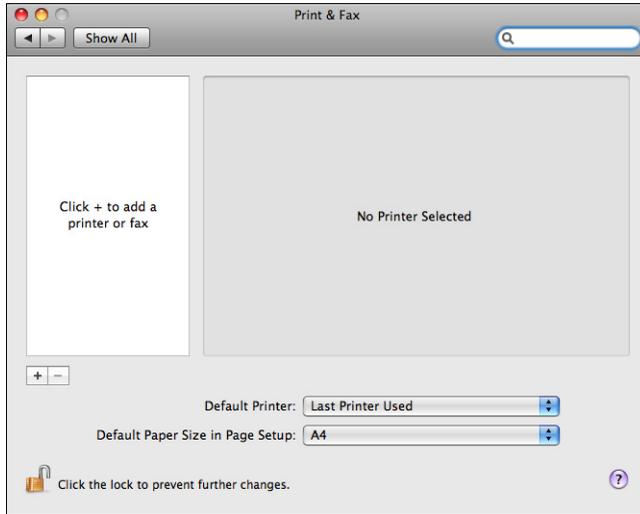
*The new printer appears in the **Printer List** screen.*



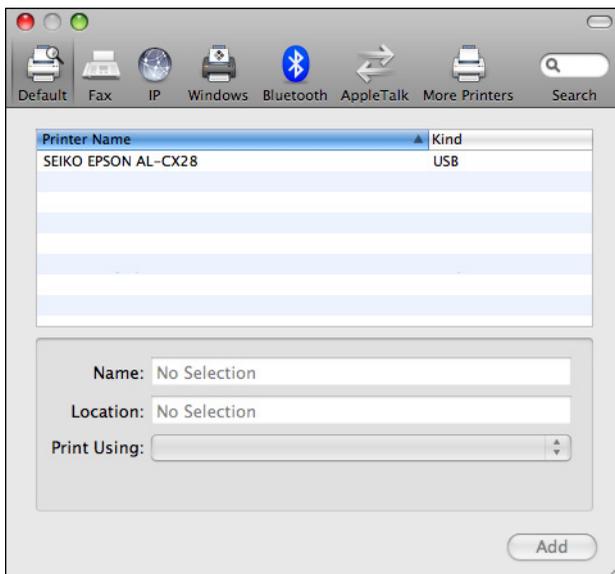
# Printer Settings (Mac OS X 10.5)

## When Using a USB Connection

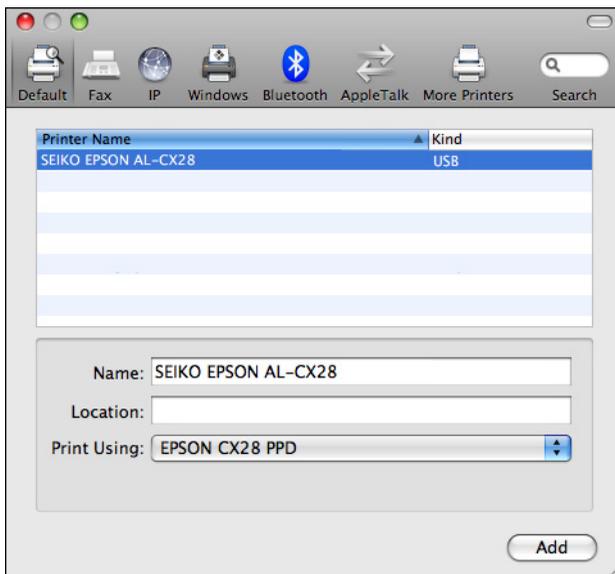
- 1 Use a USB cable to connect the printer to your computer.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



The detected printer appears in the Printer Browser.



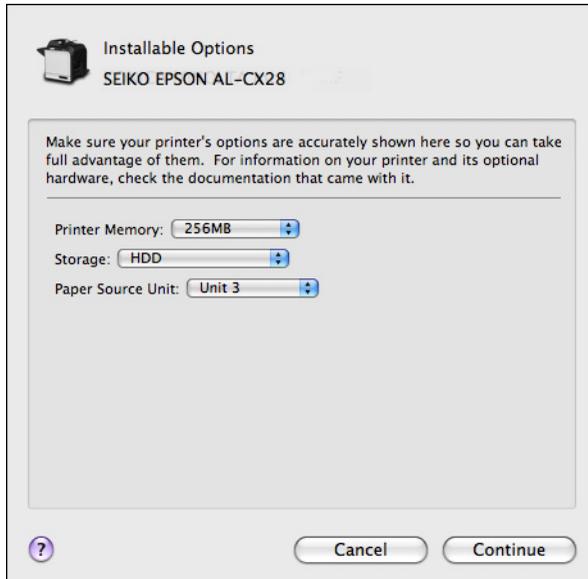
**5** Select **SEIKO EPSON AL-CX28** in the **Printer Name** list.





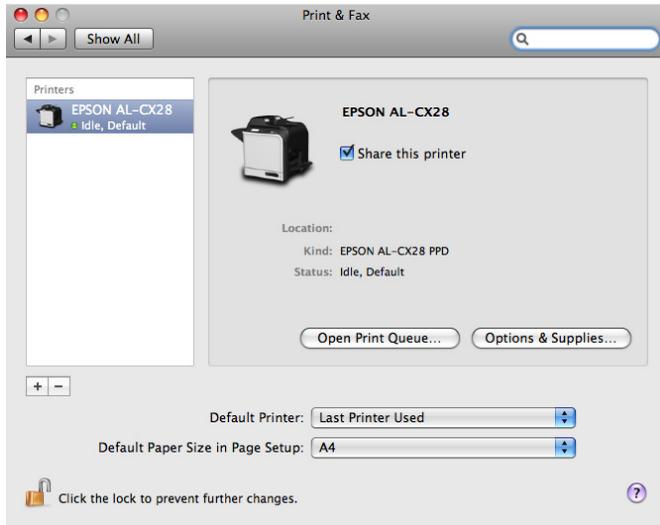
If **SEIKO EPSON AL-CX28** does not appear, check that the printer is turned on and the USB cable is connected, and then restart the computer.

- 6 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.
- 7 Click **Add**.
- 8 Select the appropriate settings in the **Printer Memory**, **Storage**, and **Paper Source Unit** according to your printer setup.



9 Click **Continue**.

The new printer appears in the **Print & Fax** screen.

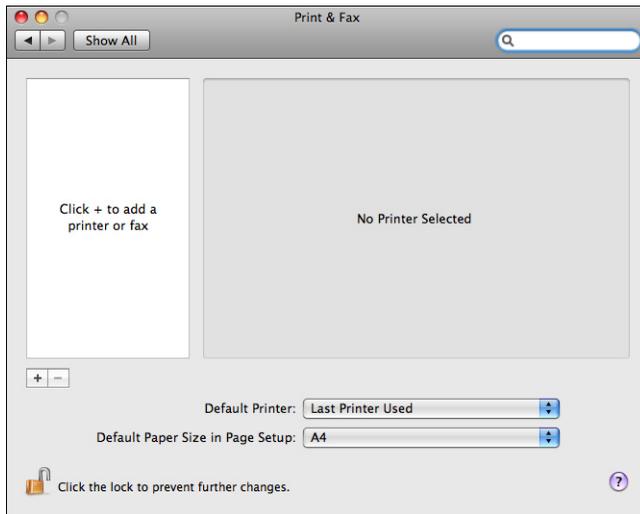


## When Using a Network Connection

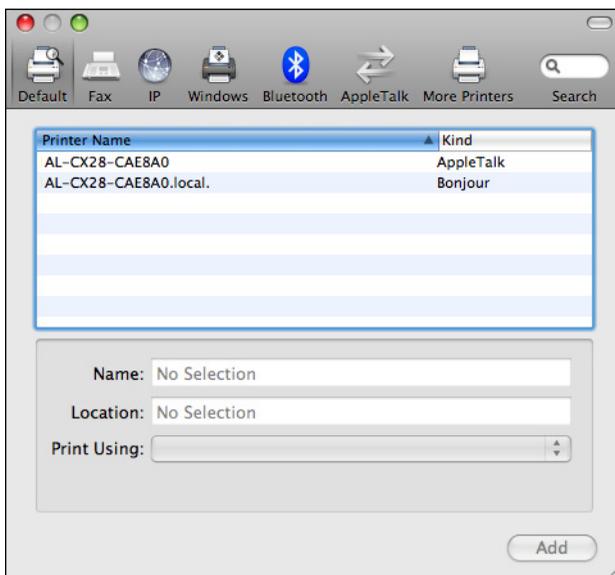
The network connection settings can be specified in one of three ways: Bonjour Setting, AppleTalk Setting and IP printing Setting (IPP, LPD or Socket).

### Bonjour Setting

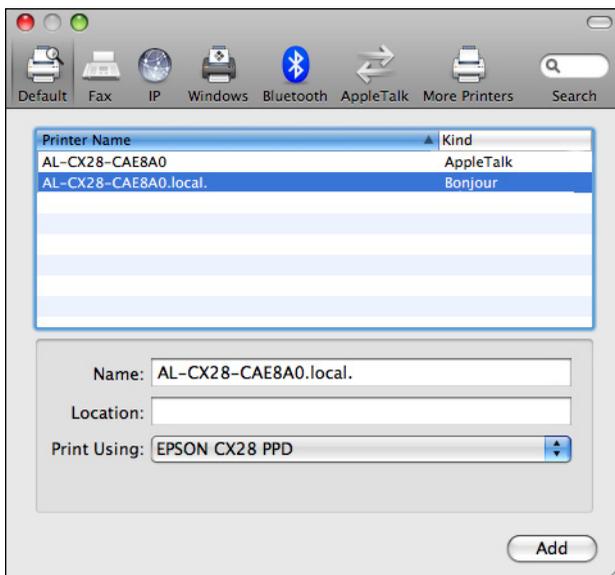
- 1 Connect the machine to an Ethernet network.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



The detected printer appears in the Printer Browser.

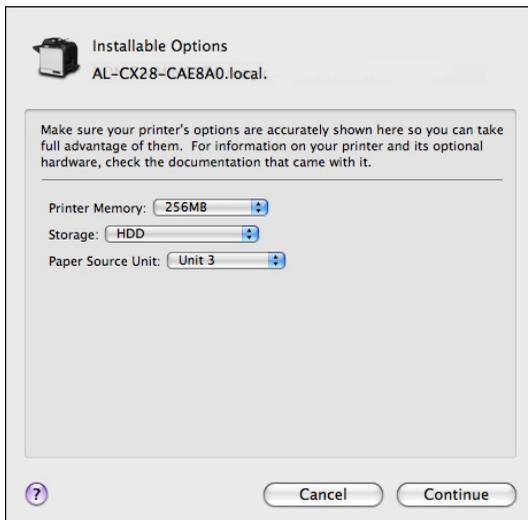


5 Select **AL-CX28-xxxxxx.local** in the **Printer Name** list.



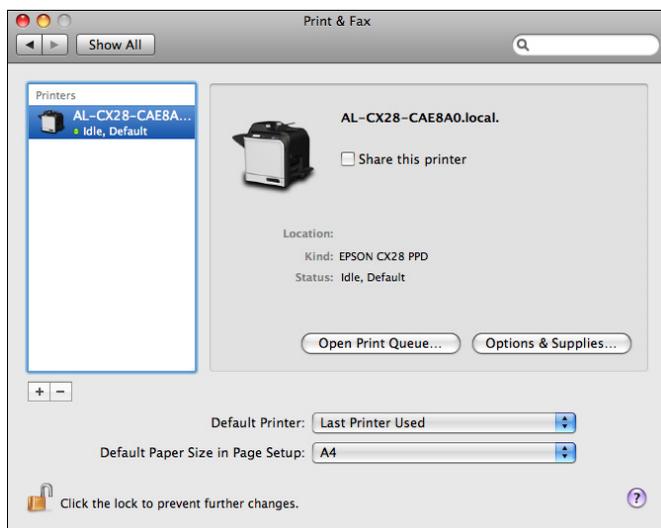
“xxxxxx” refers to the last six digits of the MAC address (in hexadecimal).

- 6 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.
- 7 Click **Add**.
- 8 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.



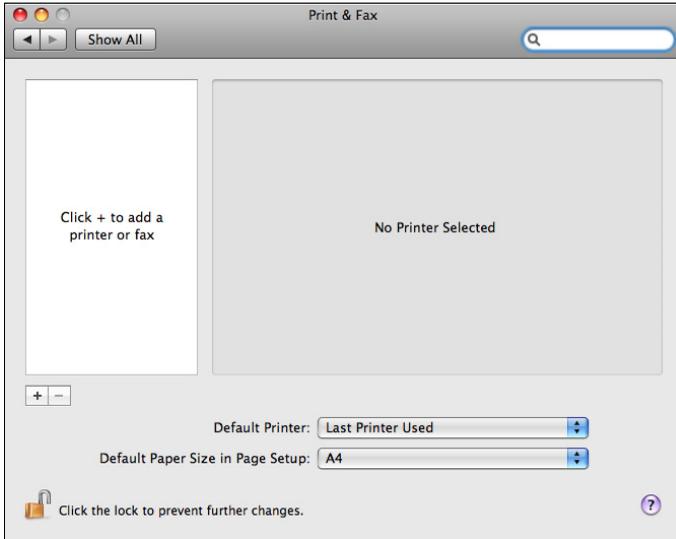
- 9 Click **Continue**.

*The new printer appears in the **Print & Fax** screen.*

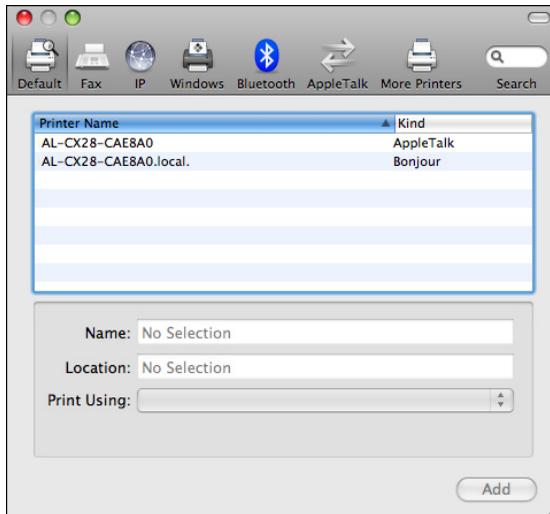


## AppleTalk Setting

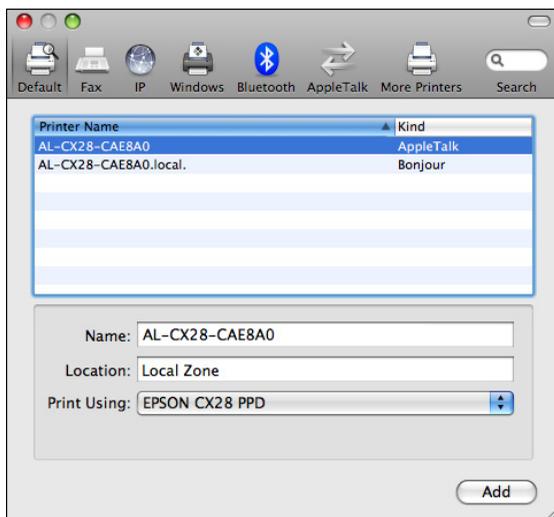
- 1 Connect the machine to an Ethernet network.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



*The detected printer appears in the Printer Browser.*



5 Select **AL-CX28-xxxxxx** in the **Printer Name** list.



“xxxxxx” refers to the last six digits of the MAC address (in hexadecimal).

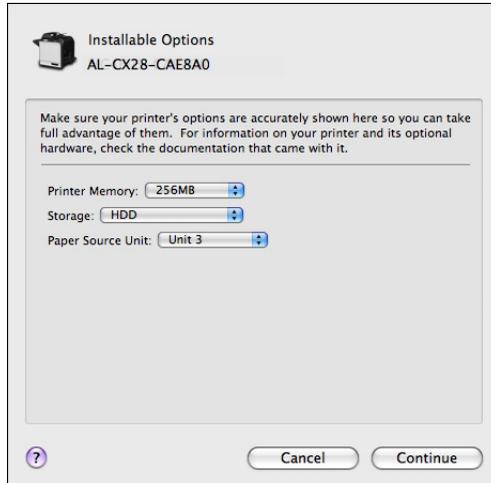


Do not select **EPSON AppleTalk** or **EPSON TCP/IP** using the **More Printers** button. This blocks communication between your computer and printer via a network and prevents the printer from being found.

6 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.

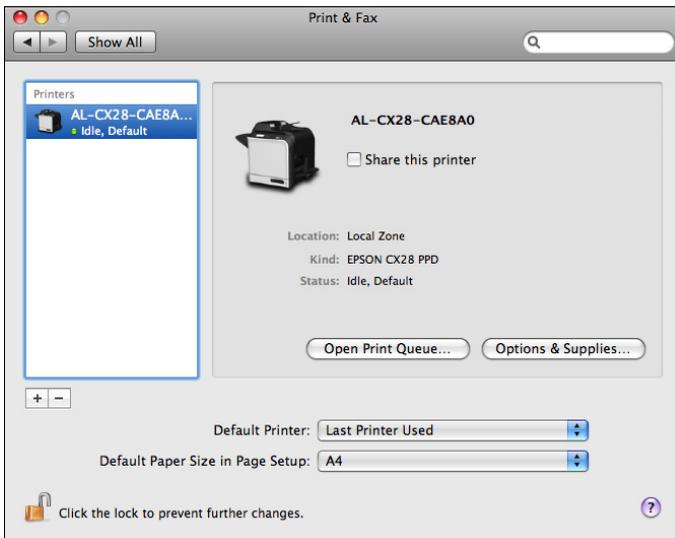
7 Click **Add**.

- 8 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.



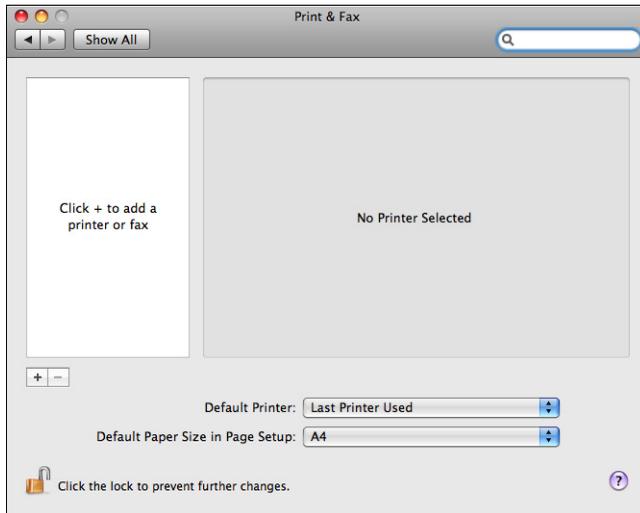
- 9 Click **Continue**.

*The new printer appears in the **Printer List** screen.*

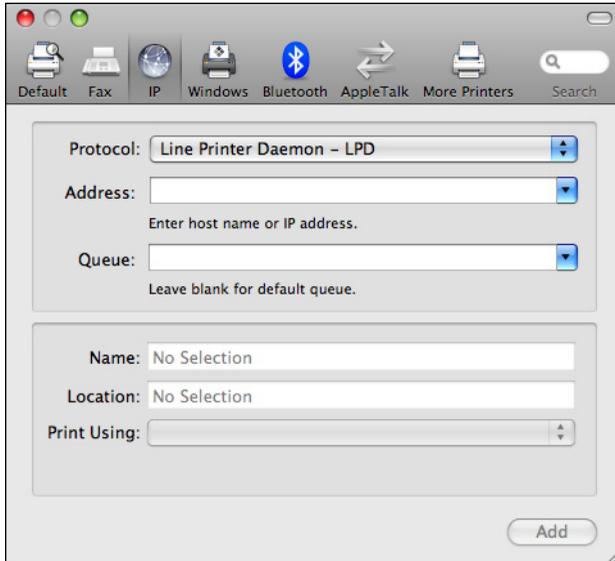


## IP Printing Setting

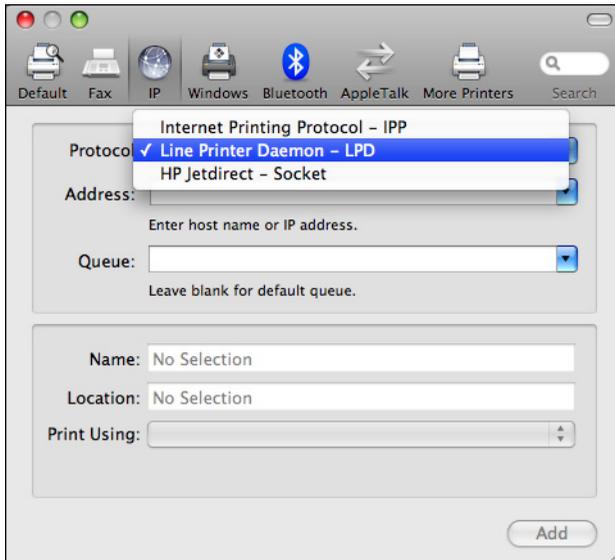
- 1 Connect the machine to an Ethernet network.
- 2 Select **System Preference** from the Apple menu.
- 3 Click **Print & Fax**.
- 4 In the **Print & Fax**, click + button.



## 5 Click IP.



## 6 Select desired print protocol from the **Protocol** pop-up menu.



- For an IPP setup, select **Internet Printing Protocol - IPP**.
- For an LPD setup, select **Line Printer Daemon - LPD**.
- For a port 9100 setup, select **HP Jetdirect - Socket**.

- 7 Enter the IP address for the machine in the **Address** text box.

The screenshot shows a Mac OS X printer setup window. At the top, there are icons for Default, Fax, IP, Windows, Bluetooth, AppleTalk, and More Printers. The 'IP' tab is selected. Below the tabs, there are several fields: 'Protocol' is a dropdown menu set to 'Line Printer Daemon - LPD'; 'Address' is a text field containing '192.168.1.2' with a dropdown arrow on the right and the text 'Valid and complete address.' below it; 'Queue' is a text field containing 'lp' with a dropdown arrow on the right and the text 'Leave blank for default queue.' below it; 'Name' is a text field containing '192.168.1.2'; 'Location' is an empty text field; 'Print Using' is a dropdown menu set to 'EPSON CX28 PPD'. At the bottom right, there is an 'Add' button.



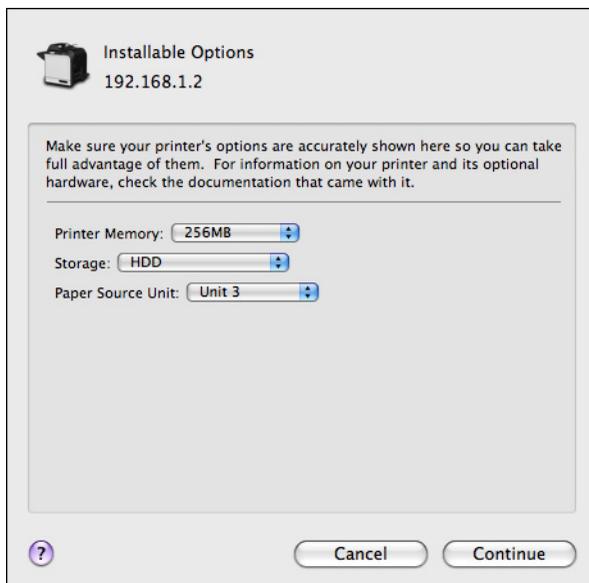
- For an LPD setup, type "lp" in the **Queue** text box.
- For an IPP setup, type "ipp" in the **Queue** text box.



Do not select **EPSON AppleTalk** or **EPSON TCP/IP** using the **More Printers** button. This blocks communication between your computer and printer via a network and prevents the printer from being found.

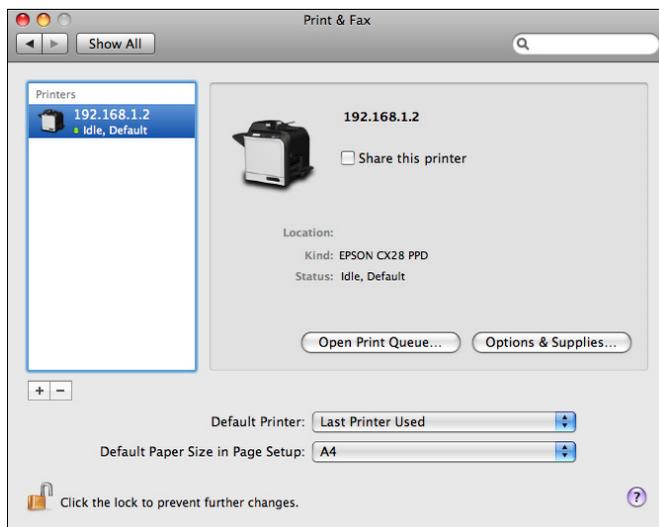
- 8 Check that **EPSON CX28 PPD** is selected in the **Print Using** list.
- 9 Click **Add**.

- 10 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.



- 11 Click **Continue**.

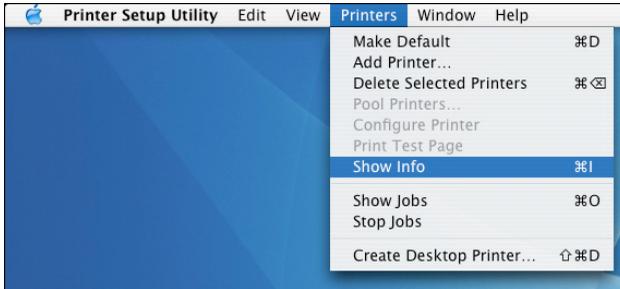
*The new printer appears in the **Print & Fax** screen.*



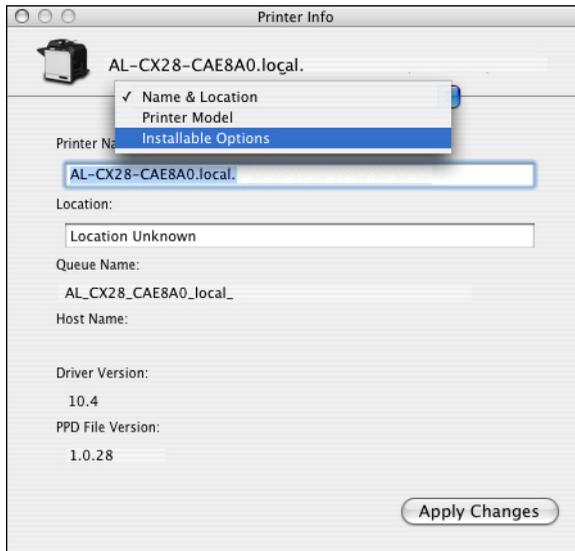
# Selecting Print Options

## For Mac OS X 10.2/10.3/10.4

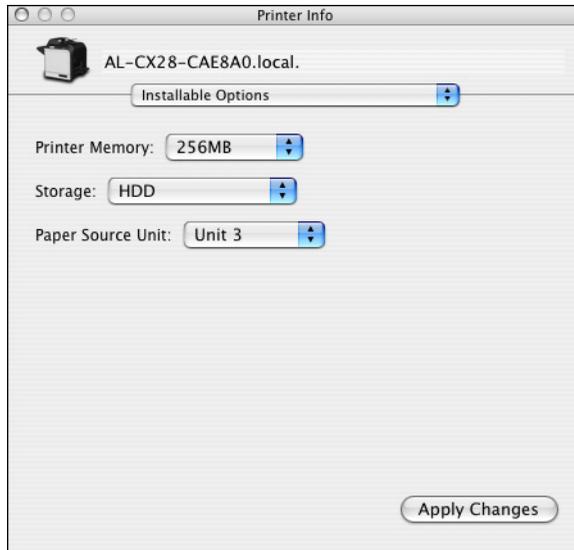
- 1 Open **Printer Setup Utility (Print Center)**, which can be accessed by clicking Startup disk, then **Applications**, then **Utilities**.
- 2 Select this printer in the **Printer List**, and then select **Show Info** from the **Printers** menu.



- 3 Select **Installable Options** from the pop-up menu.



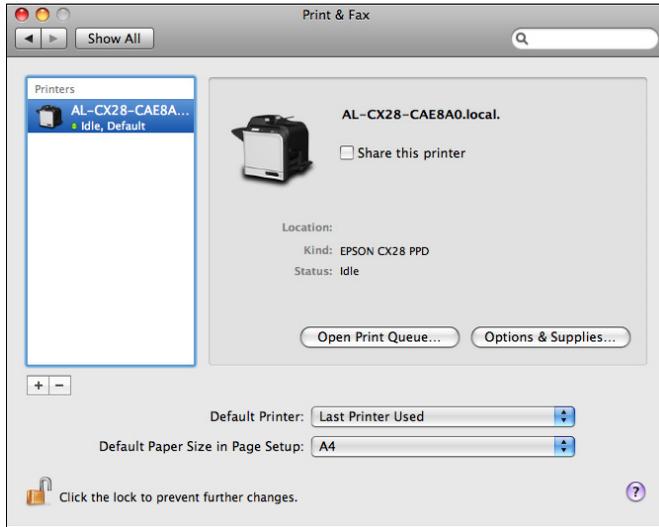
- 4 Select the appropriate settings in the **Printer Memory**, **Storage**, and **Paper Source Unit** according to your printer setup.



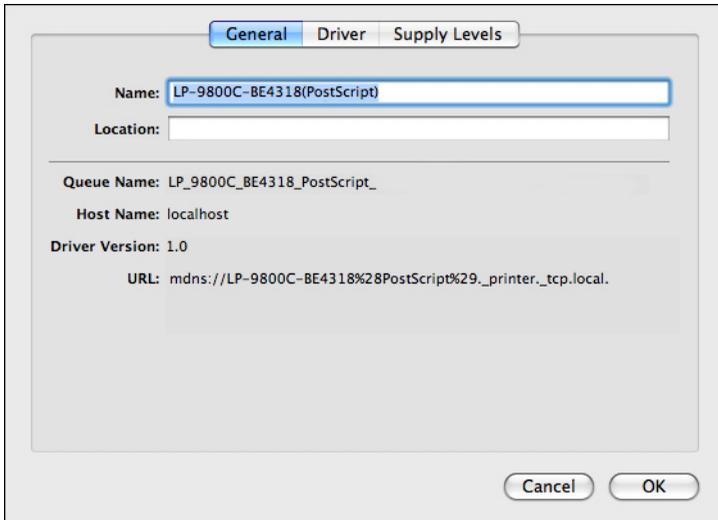
- 5 Click **Apply Changes**.
- 6 Close the **Printer Info** dialog box.

## For Mac OS X 10.5

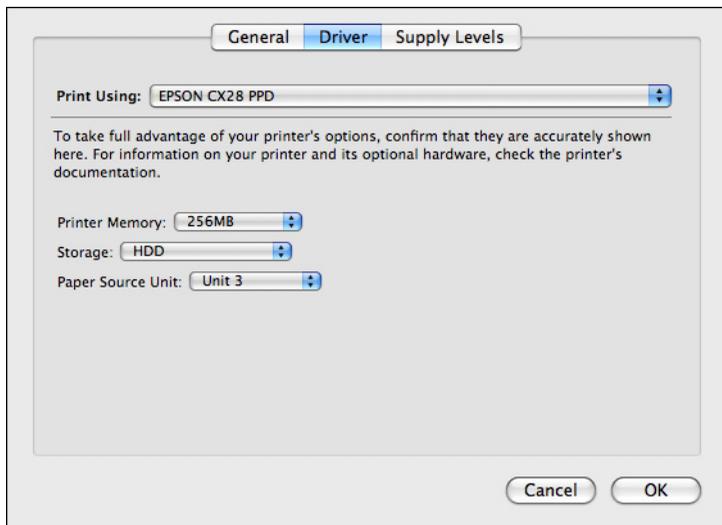
- 1 Select **System Preference** from the Apple menu.
- 2 Click **Print & Fax**.
- 3 Select this printer in the **Printers List**, and then click **Options & Supplies**.



- 4 Select **Driver**.



- 5 Select the appropriate settings in the **Printer Memory, Storage, and Paper Source Unit** according to your printer setup.

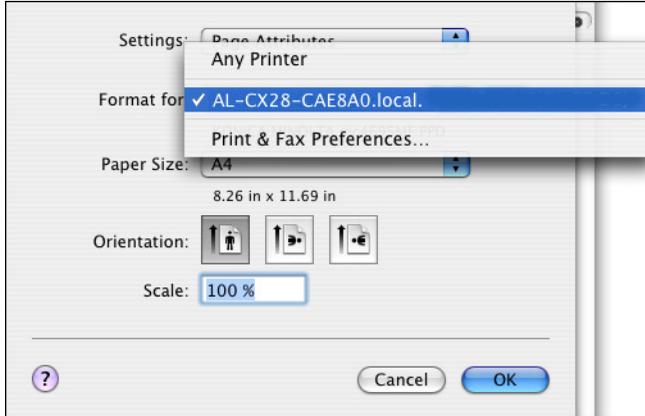


- 6 Click **OK**.
- 7 Close the **Print & Fax** screen.

# Specifying Page Setup Settings

The following dialog box appears when **Page Setup...** is selected from the **File** menu in the application being used.

- 1 Select **Page Setup...** from the **File** menu.  
The **Page Setup** dialog box appears.
- 2 Select this printer in the **Format for** pop-up menu.

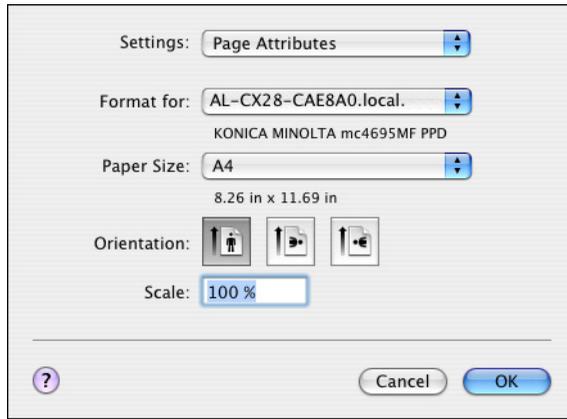


You can select the following sections from the **Settings** pop-up menu.

Section	Description
Page Attributes	This is used to specify the settings for the paper size, scaling, and print orientation.
Save As Default	This is used to save the new settings as the defaults.

## Page Attributes Options

The **Page Attributes** section is used to specify the settings for the paper size, scaling, and print orientation.



- **Paper Size**  
Select the desired paper size from the Paper Size pop-up menu.
- **Orientation**  
Select either a vertical or horizontal page orientation for printouts.
- **Scale**  
If you want to enlarge or reduce the size of the printout, enter the scale ratio here (25-400%).

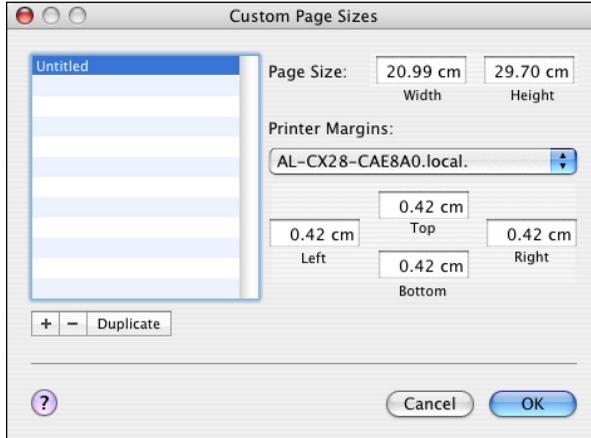


*Regardless of which paper size is selected, the machine does not print within 0.165" (4.2 mm) of the edge of the paper.*

## Specifying Custom Paper Size

You can also specify a paper size that is not listed in the **Paper Size** pop-up menu.

- 1 Select **Manage Custom Sizes** from the pop-up menu, in the **Page Setup** dialog box. The **Custom Page Sizes** dialog box appears.



- +  
Click this button to create a new custom page size.
- -  
Click this button to delete a custom page size.
- Duplicate  
Click this button to duplicate (copy) the settings of an existing custom page size and create a new custom page size based on those settings.
- Page Size  
Enter the dimensions of the paper height and width for the custom page size.  
**Height:** 5.8 - 14.0" (148 - 356 mm)  
**Width:** 3.6 - 8.5" (92 - 216 mm)
- Printer Margins  
Select the printer from the pop-up menu, and then enter the dimensions for the top, left, right, and bottom margins.

- 2 After you have finished entering the settings, click **OK**.



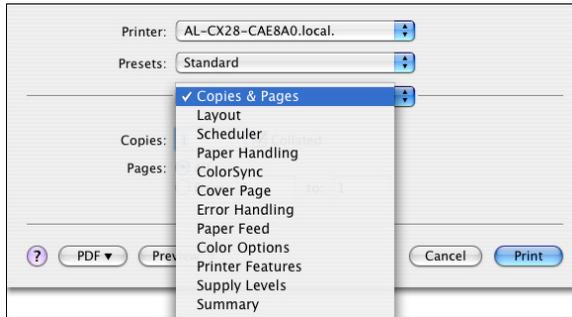
*Regardless of which paper is selected, the printer does not print within 0.165" (4.2 mm) of the edge of the paper.*

# Specifying Print Settings (Mac OS X 10.4)

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.

- 1 Select **Print...** from the **File** menu.  
The **Print** dialog box appears.
- 2 Select this printer in the **Printer** pop-up menu.  
The Print dialog box is used to specify the following print options.

## Print Dialog Box



Section	Description
Copies & Pages	This section contains options for the number of copies to be printed and the range of pages to print.
Layout	This section contains options for specifying the page layout when printing and the setting for double-sided printing.
Scheduler	This section contains options for specifying the print timing and priority of jobs.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
ColorSync	This section contains options for specifying ColorSync settings.
Cover Page	This section contains options for specifying cover page settings.
Error Handling	This section contains options for specifying how an error is reported.
Paper Feed	This section contains paper feed options.

Section	Description
Color Options	This section contains options for color printing.
Printer Features	This section contains options for specifying whether or not paper of the nearest size is automatically detected when no paper tray is loaded with paper of the same size as the document and for specifying how the back of the paper is printed.
Supply Levels	This section provides information for checking the amount of service life remaining on each consumable.
Summary	This is used to check the current settings.



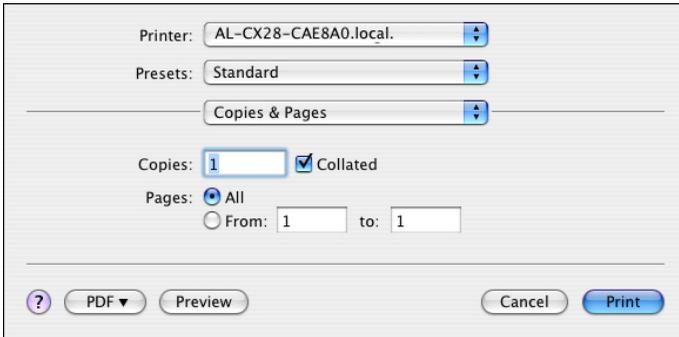
*No warning message will be displayed if options cannot be used together are selected.*

## Common buttons

- ? (Help button)  
This displays help information about the Print dialog box.
- PDF  
Click this button to select the PDF menu. The print output can be saved as a PDF file.
- Preview  
Click this button to view a preview image of the printout, to check that the print options are set correctly.
- Cancel  
Click this button to close the Print dialog box without applying any of the settings.
- Print  
Click this button to print using the selected print options.

## Copies & Pages

The **Copies & Pages** section is used to specify the number of copies to print and the range of pages to print.



Printer: AL-CX28-CAE8A0.local.

Presets: Standard

Copies & Pages

Copies: 1  Collated

Pages:  All  
 From: 1 to: 1

? PDF Preview Cancel Print

### ■ Copies

This specifies the number of copies to be printed. If the **Collated** checkbox is selected, all pages in the documents are printed as sets of print-outs.

For example, if 5 is entered for **Copies** and **Collated** is selected, the document is printed five times from the first page to the last page.



*In order to use the collate function, an optional hard disk drive must be installed. If a collate function is provided with the application, the setting specified from the application is given priority, and the setting specified in the printer driver is ignored.*

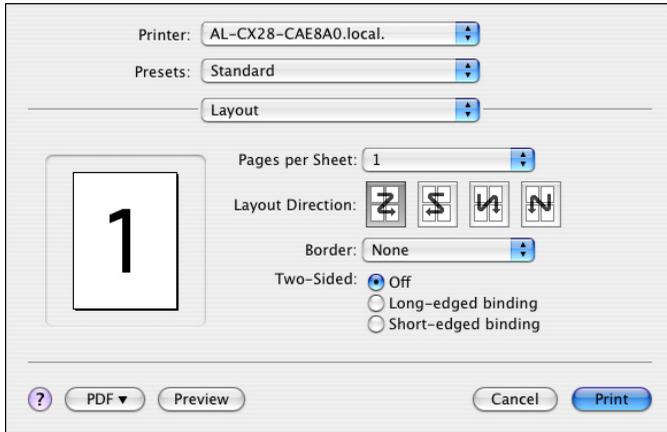
### ■ Pages

**All:** Prints all pages in the document.

**From, to:** Specifies the range of pages to be printed.

## Layout

The **Layout** section is used to specify the page layout when printing and the setting for double-sided printing.



- **Pages per Sheet**

Specifies the number of pages to be printed on one sheet of paper. For example, if **2** is selected, two pages are printed on one sheet of paper.

- **Layout Direction**

If you are printing more than one page per sheet, this specifies the direction and order the pages should be arranged on each sheet of paper.

- **Border**

This prints a border around the image for each of the pages printed on one sheet of paper when more than one page is printed on one sheet of paper.

- **Two-Sided**

Select the desired setting for double-sided printing.

**Off:** Double-sided printing is not performed.

**Long-edged binding:** Double-sided printing is performed with the binding along the long edge of the paper.

**Short-edged binding:** Double-sided printing is performed with the binding along the short edge of the paper.

## Scheduler

The **Scheduler** section is used to specify the timing and priority for printing jobs.



The screenshot shows a 'Scheduler' dialog box with the following settings:

- Printer: AL-CX28-CAE8A0.local.
- Presets: Standard
- Scheduler: Scheduler
- Print Document:  Now,  At (9:00 AM),  On Hold
- Priority: Medium

At the bottom, there are buttons for a help icon (?), PDF, Preview, Cancel, and Print.

### ■ Print Document

**Now:** Select this option to begin printing immediately.

**At:** Specify the time to begin printing.

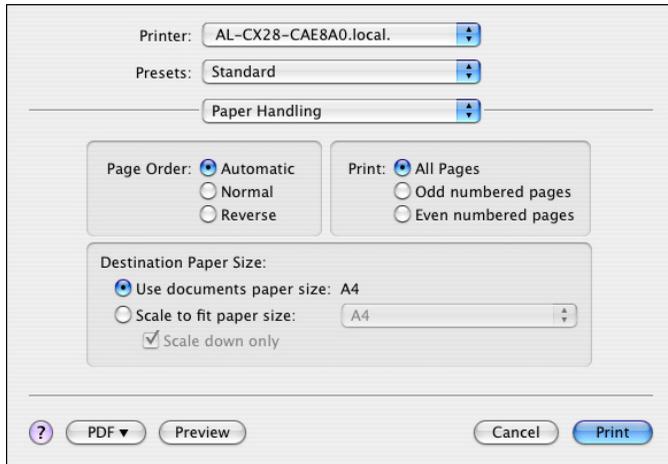
**On Hold:** Select this option to hold the print job.

### ■ Priority

Select the priority for printing jobs that are being held.

## Paper Handling

The **Paper Handling** section is used to specify the pages that are to be printed and the order in which the pages are printed.



### ■ Page Order

**Automatic:** Select this option to print in the original page order of the document.

**Normal:** Select this option to print in the normal page order.

**Reverse:** Select this option to print in the reverse page order.

### ■ Print

**All Pages:** Select this option to print all pages.

**Odd numbered pages:** Select this option to print only the pages with odd page numbers.

**Even numbered pages:** Select this option to print only the pages with even page numbers.

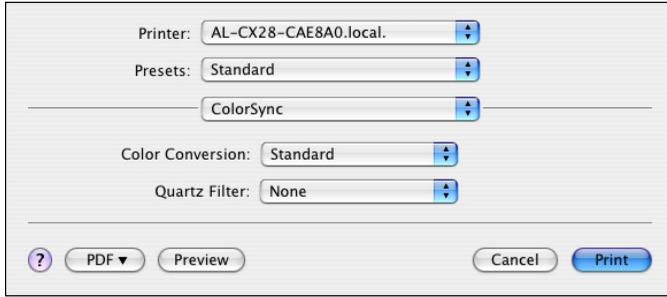
### ■ Destination Paper Size

**Use documents paper size:** Select this option to use the document size as created by software applications.

**Scale to fit paper size:** Select this option to fit the document size to the size of paper used by the machine. Specify the size of paper used by the machine.

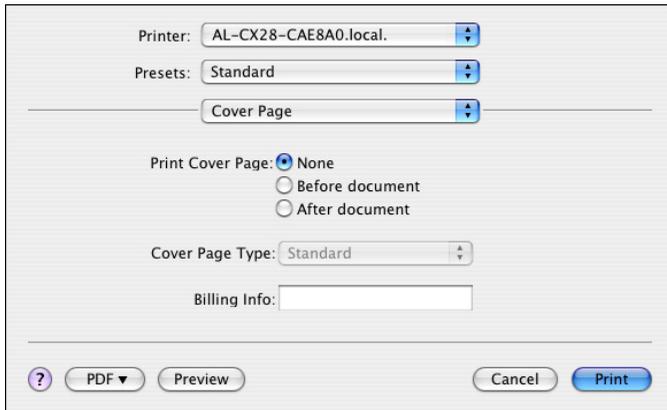
**Scale down only:** Select this option to reduce the printing size.

## ColorSync



- **Color Conversion**  
Allows you to select host-based color matching or printer-based color matching.
- **Quartz Filter**  
Allows you to select Quartz Filter.

## Cover Page



- **Print Cover Page**  
Allows you to set cover page before or after document.
- **Cover Page Type**  
Allows you to select cover page type.
- **Billing Info**  
Allows you to set billing information printed on cover page.

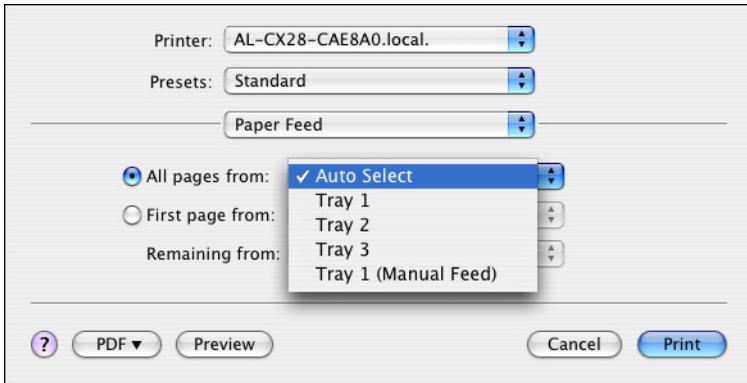
# Error Handling



- **PostScript Errors**  
Allows you to select whether or not a report is outputted when a Post-Script error occurs.
- **Tray Switching**  
This feature is not available with this printer.

## Paper Feed

The **Paper Feed** section is used to specify the paper feed setting.

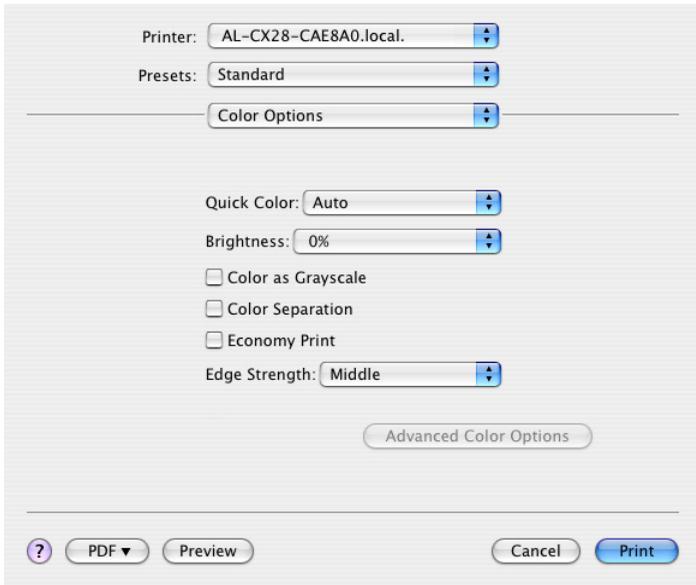


- **All pages from**  
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**  
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**  
The rest of the document is printed from the specified paper tray when the first page is to be printed on paper from a different tray.



*If an optional lower feeder unit is installed, select **Unit 3** under **Installable Options** (p. 32).*

## Color Options

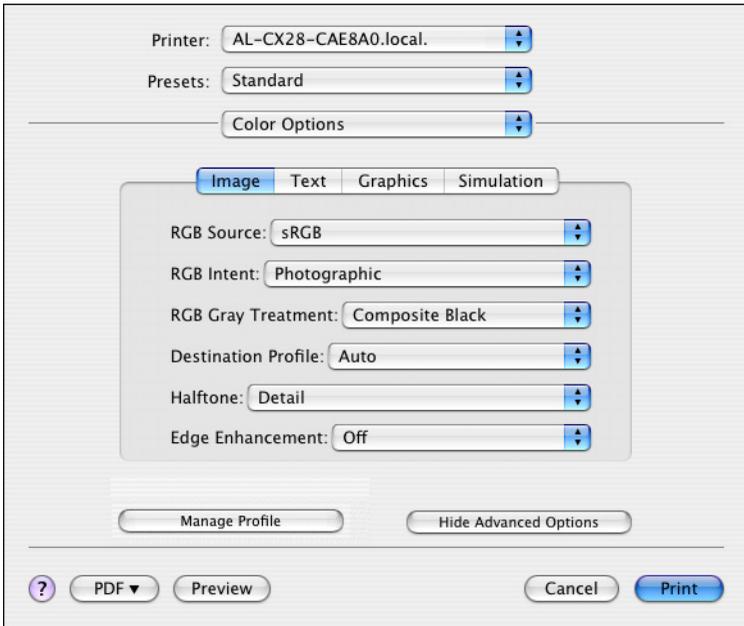


- **Quick Color**  
Allows you to select a color preset.
- **Brightness**  
Allows you to set Brightness.
- **Color as Grayscale**  
Allows you to set Grayscale color.
- **Color Separation**  
Allows you to set Color Separation.
- **Economy Print**  
Allows you to set Economy Print Mode.
- **Edge Strength**  
Allows you to select Edge Strength.
- **Advanced Color Options**  
Click this button to display the **Advanced Color Options** pane.



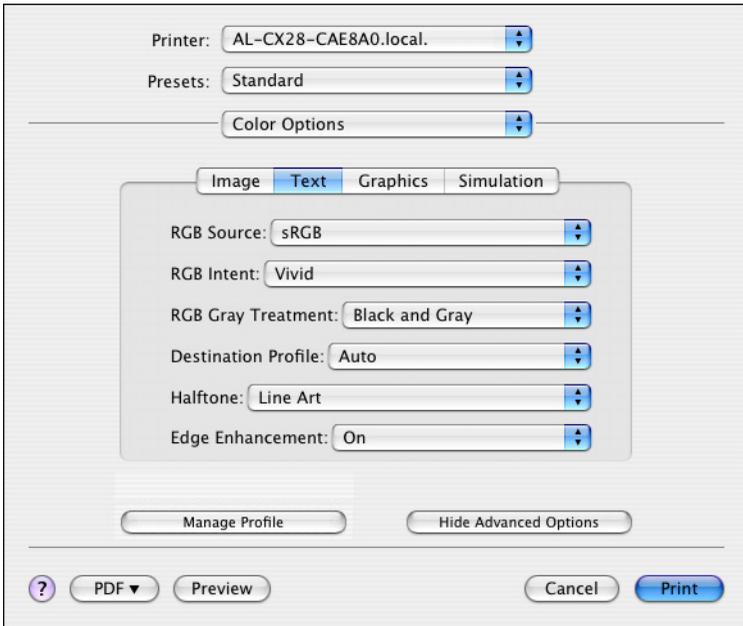
*This button enables when **Custom** is selected under **Quick Color**.*

## Advanced Color Options/Image



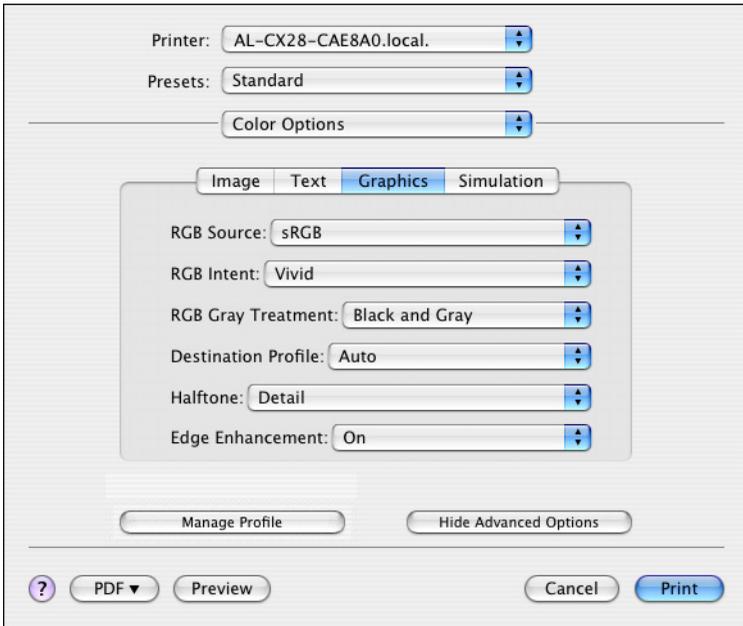
- **RGB Source**  
Allows you to select RGB color profiles for images.
- **RGB Intent**  
Allows you to select color intent for RGB images.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for images.
- **Destination Profile**  
Allows you to select Destination Profile for images.
- **Halftone**  
Allows you to select halftone for images.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for images.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Text



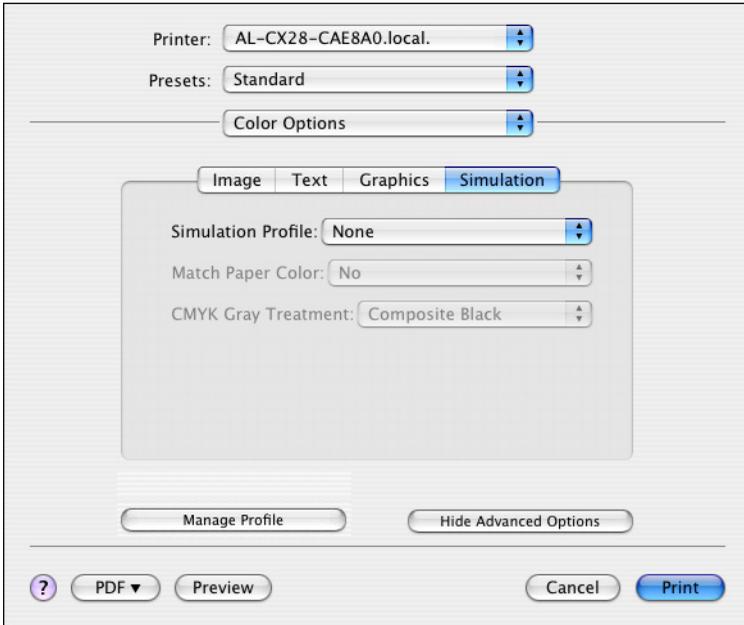
- **RGB Source**  
Allows you to select RGB color profiles for text.
- **RGB Intent**  
Allows you to select color intent for RGB text.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for text.
- **Destination Profile**  
Allows you to select Destination Profile for text.
- **Halftone**  
Allows you to select halftone for text.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for text.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Graphics



- **RGB Source**  
Allows you to select RGB color profiles for graphics.
- **RGB Intent**  
Allows you to select color intent for RGB graphics.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for graphics.
- **Destination Profile**  
Allows you to select Destination Profile for graphics.
- **Halftone**  
Allows you to select halftone for graphics.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for graphics.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Simulation



- **Simulation Profiles**  
Allows you to select color profiles for simulation.
- **Match Paper Color**  
Allows you to set Match Paper Color.
- **CMYK Gray Treatment**  
Allows you to select Simulation gray treatment.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Printer Features

Printer: AL-CX28-CAE8A0.local

Presets: Standard

Printer Features

Nearest Size and Scale

Manually Print on 2nd Side

Paper Type: No Setting

Collate

? PDF Preview Cancel Print

- **Nearest Size and Scale**

If no paper tray contains paper of the specified size, the page is automatically enlarged or reduced and paper of the most appropriate size is selected.

- **Manually Print on 2nd Side**

This feature must be set when you set paper already printed on the front side.

- **Paper Type**

Select the desired paper type from the Paper Type pop-up menu.

- **Collate**

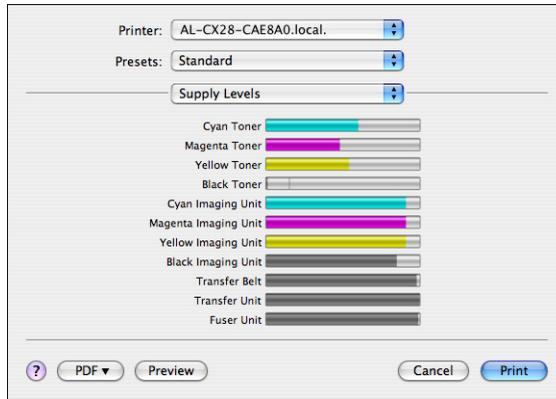
Select whether or not to use the collate function.



*In order to use the collate function, an optional hard disk drive must be installed.*

## Supply Levels

The **Supply Levels** section provides information for checking the amount of service life remaining on each consumable.



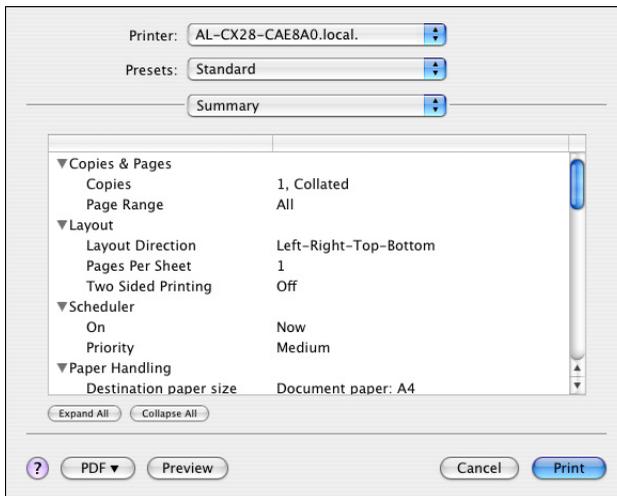
The **Supply Levels** section appears when a printer is created on Mac OS X v10.4 with a Bonjour, IPP, LPD, Socket connection.



The **Supply Levels** section may not appear depending on the application you use.

## Summary

The **Summary** is used to check the currently selected print settings.



# Specifying Print Settings (Mac OS X 10.5)

The following dialog box appears when **Print...** is selected from the **File** menu in the application being used.

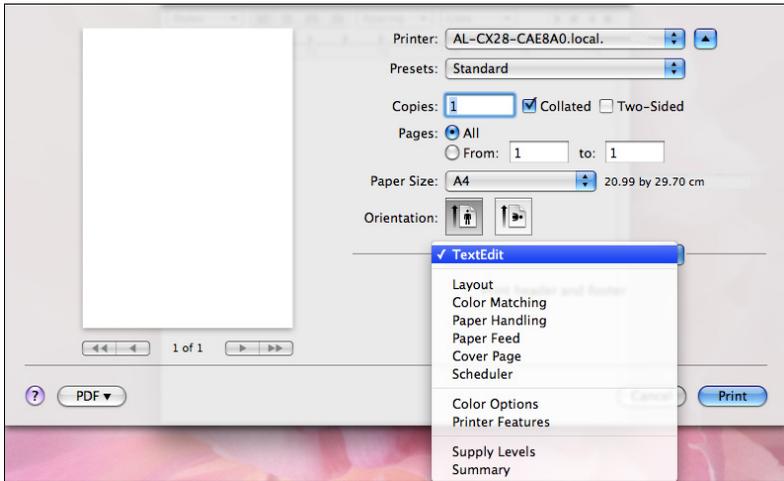
1 Select **Print...** from the **File** menu.

*The **Print** dialog box appears.*

2 Select this printer in the **Printer** pop-up menu.

*The **Print** dialog box is used to specify the following print options.*

## Print Dialog Box



Section	Description
Layout	This section contains options for specifying the page layout when printing and the setting for double-sided printing.
Color Matching	This section contains options for specifying ColorSync settings.
Paper Handling	This section contains options for specifying the pages to be printed and their printing order.
Paper Feed	This section contains paper feed options.
Cover Page	This section contains options for specifying cover page settings.
Scheduler	This section contains options for specifying the print timing and priority of jobs.

Section	Description
Color Options	This section contains options for color printing.
Printer Features	This section contains options for specifying whether or not paper of the nearest size is automatically detected when no paper tray is loaded with paper of the same size as the document and for specifying how the back of the paper is printed.
Supply Levels	This section provides information for checking the amount of service life remaining on each consumable.
Summary	This is used to check the current settings.



*No warning message will be displayed if options cannot be used together are selected.*

## Common buttons

- ? (Help button)  
This displays help information about the Print dialog box.
- PDF  
Click this button to select the PDF menu. The print output can be saved as a PDF file.
- Cancel  
Click this button to close the Print dialog box without applying any of the settings.
- Print  
Click this button to print using the selected print options.
- Copies  
This specifies the number of copies to be printed. If the **Collated** checkbox is selected, all pages in the documents are printed as sets of printouts. For example, if 5 is entered for **Copies** and **Collated** is selected, the document is printed five times from the first page to the last page. If Two-Sided checkbox is selected, the document is printed on both sides of the paper.

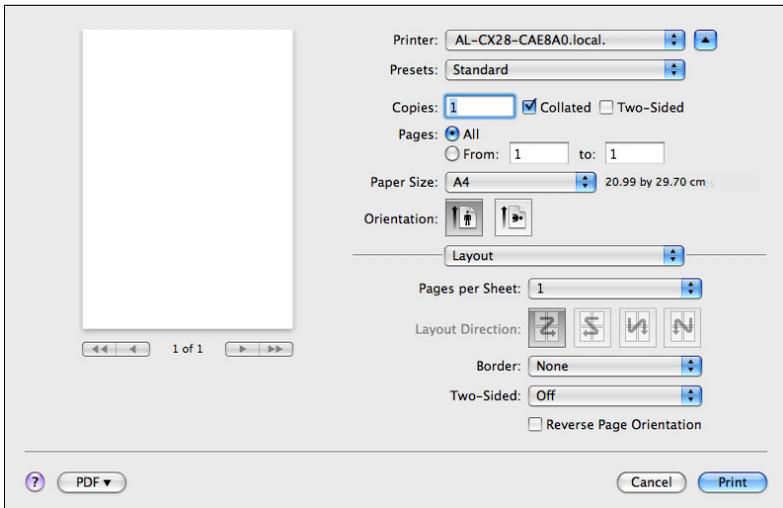


*In order to use the collate function, an optional hard disk drive must be installed. If a collate function is provided with the application, the setting specified from the application is given priority, and the setting specified in the printer driver is ignored.*

- **Pages**
  - All:** Prints all pages in the document.
  - From, to:** Specifies the range of pages to be printed.
- **Paper Size**
  - Select the desired paper size from the Paper Size pop-up menu.
- **Orientation**
  - Select either a vertical or horizontal page orientation for printouts.

## Layout

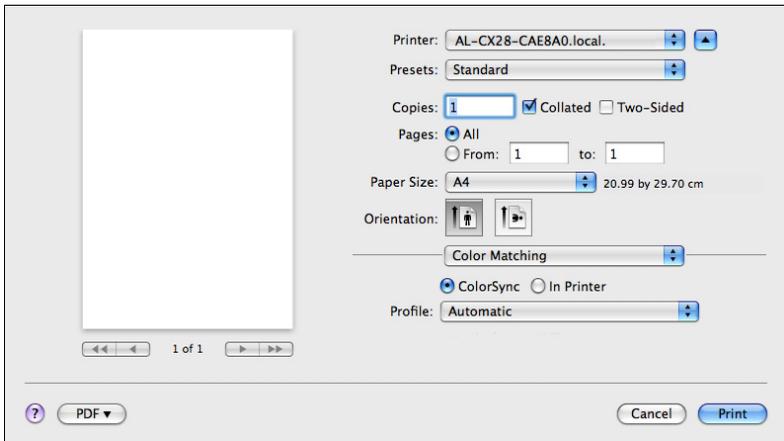
The **Layout** section is used to specify the page layout when printing and the setting for double-sided printing.



- **Pages per Sheet**
  - Specifies the number of pages to be printed on one sheet of paper. For example, if **2** is selected, two pages are printed on one sheet of paper.
- **Layout Direction**
  - If you are printing more than one page per sheet, this specifies the direction and order the pages should be arranged on each sheet of paper.
- **Border**
  - This prints a border around the image for each of the pages printed on one sheet of paper when more than one page is printed on one sheet of paper.

- **Two-Sided**  
Select the desired setting for double-sided printing.
  - Off:** Double-sided printing is not performed.
  - Long-edged binding:** Double-sided printing is performed with the binding along the long edge of the paper.
  - Short-edged binding:** Double-sided printing is performed with the binding along the short edge of the paper.
- **Reverse Page Orientation**  
The printing direction is inverted vertically.

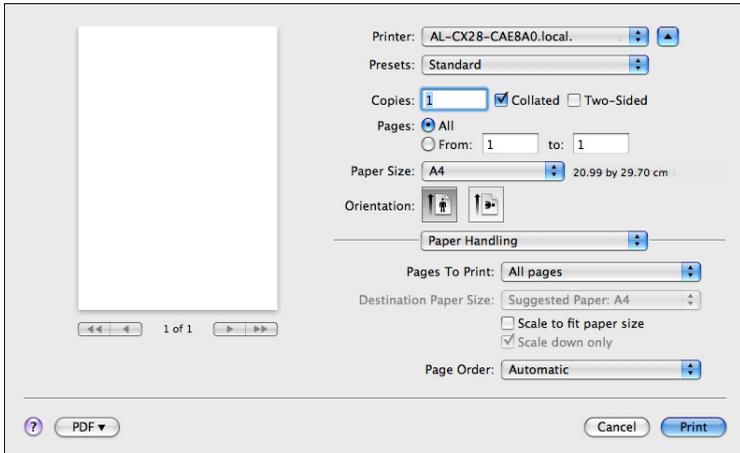
## Color Matching



- **Color Matching**  
ColorSync: Allows you to select host-based color matching.  
In Printer: Allows you to select printer-based color matching.
- **Profile**  
Allows you to select ColorSync Profile.

## Paper Handling

The **Paper Handling** section is used to specify the pages that are to be printed and the order in which the pages are printed.



### ■ Pages To Print

**All pages:** Select this option to print all pages.

**Odd Only:** Select this option to print only the pages with odd page numbers.

**Even Only:** Select this option to print only the pages with even page numbers.

### ■ Destination Paper Size

Select this option to use the document size as created by software applications.

**Scale to fit paper size:** Select this option to fit the document size to the size of paper used by the printer.

Specify the size of paper used by the printer.

**Scale down only:** Select this option to reduce the printing size.

### ■ Page Order

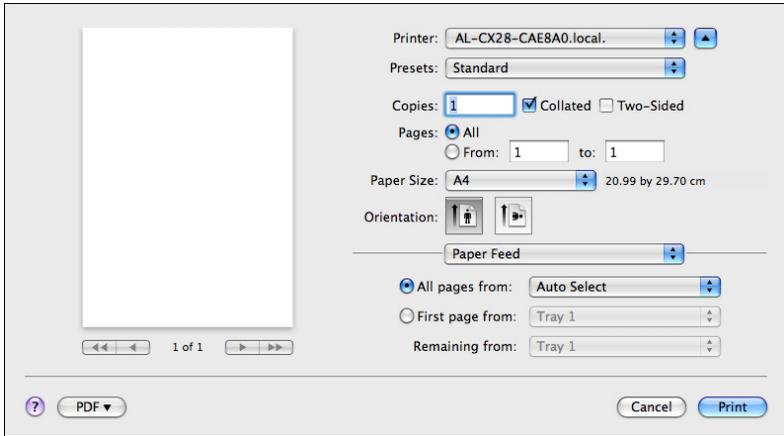
**Automatic:** Select this option to print in the original page order of the document.

**Normal:** Select this option to print in the normal page order.

**Reverse:** Select this option to print in the reverse page order.

## Paper Feed

The **Paper Feed** section is used to specify the paper feed setting.

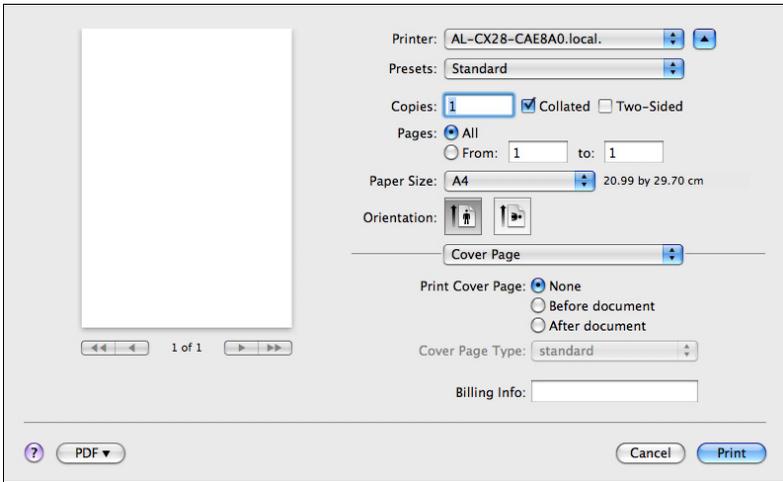


- **All pages from**  
All pages in the document are printed using the paper in the specified paper tray.
- **First page from**  
The first page of the document is printed on paper from a paper tray different from the tray used to print the rest of the document.
- **Remaining from**  
The rest of the document is printed from the specified paper tray when the first page is to be printed on paper from a different tray.



*If an optional lower feeder unit is installed, select **Unit 3** under **Installable Options** (p. 32).*

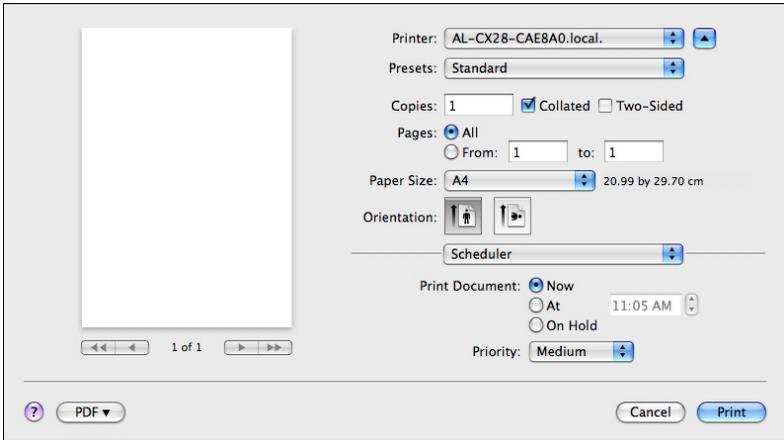
## Cover Page



- **Print Cover Page**  
Allows you to set cover page before or after document.
- **Cover Page Type**  
Allows you to select cover page type.
- **Billing Info**  
Allows you to set billing information printed on cover page.

## Scheduler

The **Scheduler** section is used to specify the timing and priority for printing jobs.



- **Print Document**

**Now:** Select this option to begin printing immediately.

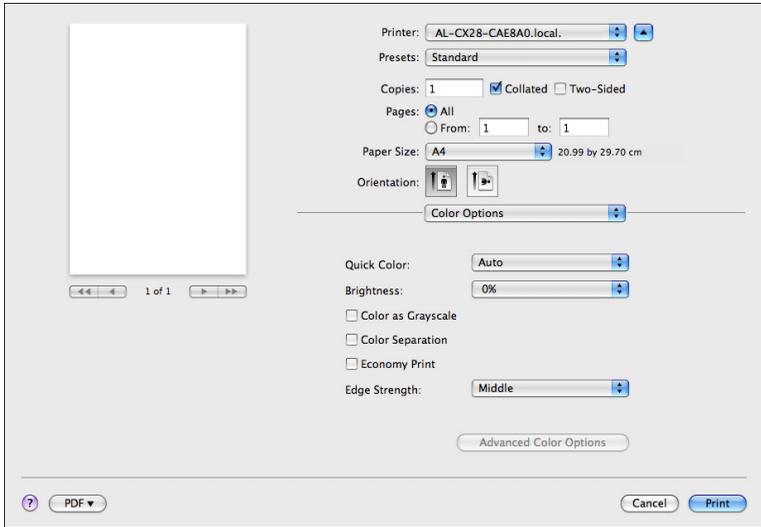
**At:** Specify the time to begin printing.

**On Hold:** Select this option to hold the print job.

- **Priority**

Select the priority for printing jobs that are being held.

# Color Options

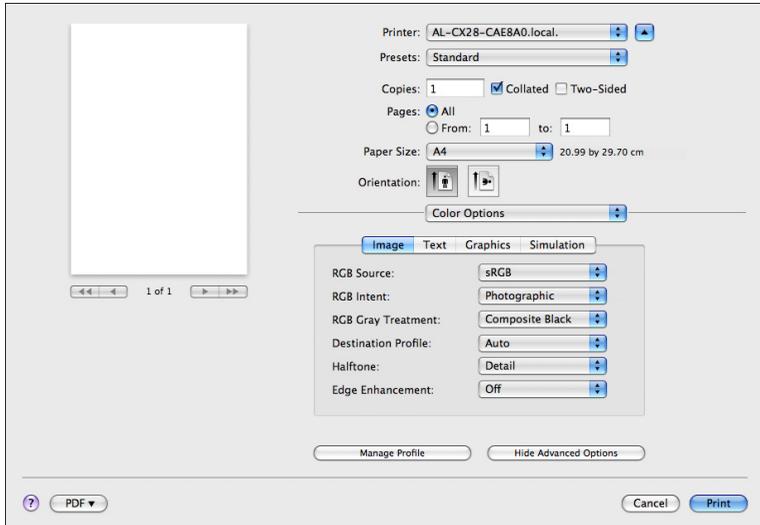


- Quick Color  
Allows you to select a color preset.
- Brightness  
Allows you to set Brightness.
- Color as Grayscale  
Allows you to set Grayscale color.
- Color Separation  
Allows you to set Color Separation.
- Economy Print  
Allows you to set Economy Print Mode.
- Edge Strength  
Allows you to select Edge Strength.
- Advanced Color Options  
Click this button to display the **Advanced Color Options** pane.



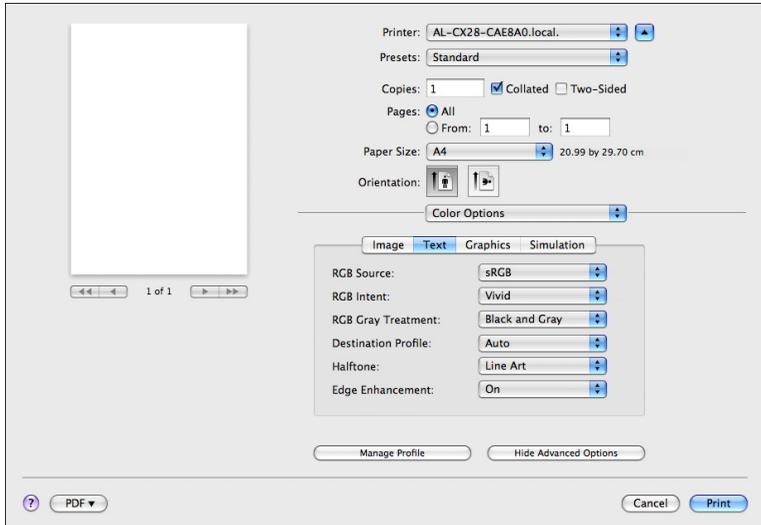
*This button enables when **Custom** is selected under **Quick Color**.*

## Advanced Color Options/Image



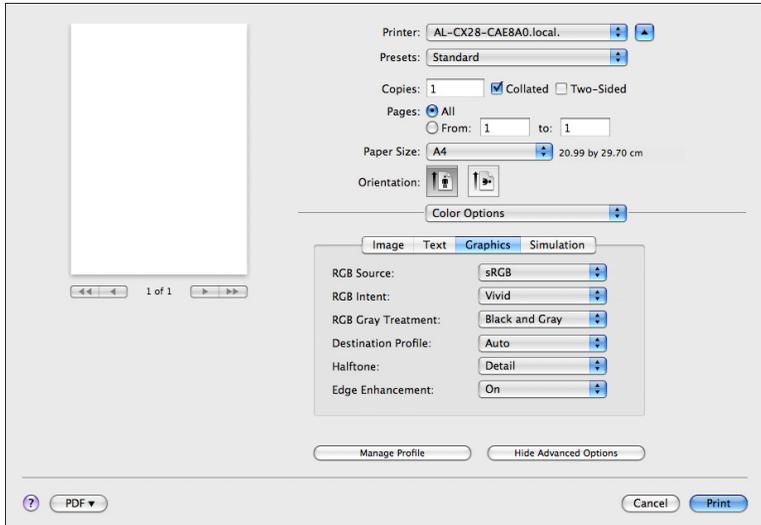
- **RGB Source**  
Allows you to select RGB color profiles for images.
- **RGB Intent**  
Allows you to select color intent for RGB images.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for images.
- **Destination Profile**  
Allows you to select Destination Profile for images.
- **Halftone**  
Allows you to select halftone for images.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for images.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Text



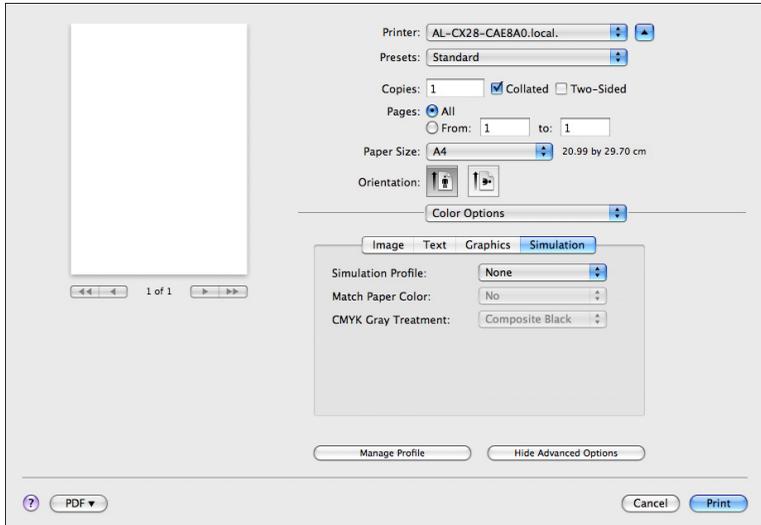
- **RGB Source**  
Allows you to select RGB color profiles for text.
- **RGB Intent**  
Allows you to select color intent for RGB text.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for text.
- **Destination Profile**  
Allows you to select Destination Profile for text.
- **Halftone**  
Allows you to select halftone for text.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for text.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Graphics



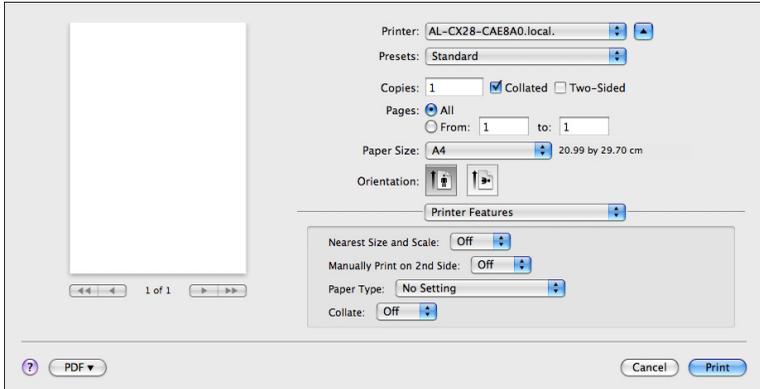
- **RGB Source**  
Allows you to select RGB color profiles for graphics.
- **RGB Intent**  
Allows you to select color intent for RGB graphics.
- **RGB Gray Treatment**  
Allows you to select RGB gray treatment for graphics.
- **Destination Profile**  
Allows you to select Destination Profile for graphics.
- **Halftone**  
Allows you to select halftone for graphics.
- **Edge Enhancement**  
Allows you to select Edge Enhancement for graphics.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

## Advanced Color Options/Simulation



- **Simulation Profile**  
Allows you to select color profiles for simulation.
- **Match Paper Color**  
Allows you to set Match Paper Color.
- **CMYK Gray Treatment**  
Allows you to select Simulation gray treatment.
- **Hide Advanced Options**  
Click this button to hide the **Advanced Color Options** pane and display the **Color Options** pane.
- **Manage Profile**  
Click this button to display the Color Profile Management dialog box. From this dialog box, color profiles can be added or deleted to those available as settings for **RGB Source**, **Destination Profile** and **Simulation Profile** of the **Advanced Color Options** pane.

# Printer Features



## ■ Nearest Size and Scale

If no paper tray contains paper of the specified size, the page is automatically enlarged or reduced and paper of the most appropriate size is selected.

## ■ Manually Print on 2nd Side

This feature must be set when you set paper already printed on the front side.

## ■ Paper Type

Select the desired paper type from the Paper Type pop-up menu.

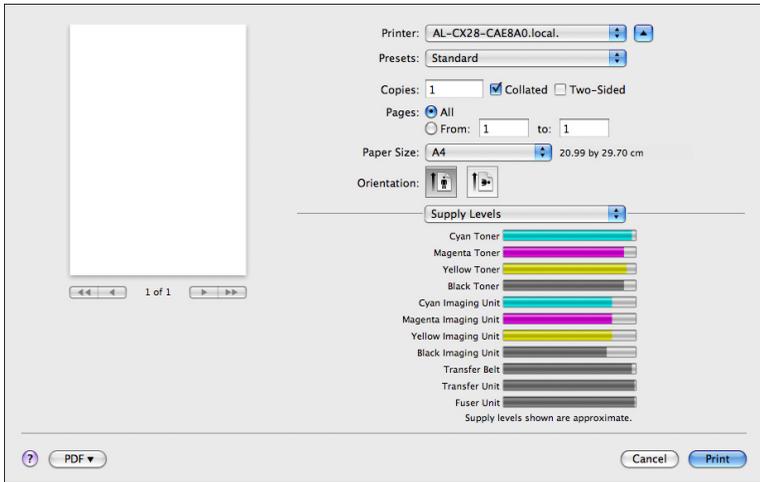
## ■ Collate

Select whether or not to use the collate function.



*In order to use the collate function, an optional hard disk drive must be installed.*

# Supply Levels



The **Supply Levels** section provides information for checking the amount of service life remaining on each consumable.



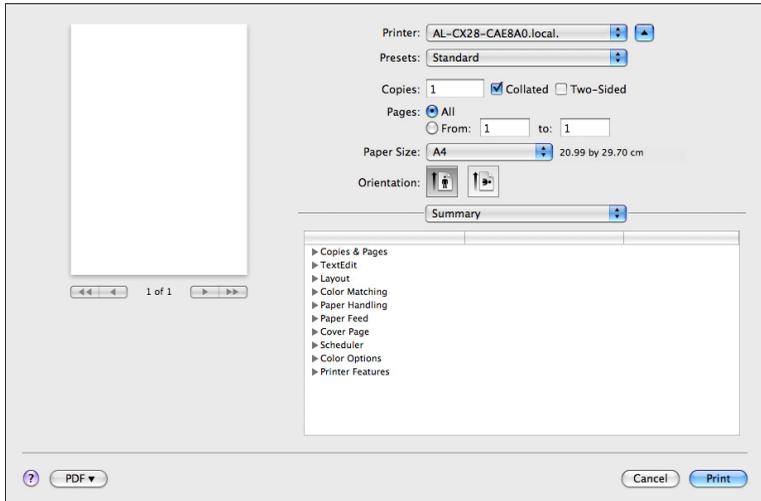
*The **Supply Levels** section appears when a printer is created on Mac OS X v10.5 with a Bonjour, IPP, LPD, Socket connection.*



*The **Supply Levels** section may not appear depending on the application you use.*

# Summary

The **Summary** is used to check the currently selected print settings.



# System Requirements for the Scanner Driver

Before installing the scanner driver, make sure that your system meets the following system requirements.

Computer	Apple Macintosh computer installed with the following processor: <ul style="list-style-type: none"><li>– PowerPC G3 or later processor (PowerPC G4 or later is recommended)</li><li>– Intel processor</li></ul>
Connecting the computer and printer	USB connection, Network connection (10Base-T/100Base-TX/1000Base-T)
Operating system	Mac OS X 10.2.8 or later
RAM	128 MB or more
Available disk space	256 MB or more (for storing images)
Supported languages	English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Slovak, Hungarian, Polish, Korean, Simplified Chinese, Traditional Chinese

# Installing the Scanner Driver



*You must have administrator privileges in order to install the scanner driver.*



*Before proceeding with the installation, be sure to exit all running applications.*



*In the following text, “TWAIN driver” may be used to indicate the scanner driver.*

## Installing the Scanner Driver



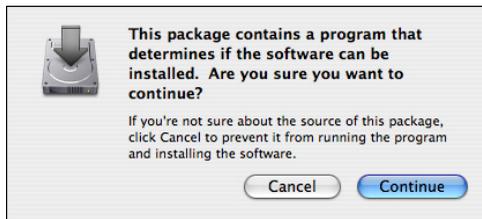
*The procedure for installing the printer driver on Mac OS X 10.4 is described below. The following procedure or some steps may be different depending on the version of the operating system being used. Complete the installation according to the instructions in the dialog boxes that appear.*

- 1 Insert the software CD-ROM in the CD/DVD-ROM drive of your Macintosh.
- 2 Double-click the CD icon on the desktop, Mac folder, Scanner Driver folder, and then double-click the **EPSON AL-CX28 Scanner.pkg**.

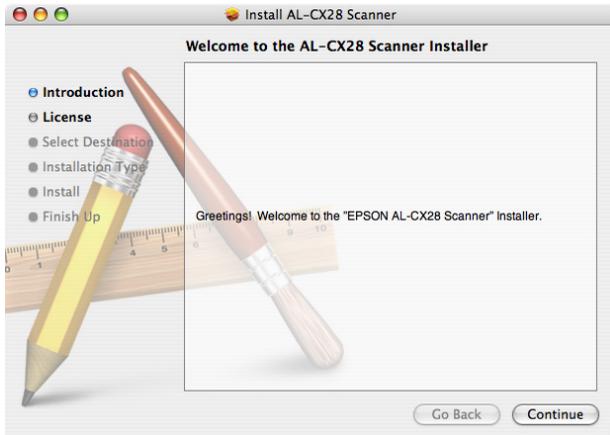


The installer for the scanner driver starts up.

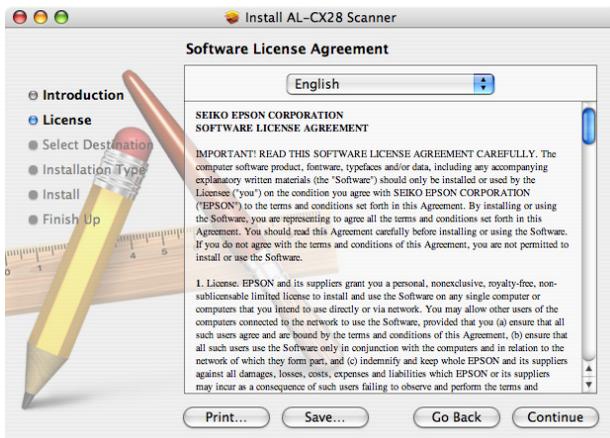
### 3 Click **Continue**.



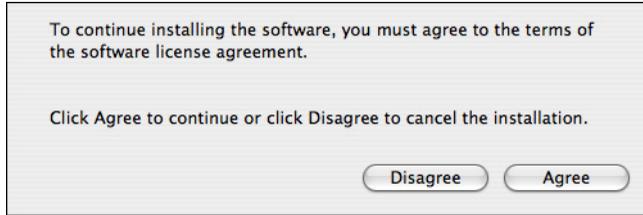
### 4 Click **Continue**.



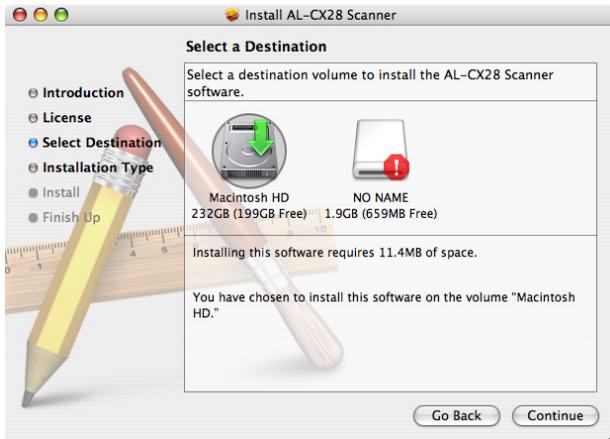
### 5 Check the details of the license agreement, and then click **Continue**.



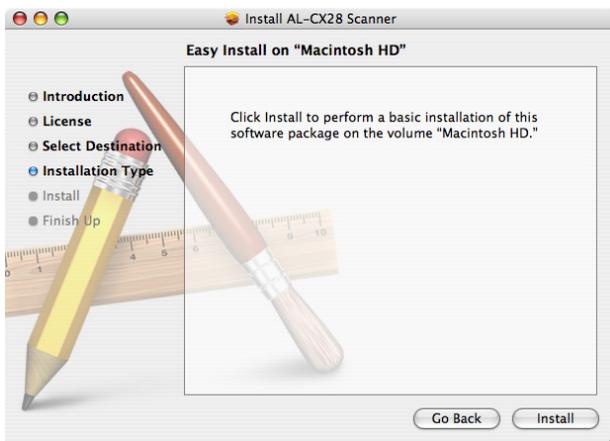
- 6 Click **Agree** in the confirmation dialog box if you agree to the terms of the license.



- 7 In the **Select a Destination** page, select the disk in which you wish to install the software, and then click **Continue**.



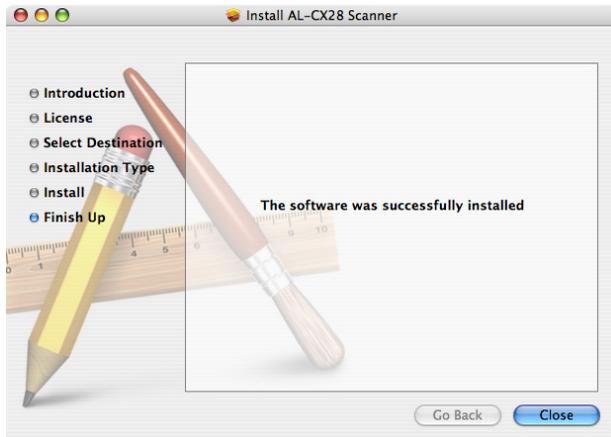
- 8 Click **Install** in the **Easy Install** page.



- 9 Enter the administrator user name and password in the Authenticate dialog box, and then click **OK**.



- Installation starts.
- 10 After the installation has been completed, click **Close**.



This completes the installation of the scanner driver.

# Scanning From a Computer Application

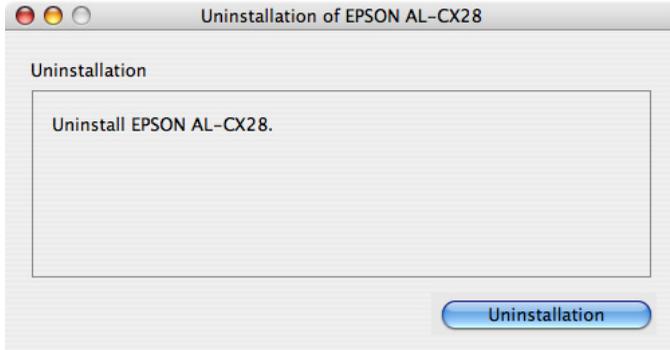
Documents can be scanned from a computer connected to this machine with a USB cable or via a network. Scanning settings can be specified and the scanning operation can be performed from TWAIN-compatible applications. From the scanner driver, a preview can be displayed and various adjustments, such as the size of the scan area can be specified.

## Basic Scanning Operation

- 1 Place the document to be scanned in the ADF or on the original glass.
- 2 Start the application to be used for scanning.
- 3 Start the scanner driver according to the application settings.
  - When connecting via network, select **EPSON AL-CX28 Network**.
  - When connecting with a USB cable, select **EPSON AL-CX28**.
- 4 Specify the necessary scanner driver settings.
  -  *For details on scanner driver setting, refer to “Specify the Scan Settings” on page 79.*
- 5 Click the **Scan** button in the scanner driver.

# Uninstalling the Scanner Driver

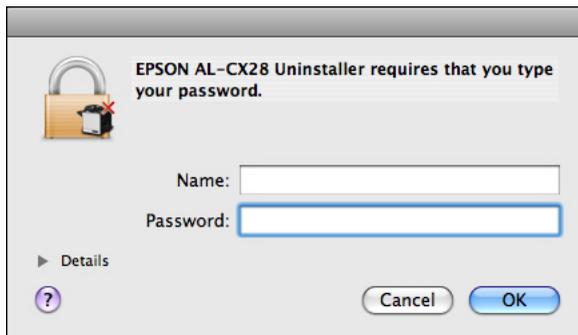
- 1 Double-click **EPSON AL-CX28 Uninstaller.app**, which can be accessed by clicking Library, then Application Support, EPSON, then EPSON AL-CX28.
- 2 Click Uninstallation.



- 3 Click **OK**.

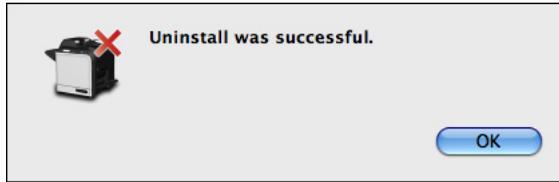


- 4 Enter the administrator user name and password, and then click **OK**.



*Uninstallation begins.*

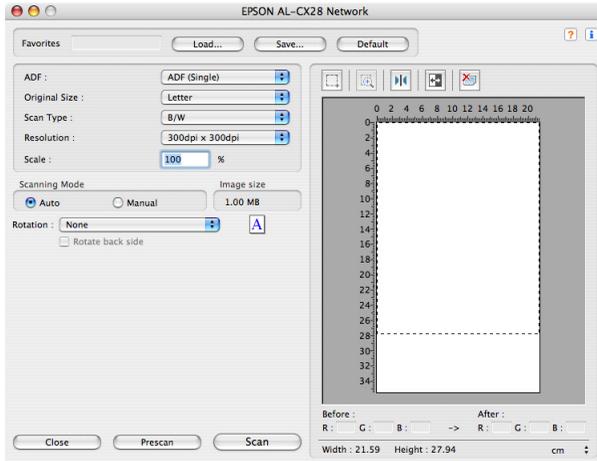
**5** Click **OK**.



*This completes the uninstallation of the scanner driver.*

# Specify the Scan Settings

## Auto Scanning Mode



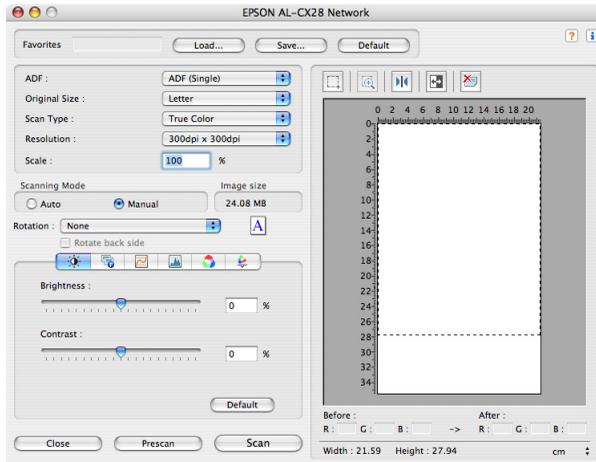
- **Load**  
Specify a saved settings file (dat file) for scanning.
- **Save**  
Save the current settings as a settings file (dat file).
- **Default**  
Return all settings to their defaults.
- **Help icon**  
Click to display the Help.
- **About icon**  
Click to display the software version information.
- **ADF**  
With scanning documents from the ADF, select whether to scan only the front side or both sides of the document.
- **Original Size**  
Specify the original size.
- **Scan Type**  
Specify the scan type.
- **Resolution**  
Specify the resolution.

- **Scale**  
Shows the width and height of the area to be scanned.  
 *If the resolution is set at 1200 × 1200 dpi or higher, a setting larger than 100% cannot be specified.*
- **Scanning Mode**  
Select **Auto** or **Manual**. When **Manual** is selected, settings can be specified for **Brightness/Contrast**, **Filter**, **Curves**, **Levels**, **Color Balance** and **Hue/Saturation**.  
 *The parameters that can be set differ depending on the scanning mode that is selected.*  
 *If **Auto** is selected as the scanning mode, scanning from the original glass is performed after a prescan is performed so that a preview image can be checked.*
- **Image size**  
Shows the data size of the scan image.
- **Rotation**  
The TWAIN driver support 4 kinds of rotation type: None, Right 90, Left 90, 180.  
 *When **ADF (Duplex)** is selected, **Rotate back side** check box can be selected for **Rotation**.*
- **Close**  
Click to close the TWAIN driver window.
- **Prescan**  
Displays a preview in the preview window.
- **Scan**  
Click to begin scanning.
- **AutoCrop**  
Selects an area of the scanned image.
- **Zoom**  
Zooms in on the scanned image.
- **Mirror**  
Displays a mirror image of the preview image.
- **Tone Reversal**  
Reverses the colors of the preview image.
- **Clear**  
Erases the preview.

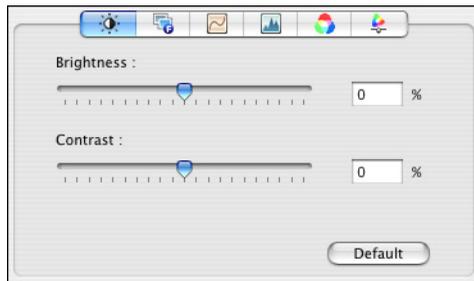
- **Before/After (RGB)**  
Move the pointer in the preview window to display the color tones at the pointer's position before and after adjustments.
- **Width/Height**  
Displays the width and height for the selected area in the selected measurement units.

## Manual Scanning Mode

When **Manual** is selected for Scanning Mode, various setting for scanning tone are available.

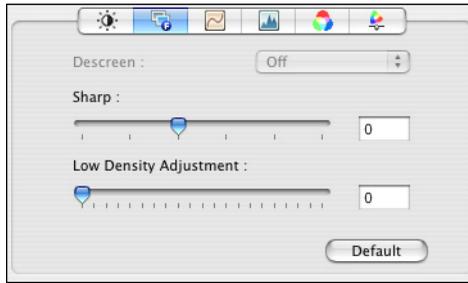


- **Brightness/Contrast**



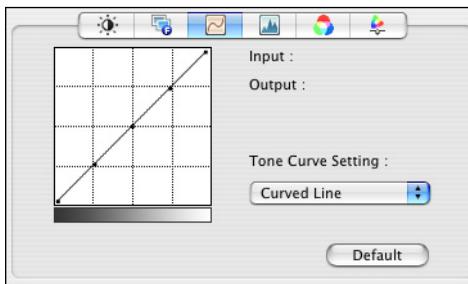
This function is used to set the brightness and contrast of the image.

## ■ Filter



This function is used to sharpen the image or blur it for special effect.

## ■ Curves

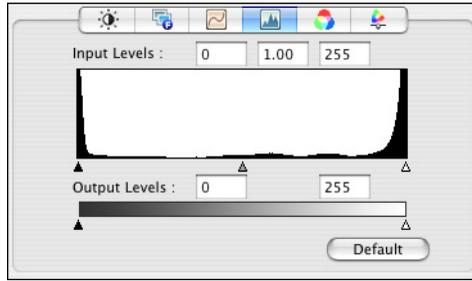


This function is used to set the gamma of the image. In the graph, the X-axis represents the input level, and the Y-axis represents the output level. The selections include, 'Value Input', 'Folded Line', and 'Curved Line'. There are three input controls available: the scroll bar, the editing field, or by directly dragging the points of the folded or curved lines. This function will allow you to brighten or darken the overview of the image without changing the original resolution of the image.



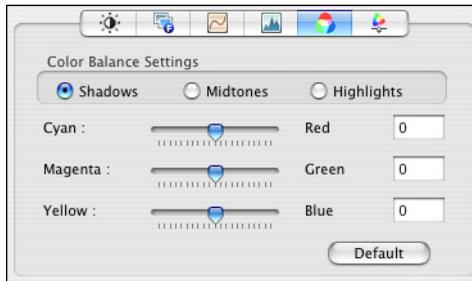
*The scroll bar and editing field are displayed when 'Value Input' is selected.*

## ■ Levels



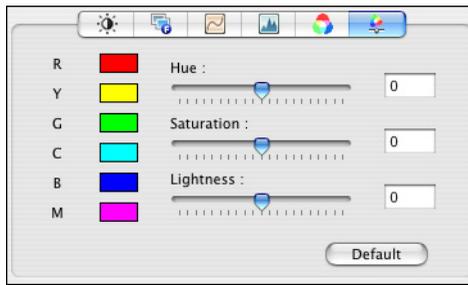
This function is used to set the gamma value, increase shadow and highlight areas, enhance shadow value and reduce highlight value. The X-axis indicates the scaling value and the Y-axis indicates the pixel value. The shadow, gamma and highlight values for the scanned image can be adjusted by dragging the triangular pointer right below the X-axis. Using the output level to adjust the range of brightness.

## ■ Color Balance



This function is used to fine-tune the RGB values in shadows, midtones, and highlights areas.

## ■ Hue/Saturation



This function is used to set hue and saturation as well as the lightness of the image.

# Troubleshooting

Symptom	Solution
The setting in the saved presets are not applied.	Depending on the functions selected for the printer, some preset settings are not saved.
Media type error appears.	If a media type, such as "Transparency", is specified for Tray 2, a media type error appears and the printer stops. Be sure to specify a media type supported by Tray 2.
The printer stops responding.	Depending on the operating system, some paper size and paper type combinations are not permitted. If the job was sent with an incorrect combination of settings, the printer stops responding. Be sure to print with the correct combination of paper size and paper type settings.
The printer is not detected using Rendezvous/Bonjour.	Using Administrator mode in Web-based EpsonNet config, select the <b>Enable</b> from the <b>Bonjour</b> list on the <b>Bonjour</b> page.
Checking the version number of the printer driver and PPD file.	<ul style="list-style-type: none"> <li>■ For Mac OS X 10.4: Select the printer from Printer Setup Utility, and then click <b>Show Info</b> in the <b>Printers</b> menu. In the pop-up menu of the Printer Info dialog box, select <b>Name &amp; Location</b>.</li> <li>■ For Mac OS X 10.5: Select the printer from <b>Print &amp; Fax</b>, and then click <b>Options &amp; Supplies</b>. Click <b>General</b> tab.</li> </ul>
The dialog box may appear unusual when selecting other manufacturer printer and back to AL-CX28.	Close the Print dialog box, and then open it again.
The custom paper size is different from the size that was set.	Depending on the operating system, the custom paper size settings may change slightly due to OS round off errors in unit conversion (for example, 5.80" may change to 5.79").

Symptom	Solution
When printing 2 pages on a single sheet of paper, the pages are not centered on the paper.	Depending on the operating system, the pages are not centered on the paper when printing two pages on a single sheet of paper with the following paper sizes.  Legal, Letter Plus, Foolscap, Government Legal, Statement, Folio
When printing multiple copies of multiple pages on a single sheet of paper with <b>Collated</b> selected, the pages are printed continuously.	When printing multiple copies of multiple pages on a single sheet of paper, <b>Collated</b> cannot be selected.
While printing from Acrobat Reader, the pages are not correctly collated or the print job is cancelled.	If a printing error occurs with Acrobat Reader, print using the preview feature provided by the operating system.
When using Mac OS X 10.5, constraint processing is not applied during printing if certain settings have been specified.	This is a limitation of the operating system. Check the Apple database.
When Mac OS X 10.4 is used to send a job with a custom paper size that has a width of 21.6 cm, Letter-size paper is requested.	Change the width of the custom paper size to 21.59 cm, and then try sending the job again.
The output begins on the first page when the paper is removed after OUTPUT TRAY FULL REMOVE PAPER is displayed while printing a large amount of page.	There is a limitation of the operating system. Removing the paper of output tray before the error message displays, avoids this problem.

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*Operation on  
Linux*

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**2**

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# System Requirements for the Printer Driver

Before installing the printer driver, make sure that your system meets the following system requirements.

Operating systems	Red Hat Linux 9.0, SuSE Linux 8.2
Connecting the computer and printer	USB connection, Network connection (10Base-T/100Base-TX/1000Base-T)
RAM	More than OS recommendation (128 MB or more is recommended)
Network	LPR (queue: lp, LP, default, DEFAULT)
	AppSocket/HP JetDirect
	IPP
Available hard disk space	256 MB or more
Supported languages	English, French, German, Italian, Spanish, Portuguese, Russian, Czech, Korean, Simplified Chinese, Traditional Chinese



*As an example, the descriptions of the operations for Red Hat 9.0 are provided in this chapter.*

# Installing PPD File From the Command Line

 Before proceeding with the installation, be sure to exit all running applications.

 Root privileges are required in order to install `ppd` file.

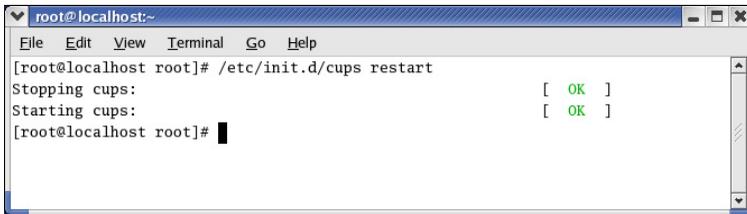
1 Copy the `ppd` file from the software CD-ROM to the “`/usr/share/cups/model`” on the computer.

 A `ppd` file for each language is available in the corresponding “`LinuxPPD/<language>`” folder on the CD. Use the appropriate `ppd` file for the language.

 When printing from OpenOffice, use `CX28opn.ppd`. Otherwise, use `CX28PX.ppd`.  
For details on the procedure for printing from OpenOffice, refer to “*Example Using OpenOffice*” on page 101.

2 From the Main Menu, select **System Tools**, then **Terminal**.

3 Enter the command “`/etc/init.d/cups restart`”.



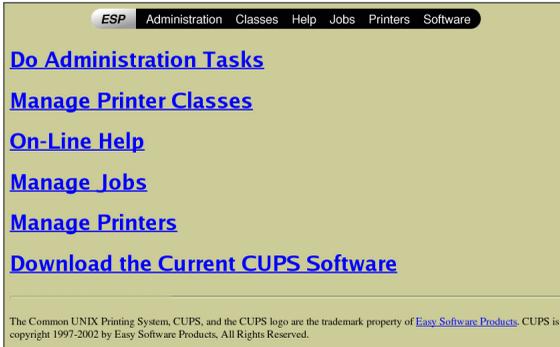
```
root@localhost:~  
File Edit View Terminal Go Help  
[root@localhost root]# /etc/init.d/cups restart  
Stopping cups: [ OK ]  
Starting cups: [ OK ]  
[root@localhost root]#
```

4 Quit Terminal.

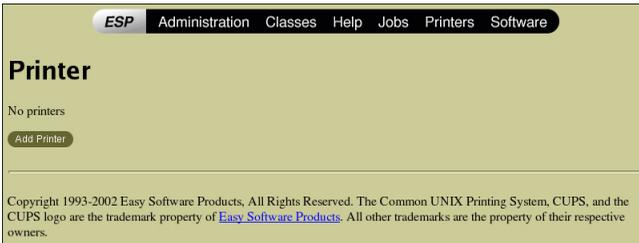
# Adding the Printer

 After copying the PPD file, be sure to restart CUPS.

- 1 Start up the Web browser.
- 2 Enter the URL “http://localhost:631”, and then click **Manage Printers**.  
*The CUPS Administration Web page appears.*



- 3 Click **Add Printer**.  
*A pop-up window appears.*



- 4 Enter the user name and password for using root privileges, and then click **OK**.



- 5 Enter the printer name, location, and description, and then click **Continue**.



The screenshot shows the 'Admin' window with the 'Add New Printer' section. It contains three input fields: 'Name' with the value 'AL-CX28', 'Location', and 'Description'. A green 'Continue' button is located at the bottom right.

- 6 Select a Device Port from the Device list, then click **continue**.

- TCP/IP: *AppSocket/HP Jet-  
Direct, Internet Printing Pro-  
tocol (http) or LPD/LPR Host  
or Printer*

- USB: *USB Printer #1*



The screenshot shows the 'Admin' window with the 'Device for AL-CX28' section. A dropdown menu is open, showing 'AppSocket/HP\_JetDirect' selected. A green 'Continue' button is at the bottom right.

- 7 For a USB or parallel con-  
nection, skip to step 8. Enter  
the device URI in the follow-  
ing form: `socket://<Printer IP  
or Printer Hostname>[:port]`



*Example:*

*Using Printer IP - socket://  
192.168.1.2:9100*

*Using printer Hostname -  
socket://Hostname:9100*

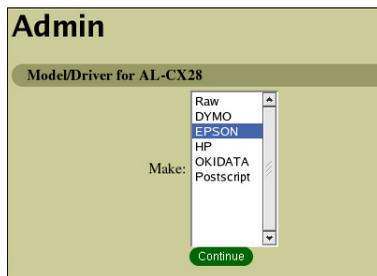
*Hostname may be substituted by IP Address, and Port is optional.*



The screenshot shows the 'Admin' window with the 'Device URI for AL-CX28' section. A text input field contains 'socket://192.168.1.2:9100'. Below it, a list of 'Examples' is shown: 'file:/path/to/filename.prm', 'http://hostname:631/ipp/', 'http://hostname:631/ipp/port1', 'ipp://hostname/ipp/', 'ipp://hostname/ipp/port1', 'lpd://hostname/queue', 'socket://hostname', and 'socket://hostname:9100'. A green 'Continue' button is at the bottom right.

- 8 Click **Continue**.

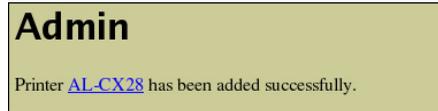
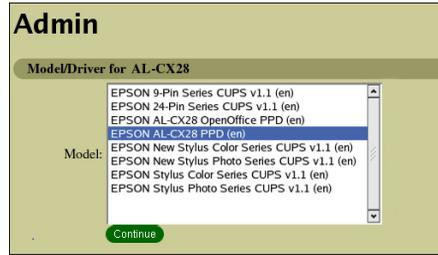
- 9 Select **EPSON**, then click  
**Continue**.



The screenshot shows the 'Admin' window with the 'Model/Driver for AL-CX28' section. A dropdown menu is open, showing 'EPSON' selected. Other options include 'Raw', 'DYMO', 'HP', 'OKIDATA', and 'Postscript'. A green 'Continue' button is at the bottom right.

- 10 Select **EPSON AL-CX28 PPD (en)**, then click **Continue**.

The following message appears.



# Specifying Printer Driver Settings

## Displaying the Settings Page

- 1 Start up the Web browser.
- 2 Enter the URL "http://localhost:631", and then click **Manage Printers**. *Printer on localhost.local-domain window appears.*



- 3 Click **Configure Printer**. *The printer driver settings page appears.*



# Printer Driver Settings

## Extra

Parameters	Settings
Brightness	Specifies the brightness of the image as <b>-15%</b> , <b>-10%</b> , <b>-5%</b> , <b>0%</b> , <b>5%</b> , <b>10%</b> , or <b>15%</b> . ■ The default setting is <b>0%</b> .
Color Separation	Specifies the color separation as <b>On</b> or <b>Off</b> . ■ The default setting is <b>Off</b> .
Economy Print	Select whether or not economy printing is used. ■ The default setting is <b>Off</b> .
Edge Strength	Set the edge strength to <b>Off</b> , <b>Low</b> , <b>Middle</b> or <b>High</b> . ■ The default setting is <b>Middle</b> .
Manually Print on 2nd side	Select whether or not to print on the back side of paper that has already been printed on. ■ The default setting is <b>Off</b> .
Nearest Size and Scale	If no paper tray contains paper of the specified size, the page is automatically enlarged or reduced and paper of the most appropriate size is selected. ■ The default setting is <b>Off</b> .
Resolution	Displays the image resolution (High Quality) for printing.
Select Color	Specifies the color for printing as <b>Color</b> or <b>Grayscale</b> . ■ The default setting is <b>Color</b> .

## General

Parameters	Settings
Collate	If <b>On</b> is selected, all pages in the documents are printed as sets of printouts. <b>■</b> The default setting is <b>Off</b> .
Duplex Options	Specifies the duplex print binding position as <b>Simplex</b> , <b>Long Edge</b> , or <b>Short Edge</b> , if the duplex unit for the printer has been installed. <b>■</b> The default setting is <b>Simplex</b>
Paper Sizes	Specifies the paper size. An irregular paper size cannot be selected.
Paper Source	Specifies the paper source as <b>Tray 1</b> , <b>Tray 2</b> , <b>Tray 3</b> , <b>Tray 1 (Manual Feed)</b> , or <b>Auto</b> . <b>■</b> The default setting is <b>Tray 1</b> .
Paper Type	Specifies the paper type as <b>Printer Default</b> , <b>Plain Paper</b> , <b>Recycled</b> , <b>Transparency</b> , <b>Glossy</b> , <b>Glossy2</b> , <b>Label</b> , <b>Thick 1 (91 - 150g/m<sup>2</sup>)</b> , <b>Thick 2 (151 - 210g/m<sup>2</sup>)</b> , <b>Letter-head</b> , <b>Envelope</b> , or <b>Postcard</b> . <b>■</b> The default setting is <b>Printer Default</b> .

## Graphics Options

Parameters	Settings
Graphics Edge Enhancement	Select whether graphic edges are emphasized. ■ The default setting is <b>On</b> .
Graphics Halftone	Specifies the halftone for graphic as <b>Line Art, Detail</b> or <b>Smooth</b> . ■ The default setting is <b>Detail</b> .
Graphics RGB Gray Treatment	Specifies the RGB Gray Treatment as <b>Composite Black, Black and Gray</b> , or <b>Black Only</b> . ■ The default setting is <b>Black and Gray</b> .
Graphics RGB Intent	Specifies RGB intent for graphic as <b>Vivid, Photographic, Relative Color</b> , or <b>Absolute Color</b> . ■ The default setting is <b>Vivid</b> .
Graphics RGB Source	Specifies RGB source for graphic as <b>None, sRGB, Adobe RGB (1998), Apple RGB, ColorMatch RGB</b> , or <b>Blue Adjust RGB</b> . ■ The default setting is <b>sRGB</b> .

## Image Options

Parameters	Settings
Image Edge Enhancement	Select whether image edges are emphasized. ■ The default setting is <b>Off</b> .
Image Halftone	Specifies the halftone for image as <b>Line Art, Detail</b> , or <b>Smooth</b> . ■ The default setting is <b>Detail</b> .
Image RGB Gray Treatment	Specifies the RGB Gray Treatment as <b>Composite Black, Black and Gray</b> , or <b>Black Only</b> . ■ The default setting is <b>Composite Black</b> .

<b>Parameters</b>	<b>Settings</b>
Image RGB Intent	Specifies RGB intent for image as <b>Vivid</b> , <b>Photographic</b> , <b>Relative Color</b> , or <b>Absolute Color</b> . <ul style="list-style-type: none"> <li>■ The default setting is <b>Photographic</b>.</li> </ul>
Image RGB Source	Specifies RGB source for image as <b>None</b> , <b>sRGB</b> , <b>Adobe RGB (1998)</b> , <b>Apple RGB</b> , <b>ColorMatch RGB</b> , or <b>Blue Adjust RGB</b> . <ul style="list-style-type: none"> <li>■ The default setting is <b>sRGB</b>.</li> </ul>

## Options Installed

<b>Parameters</b>	<b>Settings</b>
Paper Source Unit	Select <b>Unit 3</b> if an optional lower feeder unit for the printer has been installed. <ul style="list-style-type: none"> <li>■ The default setting is <b>Disabled</b>.</li> </ul>
Printer Memory	Select <b>256 MB</b> , <b>512 MB</b> , or <b>768 MB</b> if an optional memory for the printer has been installed. <ul style="list-style-type: none"> <li>■ The default setting is <b>256 MB</b>.</li> </ul>
Storage	Select <b>None</b> or <b>HDD</b> for the storage unit that is installed. <ul style="list-style-type: none"> <li>■ The default setting is <b>None</b>.</li> </ul>

## Simulation

Parameters	Settings
CMYK Gray Treatment	Specifies simulation gray treatment as <b>Composite Black</b> , <b>Black and Gray</b> , or <b>Black Only</b> . ■ The default setting is <b>Composite Black</b> .
Match Paper Color	Specifies the Match Paper Color. ■ The default setting is <b>Off</b> .
Simulation Profile	Specifies the simulation profile as <b>None</b> , <b>SWOP</b> , <b>Euroscale</b> , <b>Commercial Press</b> , <b>DIC</b> , or <b>TOYO</b> . ■ The default setting is <b>None</b> .

## Text Options

Parameters	Settings
Text Edge Enhancement	Select whether text edges are emphasized. ■ The default setting is <b>On</b> .
Text Halftone	Specifies the halftone for text as <b>Line Art</b> , <b>Detail</b> , or <b>Smooth</b> . ■ The default setting is <b>Line Art</b> .
Text RGB Gray Treatment	Specifies the RGB Gray Treatment as <b>Composite Black</b> , <b>Black and Gray</b> , or <b>Black Only</b> . ■ The default setting is <b>Black and Gray</b> .
Text RGB Intent	Specifies RGB intent for text as <b>Vivid</b> , <b>Photographic</b> , <b>Relative Color</b> , or <b>Absolute Color</b> . ■ The default setting is <b>Vivid</b> .
Text RGB Source	Specifies RGB source for text as <b>None</b> , <b>sRGB</b> , <b>Adobe RGB (1998)</b> , <b>Apple RGB</b> , <b>ColorMatch RGB</b> , or <b>Blue Adjust RGB</b> . ■ The default setting is <b>sRGB</b> .

## Banners

<b>Parameters</b>	<b>Settings</b>
Starting Banner	Specifies the starting banner as <b>none</b> , <b>classified</b> , <b>confidential</b> , <b>secret</b> , <b>standard</b> , <b>topsecret</b> , or <b>unclassified</b> .  ■ The default setting is <b>none</b> .
Ending Banner	Specifies the ending banner as <b>none</b> , <b>classified</b> , <b>confidential</b> , <b>secret</b> , <b>standard</b> , <b>topsecret</b> , or <b>unclassified</b> .  ■ The default setting is <b>none</b> .

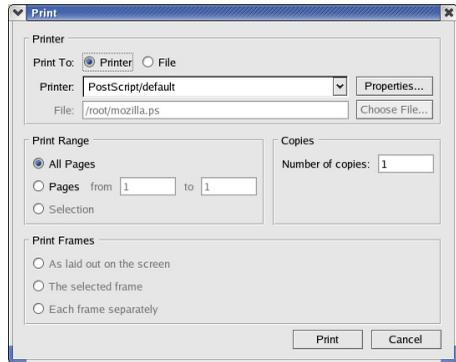
# Printing a Document

The contents and available options that appear in the print dialog box may vary depending on the application being used.

## Example Using LPR Command

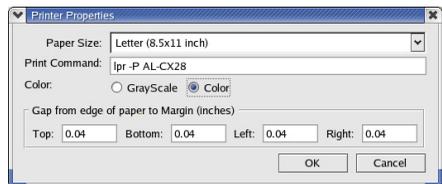
With applications other than OpenOffice, the following print dialog box appears.

- 1 Click **Properties** in the Print dialog box.



- 2 The Print Properties dialog box appears.

- 3 Enter the command "lpr -P" followed by the name of the printer, and then click **OK**. The Print dialog box appears again.



- 4 Click **Print** to print the document.

## Example Using OpenOffice

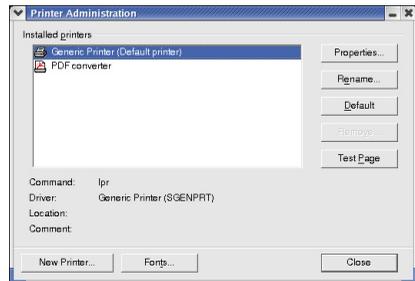


The procedure for printing on Red Hat 9 with OpenOffice 1.0.2 is described below. The following procedure or some steps may be different depending on the version of the operating system being used.



First, use `CX28PX.ppd` to add the printer to the system. For details on adding a printer to the system, refer to “Installing PPD File From the Command Line” on page 89.

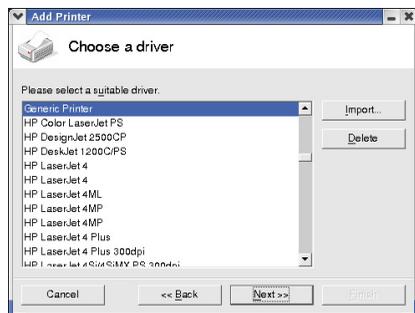
- 1 From the main menu, select **Office**, then **OpenOffice.org Printer Setup**. The *Printer Administration* dialog box appears.



- 2 Click **New Printer**.



- 3 Check that **Add a printer** is selected, and then click **Next**.

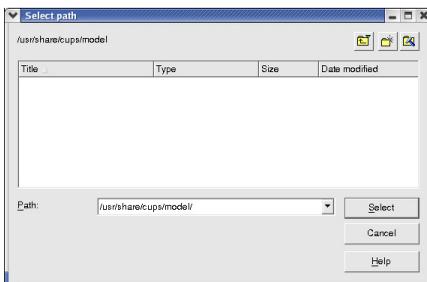


- 4 Click **Import**.

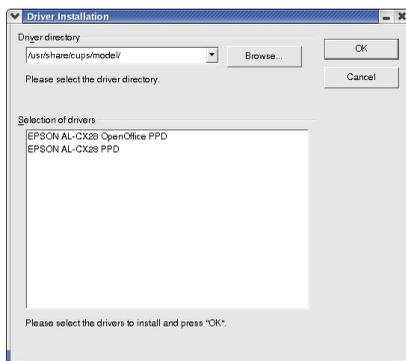
5 Click **Browse**.



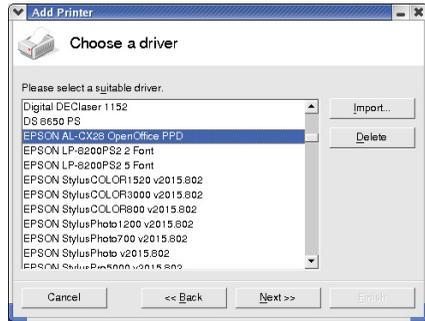
6 In the Path, enter `/usr/share/cups/model/`, then click **Select**.



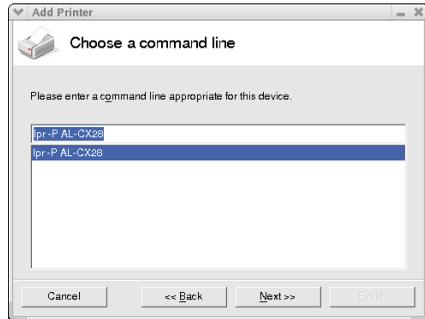
7 In the Selection of drivers list, select **EPSON AL-CX28 OpenOffice PPD**, then click **OK**.



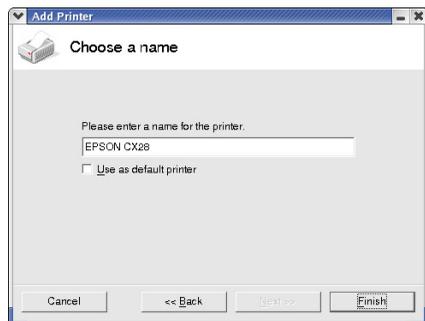
- 8 In the Please select a suitable driver list, select **EPSON AL-CX28 OpenOffice PPD**, then click **Next**.



- 9 Select the command to be displayed in the list, then click **Next**.

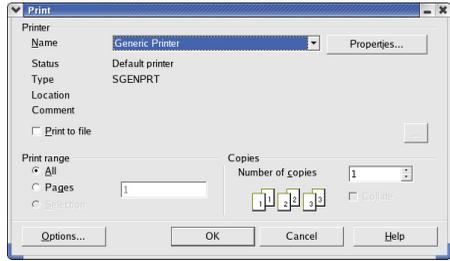


- 10 Change the printer name.

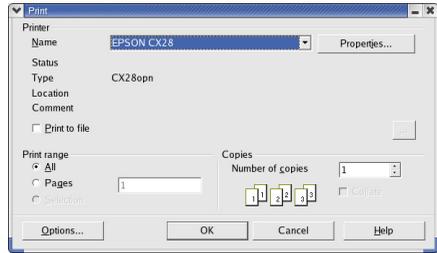


- 11 Click **Finish**. The Printer Administration dialog box appears again.  
12 Click **Close**.  
13 From the main menu, select **Office**, then **OpenOffice.org Writer**.

14 Click **Print** in the **File** menu.



15 Select the name of the printer specified in the **OpenOffice** printer settings.



16 Click **OK**.  
*The printer Print dialog box appears.*

# Checking Print Jobs

You can check the status of print jobs from a Web browser.

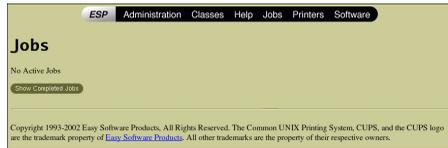
- 1 Start up the Web browser.
- 2 Enter the URL "http://localhost:631".  
*The CUPS Administration Web page appears.*



- 3 Click **Manage Jobs**.  
*A list of the currently active print jobs appear.*



*To check the status of completed print jobs, click **Show Complete Jobs**.*



# Troubleshooting

Symptom	Action
The printer stops because of a paper size error or a paper type error.	The job may have been sent with a prohibited combination of settings (for example, for the paper size and media type). Printing is not possible with postcards or overhead projector transparencies if <b>Plain Paper</b> is selected.
Printing does not continue with a custom paper size.	Printing with custom paper sizes is not possible directly from the printer driver. This can only be performed from the command line. Specify the following command to print data.  lpr -P <i>[printer_name]</i> -o media=Custom. <i>[WIDTHxLENGTH]</i> <i>[file_name]</i>  1. Format of Custom. <i>[WIDTHxLENGTH]</i> : Custom.150x200mm, Custom.8x11in, Custom.15x20cm, or Custom.612x782 (postscript points)  2. The specified file must be a PS, PDF or JPEG file.
Printing cannot be completed correctly from OpenOffice or any other Office application (such as, Kword).	Applications running under Linux have their own print settings. Some of these functions may not be supported by this printer. Observe the following for best printing results.  ■ Settings made within the application: Paper size and orientation  ■ Settings made with the printer driver (kprinter): Settings other than those specified above (for example, paper type, tray, and resolution)
When printing from Acrobat Reader, part of the image is printed in solid black or the job is interrupted.	There is a compatibility problem between Ghostscript and Acrobat Reader. Try using a different PDF application.
Watermarks cannot be printed from Kword.	This is a bug with Kword. Use Overlay instead.

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***Operation on  
NetWare***

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**3**

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# Printing With NetWare

The printer controller supports the following environments.

## Network Printing in a NetWare Environment

NetWare Version	Protocol Used	Emulation	Service Mode
NetWare 4.x	IPX	Bindery/NDS	Pserver/Nprinter
NetWare 5.x/6	IPX	NDS	Pserver
	TCP/IP	NDPS(lpr)	

### For Remote Printer Mode With NetWare 4.x Bindery Emulation



*Before using bindery emulation, check that bindery emulation is compatible with the NetWare server.*

- 1 From a client computer, log on with Supervisor permissions to access the NetWare server where the Pserver is registered.
- 2 Start up Pconsole.
- 3 From the **Available Options** list, select **Quick Setup**, and then click the [Enter] button.
- 4 Enter the appropriate names in the **Printer Server Name**, **Printer Name**, **Print Queue Name**, and **Print Queue Volume** fields, select **Other/Unknown** from the **Printer type** field, and then save the specified settings.
- 5 Click the [Esc] button to quit Pconsole.
- 6 Use the NetWare server console to load PSERVER.NLM.



*For queue user privileges, printer notification option, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify settings as necessary.*

- 7 In Administrator mode of Web-based EpsonNet config, select **NetWare** from the **Network** tab, and then specify the following settings.
  - NetWare Print: Select **Enable**.
  - Frame Type:  
Select **Auto**. (Select the frame type according to the network environment.)
  - Mode: Select **NPrinter/RPrinter**.
  - Printer Name:  
Specify the printer name. (Default: AL-CX28-xxxxxx)

- Printer Number:  
Specify the printer number (0-255). When 255 is specified, the setting is **Auto**.
- 8 Restart the printer (turn the printer off, then on again).
  - 9 Use the NetWare server console to display the print server screen, and then check that the created printer is shown as **Waiting for Job** for the connected printer (0).

## For Print Server Mode With NetWare 4.x Bindery Emulation



*Before using bindery emulation, check that bindery emulation is compatible with the NetWare server.*

- 1 From a client computer, log on with Supervisor permissions to access the NetWare server where the Pserver is registered.
- 2 Start up Pconsole.
- 3 From the **Available Options** list, select **Quick Setup**, and then click the [Enter] button.
- 4 Enter the appropriate names in the **Printer Server Name**, **Printer Name**, **Print Queue Name**, and **Print Queue Volume** fields, select **Other/Unknown** from the **Printer type** field, and then save the specified settings.
- 5 Click the [Esc] button to quit Pconsole.
- 6 In Administrator mode of Web-based EpsonNet config, select **NetWare** from the **Network** tab, and then specify the following settings.
  - NetWare Print: Select **Enable**.
  - Frame Type:  
Select **Auto**. (Select the frame type according to the network environment.)
  - Mode: Select **PServer**.
  - Print Server Name:  
Specify the print server name created in step 4.
  - Print Server Password:  
Specify only when setting from the NetWare server.
  - Print Queue Scan Rate: Specify 1. (Change as necessary.)
  - Bindery/NDS: Select **Bindery/NDS**.
  - Preferred File Server:  
Specify the name of the file server that connects to the Pserver.
- 7 Restart the printer (turn the printer off, then on again).

- 8 Use the NetWare server console to load MONITOR.NLM.
- 9 Select the connection information and, in the active connection column, check that the created Pserver is connected.

## For NetWare 4.x Remote Printer Mode (NDS)

- 1 Log on to NetWare as an administrator from a client computer.
- 2 Start up NWadmin.
- 3 Select either the organization or organizational unit container that offers the print service, and then click **Print Services Quick Setup** on the **Tools** menu.
- 4 Enter the appropriate names in the **Printer Server Name**, **Printer Name**, **Print Queue Name**, and **Print Queue Volume** fields, select **Other/Unknown** from the **Printer type** field, and then save the specified settings.



*For queue user privileges, printer notification option, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify settings as necessary.*

- 5 In Administrator mode of Web-based EpsonNet config, select **NetWare** from the **Network** tab, and then specify the following settings.
  - NetWare Print: Select **Enable**.
  - Frame Type:  
Select **Auto**. (Select the frame type according to the network environment.)
  - Mode: Select **NPrinter/RPrinter**.
  - Printer Name:  
Specify the printer name. (Default: AL-CX28-xxxxxx)
  - Printer Number:  
Specify the printer number (0-255). When 255 is specified, the setting is **Auto**.
- 6 Restart the printer (turn the printer off, then on again)
- 7 Use the NetWare server console to load PSERVER.NLM.
- 8 Use the NetWare server console to display the print server screen, and then check that created printer is shown as **Waiting for Job** for the connected printer (0).

## For NetWare 4.x/5.x/6 Print Server Mode (NDS)



To use the Print Server mode, the IPX protocol must be loaded on the NetWare server.

- 1 Log on to NetWare as an administrator from a client computer.
- 2 Start up NWadmin.
- 3 Select either the organization or organizational unit container that offers the print service, and then click **Print Services Quick Setup (non-NDPS)** on the **Tools** menu.
- 4 Enter the appropriate names in the **Printer Server Name**, **Printer Name**, **Print Queue Name**, and **Print Queue Volume** fields, select **Other/Unknown** from the **Printer Type** field, and then click the [Create] button.



For queue user privileges, printer notification option, assignment of multiple queues, and passwords, refer to the NetWare documentation, and specify settings as necessary.

- 5 In Administrator mode of Web-based EpsonNet config, select **NetWare** from the **Network** tab, and then specify the following settings.
  - NetWare Print: Select **Enable**.
  - Frame Type:  
Select **Auto**. (Select the frame type according to the network environment.)
  - Mode: Select **PServer**.
  - Print Server Name: Specify the print server name created in step 4.
  - Print Server Password: Specify only when setting from the NetWare server.
  - Print Queue Scan Rate: Specify 1. (Change as necessary.)
  - Bindery/NDS: Select **NDS**.
  - Preferred NDS Context Name:  
Specify the name of the context that connects to Pserver.
  - Preferred NDS Tree Name:  
Specify the name of the tree that Pserver logs on to.
- 6 Restart the printer (turn the printer off, then on again).
- 7 Use the NetWare server console to load MONITOR.NLM.
- 8 Select the connection information and, in the active connection column, check that the created Pserver is connected.

## For NetWare 5.x/6 Novell Distributed Print Service (NDPS)



*Before specifying settings for NDPS, check that the NDPS broker and NDPS manager have been created and loaded.*



*Also, before performing the following procedure, check that the TCP/IP protocol has been set in the NetWare server, and check that the IP address has been set for this machine and that this machine is on.*

- 1 Log on to NetWare as an administrator from a client computer.
- 2 Start up NWAdmin.
- 3 Right-click the organization or organizational unit container where you will create the printer agent, and then click **NDPS Printer** on the **Create** sub-menu.
- 4 In the **NDPS Printer Name** box, enter the printer name.
- 5 In the **Printer Agent Source** column, select **Create a New Printer Agent**, and then click the **Create** button.
- 6 Check the printer agent name, and then in the **NDPS Manager Name** box, browse through the NDPS manager names, and register one.
- 7 In the **Gateway Types**, select **Novell Printer Gateway**, and then register it.
- 8 In the Configure Novell PDS for Printer Agent window, select **(None)** for the printer type and **Novell Port Handler** for the port handler type, and then register the settings.
- 9 In **Connection type**, select **Remote (LPR on IP)**, and then register it.
- 10 Enter the IP address set for this machine as the host address, enter **Print** as the printer name, and then click the [Finish] button to register the settings.
- 11 The printer driver registration screen appears. Select **None** for each operating system to complete the registration.



*For settings for the queue user rights, printer notification option, assignment of multiple queues, and passwords, refer to the NetWare documentation, and set them as necessary.*

## Setting Up a Client (Windows) Settings When Using the NetWare Server

- 1 For Windows 2000, click the [Start] button, point to **Settings**, and then click **Printers**.  
For Windows Vista, click the [Start] button, select **Control Panel**, and then click **Hardware and Sound** to select **Printers**.  
For Windows XP/Server 2003, click the [Start] button, and then click **Printers and Faxes**.



*If **Printers and Faxes** does not appear in the Start menu, open the Control Panel from the Start menu, select **Printers and Other Hardware**, and then select **Printers and Faxes**.*

- 2 For Windows 2000/Server 2003, double-click the **Add Printer** icon.  
For Windows Vista, click **Add a printer** on the menu.  
For Windows XP, click **Add a printer** on the **Printer Tasks** menu. The **Add Printer Wizard** starts up.
- 3 In the port settings, browse the network, and specify the name of the created queue (or NDPS printer name).
- 4 In the **Printer Model** list, specify the folder on the CD that contains the printer driver for the operating system and printer driver to be used.
- 5 Follow the on-screen instructions to complete the installation.



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***Understanding  
the Network  
Setting Menu***

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**4**

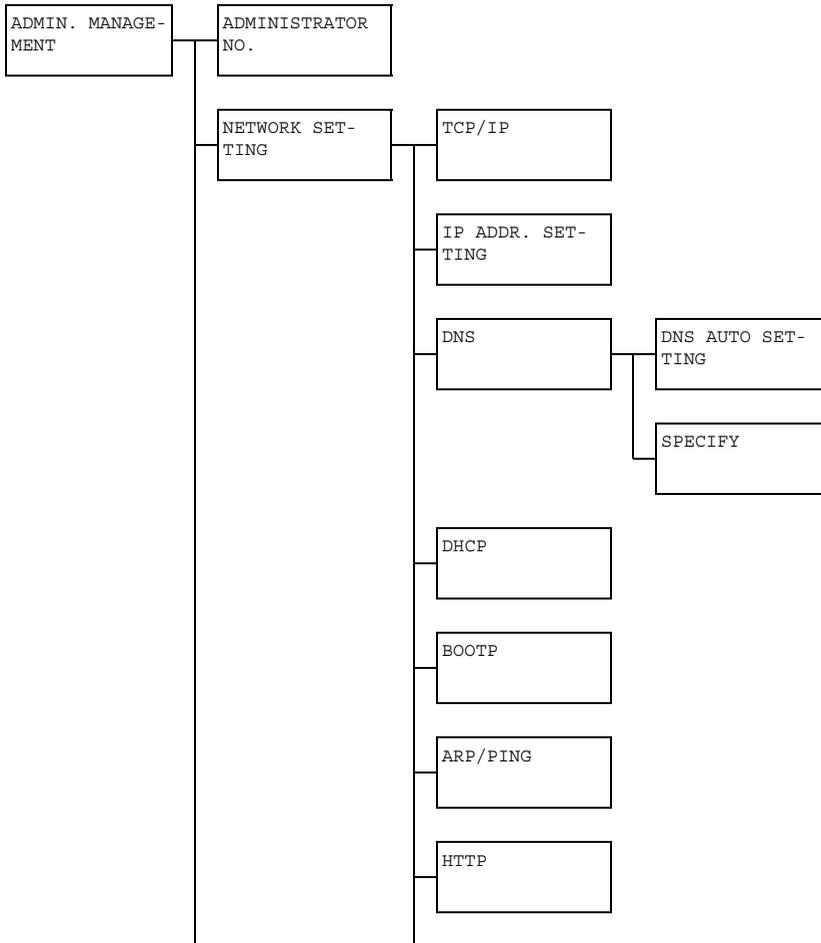
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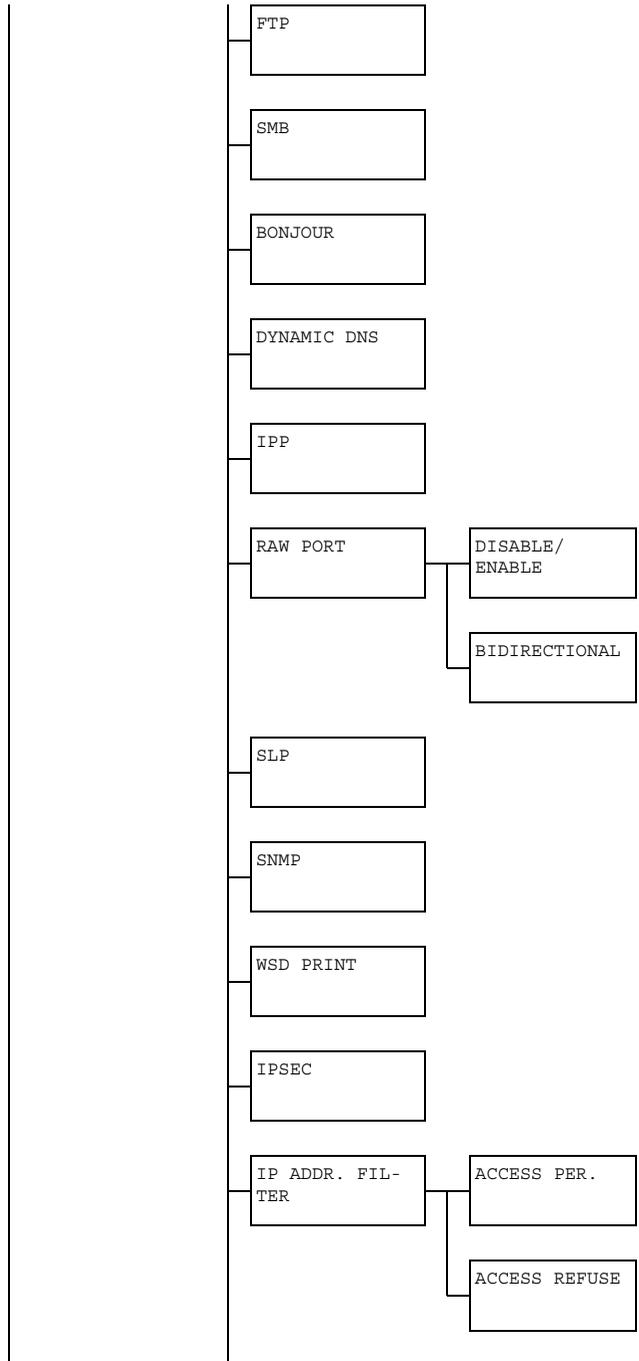
# NETWORK SETTING Menu

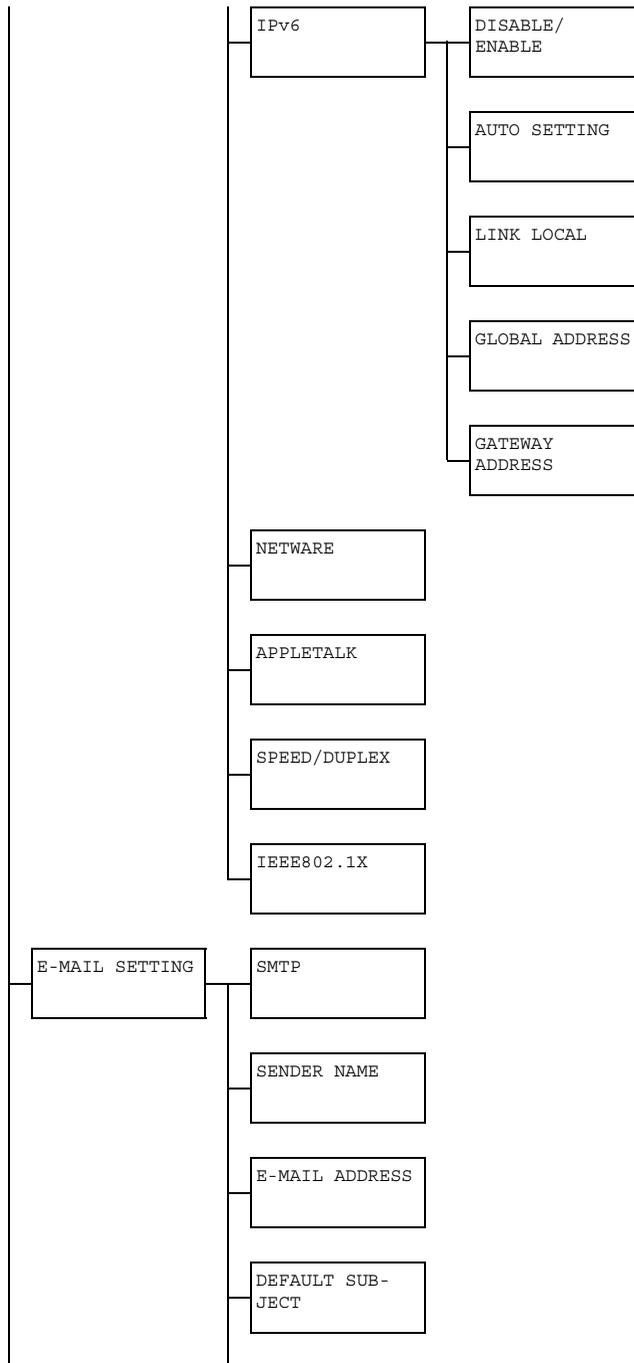
## Location within the Configuration Menu

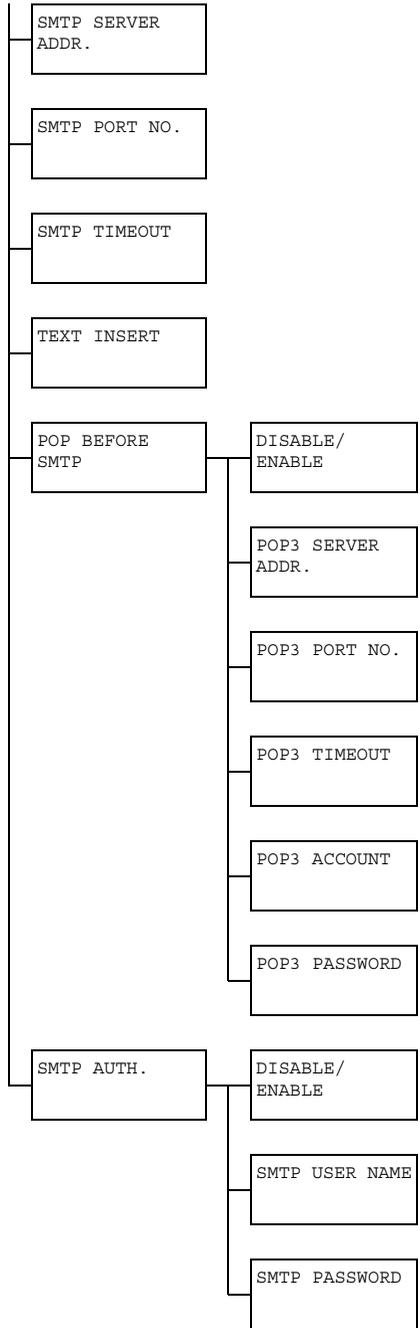


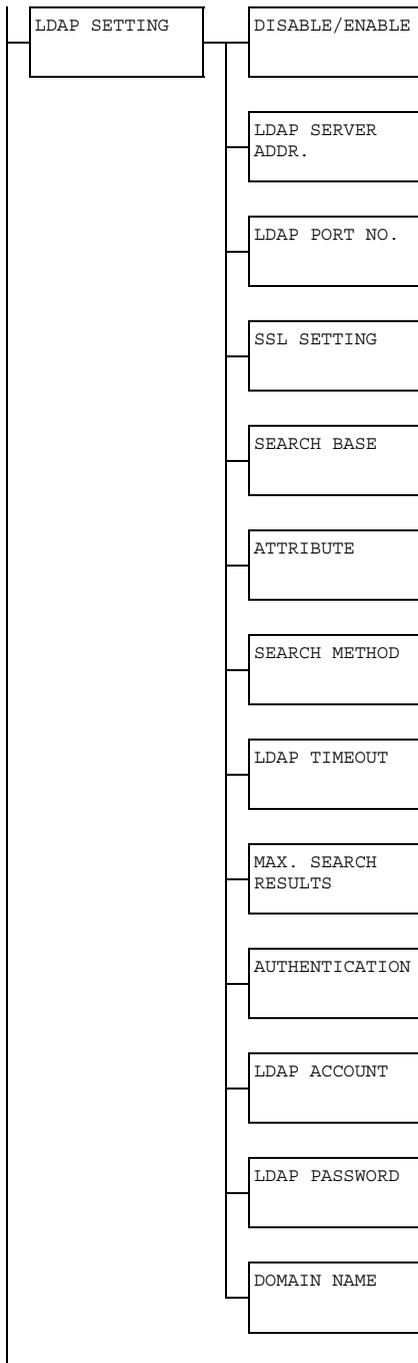
The *ADMIN. MANAGEMENT* menu is accessible only by the administrator. To display the settings for this menu, press **▼** to display *UTILITY*, and press **select** key to display *MACHINE SETTING*, and then select *ADMIN. MANAGEMENT*, use the keypad to type in the 6-digits administrator access code (default : 000000), and then press the **Select** key.

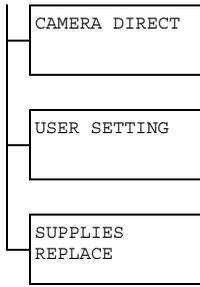












## Accessing the Network Setting Menu

Use the following series of keystrokes at the printer to access the Network Setting menu options on your printer. This menu provides access to all of the configurable network items.

<b>Press this key . . .</b>	(until) the message window reads . . .
▼	UTILITY
<b>Select</b> ↵	MACHINE SETTING
▼	ADMIN. MANAGEMENT
<b>Select</b> ↵	Use the keypad to input 6-digits administrator number.
<b>Select</b> ↵	ADMINISTRATOR NO.
▼	NETWORK SETTING



*The machine is automatically restarted if any of the following Ethernet settings are changed.*

- TCP/IP
- IP ADDRESS (Only when changed from SPECIFY to AUTO)
- DNS - DNS AUTO SETTING (Only when changed from DISABLE to ENABLE)
- DHCP (Only when changed from DISABLE to ENABLE)
- BOOTP (Only when changed from DISABLE to ENABLE)
- ARP/PING (Only when changed from DISABLE to ENABLE)
- IPP
- SLP
- SNMP
- IPv6 - DISABLE/ENABLE
- IPv6 - AUTO SETTING (Only when changed from NO to YES)
- NETWARE
- IEEE802.1X

## Using the Network Setting Menu Options

If the printer is connected to a network, the following settings should be specified. For details about each setting, contact your network administrator.



To manually specify settings for the IP address, subnet mask and gateway, set **IP ADDR. SETTING** to **SPECIFY**.



When entering the IP address, do not enter a class D (between 224.0.0.0 and 239.255.255.255) or class E (between 240.0.0.0 and 255.255.255.255) IP address.  
In addition, "255" cannot be entered as the last three digits of the IP address.

### TCP/IP

<b>Purpose</b>	Enables or disables TCP/IP.  If <b>ENABLE</b> is selected, TCP/IP is enabled.  If <b>DISABLE</b> is selected, TCP/IP is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

### IP ADDR. SETTING

<b>Purpose</b>	Sets the IP address of this printer on the network.  Sets the subnet mask of the network. The subnet mask allows you to limit access to your printer (for example, according to departmental divisions).  Sets the address of the router/gateway when a router/gateway is used on your network and you allow users outside your network environment to print on your printer.
<b>Options</b>	AUTO/SPECIFY
<b>Default</b>	AUTO  (If <b>IP ADDR. SETTING</b> is set to <b>SPECIFY</b> ) IP ADDRESS: 0.0.0.0 SUBNET MASK: 255.255.255.0 GATEWAY: 0.0.0.0

<b>Range</b>	(If IP ADDR. SETTING is set to SPECIFY) 0-255 for each xxx triplet  Use the keypad to input each number; use the ◀ and ▶ keys to move between triplets.
<b>Notes</b>	A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets.  The <b>Back</b> key can also be used for deleting. To cancel IP Address menu, hold down the <b>Back</b> key for more than one second, and then press the <b>Back</b> key again after all settings have been cleared.

## DNS

### DNS AUTO SETTING

<b>Purpose</b>	Select whether or not the DNS server address is automatically assigned by the DHCP server.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

### SPECIFY

<b>Purpose</b>	Specify a maximum of three DNS server addresses.
<b>Options</b>	DNS1/DNS2/DNS3
<b>Default</b>	0.0.0.0
<b>Range</b>	0-255 for each xxx triplet  Use the keypad to input each number; use the ◀ and ▶ keys to move between triplets.

<b>Notes</b>	<p>A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 _ _”. Use the ◀ and ▶ keys to move between triplets.</p> <p>The <b>Back</b> key can also be used for deleting. To cancel SPECIFY menu, press the <b>Back</b> key twice after all settings have been cleared.</p>
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*When using network scanning and when specifying the SMTP server as a host name instead of as an IP address, be sure to set the IP address of the DNS server.*

## DHCP

<b>Purpose</b>	If there is a DHCP server on the network, specifies whether the IP address and other network information is automatically assigned by the DHCP server.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## BOOTP

<b>Purpose</b>	If there is a BOOTP server on the network, specifies whether the IP address and other network information is automatically assigned by the BOOTP server.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## ARP/PING

<b>Purpose</b>	If the IP address cannot be acquired due to the DHCP or BOOTP address and if a fixed IP address cannot be acquired, the destination IP address of the ICMP (Ping) packet previously received by the machine can be acquired as the IP address of the machine.  If <b>ENABLE</b> is selected, the IP address can be acquired automatically.  If <b>DISABLE</b> is selected, the IP address cannot be acquired automatically.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## HTTP

<b>Purpose</b>	Select whether or not to enable HTTP.  If <b>ENABLE</b> is selected, HTTP is enabled.  If <b>DISABLE</b> is selected, HTTP is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## FTP

<b>Purpose</b>	Select whether or not to enable FTP server.  If <b>ENABLE</b> is selected, FTP server is enabled.  If <b>DISABLE</b> is selected, FTP server is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE



*The FTP server function is to be used only when the printer is being serviced.*

## SMB

<b>Purpose</b>	Select whether or not to enable SMB. If <b>ENABLE</b> is selected, SMB is enabled. If <b>DISABLE</b> is selected, SMB is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## BONJOUR

<b>Purpose</b>	Select whether or not to enable Bonjour. If <b>ENABLE</b> is selected, Bonjour is enabled. If <b>DISABLE</b> is selected, Bonjour is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## DYNAMIC DNS

<b>Purpose</b>	Select whether or not to enable Dynamic DNS. If <b>ENABLE</b> is selected, Dynamic DNS is enabled. If <b>DISABLE</b> is selected, Dynamic DNS is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## IPP

<b>Purpose</b>	Select whether or not to enable IPP. If <b>ENABLE</b> is selected, IPP is enabled. If <b>DISABLE</b> is selected, IPP is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## RAW PORT

### DISABLE/ENABLE

<b>Purpose</b>	Select whether or not to enable Raw port. If <b>ENABLE</b> is selected, Raw port is enabled. If <b>DISABLE</b> is selected, Raw port is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

### BIDIRECTIONAL

<b>Purpose</b>	Select whether or not to enable Bidirectional. If <b>ENABLE</b> is selected, Raw port is enabled for bi-directional communication. If <b>DISABLE</b> is selected, Raw port is disabled for bi-directional communication.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## SLP

<b>Purpose</b>	Select whether or not to enable SLP. If <b>ENABLE</b> is selected, SLP is enabled. If <b>DISABLE</b> is selected, SLP is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## SNMP

<b>Purpose</b>	Select whether or not to enable SNMP. If <b>ENABLE</b> is selected, SNMP is enabled. If <b>DISABLE</b> is selected, SNMP is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## WSD PRINT

<b>Purpose</b>	Select whether or not to enable WSD print. If <b>ENABLE</b> is selected, WSD print is enabled. If <b>DISABLE</b> is selected, WSD print is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	ENABLE

## IPSEC

<b>Purpose</b>	Select whether or not to enable IPsec. If <b>ENABLE</b> is selected, IPsec is enabled. If <b>DISABLE</b> is selected, IPsec is disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## IP ADDR. FILTER

### ACCESS PER.

<b>Purpose</b>	Select whether or not to enable Access Permission transmissions.  When <b>ENABLE</b> is selected, Access Permission transmissions are enabled.  When <b>DISABLE</b> is selected, Access Permission transmissions are disabled.
<b>Options</b>	DISABLE/ENABLE
<b>Default</b>	DISABLE

## ACCESS REFUSE

<b>Purpose</b>	Select whether or not to enable Access Refuse transmissions.  When <code>ENABLE</code> is selected, Access Refuse transmissions are enabled.  When <code>DISABLE</code> is selected, Access Refuse transmissions are disabled.
<b>Options</b>	<code>DISABLE/ENABLE</code>
<b>Default</b>	<code>DISABLE</code>

## IPv6

### DISABLE/ENABLE

<b>Purpose</b>	Select whether or not to enable IPv6.  If <code>ENABLE</code> is selected, IPv6 is enabled.  If <code>DISABLE</code> is selected, IPv6 is disabled.
<b>Options</b>	<code>DISABLE/ENABLE</code>
<b>Default</b>	<code>ENABLE</code>

### AUTO SETTING

<b>Purpose</b>	Select whether or not to enable Auto Setting.  If <code>ENABLE</code> is selected, Auto Setting is enabled.  If <code>DISABLE</code> is selected, Auto Setting is disabled.
<b>Options</b>	<code>YES/NO</code>
<b>Default</b>	<code>YES</code>

### LINK LOCAL

<b>Purpose</b>	Displays the link-local address of IPv6.
----------------	--

### GLOBAL ADDRESS

<b>Purpose</b>	Displays the global address of IPv6.
----------------	--------------------------------------

### GATEWAY ADDRESS

<b>Purpose</b>	Displays the gateway address of IPv6.
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## NETWARE

<b>Purpose</b>	Select whether or not to enable NetWare. If <code>ENABLE</code> is selected, NetWare is enabled. If <code>DISABLE</code> is selected, NetWare is disabled.
<b>Options</b>	<code>DISABLE/ENABLE</code>
<b>Default</b>	<code>DISABLE</code>

## APPLETALK

<b>Purpose</b>	Select whether or not to enable AppleTalk. If <code>ENABLE</code> is selected, AppleTalk is enabled. If <code>DISABLE</code> is selected, AppleTalk is disabled.
<b>Options</b>	<code>DISABLE/ENABLE</code>
<b>Default</b>	<code>ENABLE</code>

## SPEED/DUPLEX

<b>Purpose</b>	Specifies the transmission speed for the network and the transmission method for bi-directional transmission.
<b>Options</b>	<code>AUTO</code> <code>10BASE FULL</code> <code>10BASE HALF</code> <code>100BASE FULL</code> <code>100BASE HALF</code> <code>1000BASE FULL</code>
<b>Default</b>	<code>AUTO</code>

## IEEE802.1X

<b>Purpose</b>	Select whether or not to enable IEEE802.1x. If <code>ENABLE</code> is selected, IEEE802.1x is enabled. If <code>DISABLE</code> is selected, IEEE802.1x is disabled.
<b>Options</b>	<code>DISABLE/ENABLE</code>
<b>Default</b>	<code>DISABLE</code>



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***Network Printing***

---

**5**

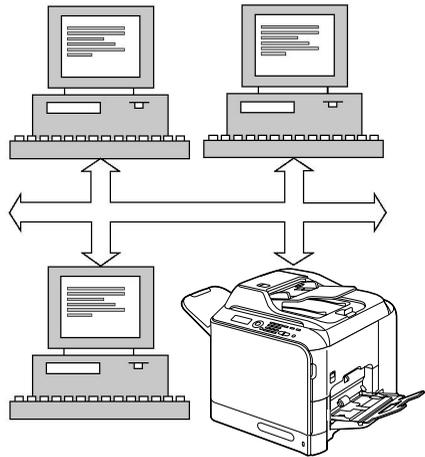
# Network Connection

## Theory

To connect your printer in a TCP/IP network environment, you must make sure that the internal network addresses in the printer have been set.



*In many cases, you have to enter only a unique IP address. However, you may also have to enter a subnet mask and/or a gateway (router) address, depending on your network configuration requirements.*



# Making the Connection

## Ethernet Interface

An RJ45 connector can be used as the Ethernet interface for this printer.

When connecting your printer to an Ethernet network, the tasks you perform depend on how you plan to set the printer's IP (Internet Protocol) address.

- **IP Address**—A unique identifier for each device on a TCP/IP network.
- **Subnet Mask**—A filter used to determine what subnet an IP address belongs to.
- **Gateway**—A node on a network that serves as an entrance to another network.

Since the IP address for each PC and printer on your network must be unique, you usually need to modify this preset address so it doesn't conflict with any other IP address or your network or any attached network. You can do this in one of two ways. Each is explained in detail in the following sections.

- Using DHCP
- Setting the address manually

## Using DHCP

If your network supports DHCP (Dynamic Host Configuration Protocol), the printer's IP address will be automatically assigned by the DHCP server when you turn on the printer. (Refer to "Network Printing" on page 139 for a description of DHCP.)



*If the IP address of the printer is not set automatically, check if the printer has been set to allow DHCP to be used (REPORT/STATUS — REPORT — CONFIGURATION PAGE). If the printer has been set so that DHCP cannot be used, select AUTO in the UTILITY — ADMIN. MANAGEMENT — NETWORK SETTING — IP ADDR. SETTING menu, and ENABLE in the UTILITY — ADMIN. MANAGEMENT — NETWORK SETTING — DHCP menu.*

- 1 Connect your printer to the network.  
*When using an Ethernet cable, plug the RJ45 connector into the Ethernet interface port of the printer.*
- 2 Turn on your PC and printer.
- 3 After the printer's message window is initialized, install the printer driver.

## Setting the Address Manually

You may also manually change the printer's IP address, subnet mask, and gateway by using the following instructions.



*When the IP address is changed, add a new port or reinstall the printer driver.*



### CAUTION

**You should always notify your network's administrator before changing the printer's IP address.**

- 1 Turn on your PC and printer.
- 2 After the machine's message window is initialized, set the IP address.

Press this key . . .	(until) the message window displays . . .
▼	UTILITY
Select ↵	MACHINE SETTING
▼	ADMIN. MANAGEMENT
Select ↵	Use the keypad to input 6-digits administrator number.
Select ↵	ADMINISTRATOR NO.
▼	NETWORK SETTING
Select ↵	TCP/IP
▼	IP ADDR. SETTING
Select ↵	▶ AUTO SPECIFY
▼	AUTO ▶ SPECIFY
Select ↵	SPECIFY ▶ IP ADDRESS SUBNET MASK GATEWAY

<b>Select</b> 	IP ADDRESS :0. 0. 0. 0
<p>Use the keypad to input each number.  A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets.  The <b>Back</b> key can also be used for deleting. To cancel IP Address menu, hold down the <b>Back</b> key for more than one second, and then press the <b>Back</b> key again after all settings have been cleared.</p>	
<b>Select</b> 	SPECIFY ▶ IP ADDRESS SUBNET MASK GATEWAY
	SPECIFY IP ADDRESS ▶ SUBNET MASK GATEWAY
<b>Select</b> 	SUBNET MASK :255.255.255. 0
<p>Use the keypad to input each number.  A single digit number, such as “1”, cannot be input as “001”. Align the number on the left and input “1” as “1 __”. Use the ◀ and ▶ keys to move between triplets.  The <b>Back</b> key can also be used for deleting. To cancel Subnet Mask menu, hold down the <b>Back</b> key for more than one second, and then press the <b>Back</b> key again after all settings have been cleared.</p>	
<b>Select</b> 	SPECIFY IP ADDRESS ▶ SUBNET MASK GATEWAY
	SPECIFY IP ADDRESS SUBNET MASK ▶ GATEWAY
<b>Select</b> 	GATEWAY :0. 0. 0. 0

Use the keypad to input each number.  
 A single digit number, such as "1", cannot be input as "001". Align the number on the left and input "1" as "1 \_\_". Use the ◀ and ▶ keys to move between triplets.  
 The **Back** key can also be used for deleting. To cancel Gateway menu, hold down the **Back** key for more than one second, and then press the **Back** key again after all settings have been cleared.

<b>Select</b> ◀	SPECIFY  IP ADDRESS SUBNET MASK ▶ GATEWAY
--------------------	---

- 3 Print a configuration page to verify that the correct IP address, subnet mask, and gateway have been set.
- 4 After the printer's message window is initialized, install the printer driver.

# Network Printing

Network terms are described below:

- Apple Talk
- Bonjour
- BOOTP
- Dynamic DNS
- DHCP
- DNS
- FTP
- HTTP
- IEEE802.1X
- IPP
- IPsec
- IPv6
- IPX/SPX
- LDAP
- LPD/LPR
- POP Before SMTP
- Port 9100
- SLP
- SMB
- SMTP
- SMTP Authentication
- SNMP
- TCP/IP
- WSD print

This section contains descriptions of these network printing terms.

## **AppleTalk**

A generic name for the protocol suite developed by Apple Computer for computer networking.

## **Bonjour**

Macintosh network technology for automatically detecting devices connected to the network and for specifying settings. Previously called “Rendezvous”, the name was changed to “Bonjour” starting with Mac OS X v10.4.

## **BOOTP**

BOOTP (Bootstrap Protocol) is an Internet protocol that enables a diskless workstation to discover (1) its own IP address, (2) the IP address of a BOOTP server on the network, and (3) a file that can be loaded into memory to boot the workstation. This enables the workstation to boot without requiring a hard or floppy disk drive.

## **DDNS (Dynamic DNS)**

DDNS (Dynamic Domain Name System) is technology for automatically assigning dynamically assigned IP addresses to fixed domains.

The recent availability of always-on Internet connections has resulted in an increased number of users turning their home computers into publicly accessible Web servers. The IP address supplied by the Internet service provider changes with each connection, complicating public access to the Internet.

By using a DDNS service, home computers can normally be accessed with a fixed host name.

## **DHCP**

DHCP (Dynamic Host Configuration Protocol) is a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device’s IP address can even change while it is still connected. DHCP also supports a mix of static and dynamic IP addresses. Dynamic addressing simplifies network administration because the software keeps track of IP addresses rather than requiring an administrator to manage the task. This means that a new computer can be added to a network without the hassle of manually assigning it a unique IP address.

## **DNS**

Abbreviation for Domain Name System. A system that acquires the supported IP addresses from host names in a network environment. DNS allows the user to access other computers over a network by specifying host names, instead of difficult to memorize and understand IP addresses.

## **FTP**

Abbreviation for File Transfer Protocol. A protocol for transferring files over the Internet or an intranet on the TCP/IP network.

## **HTTP**

HTTP (HyperText Transfer Protocol) is the underlying protocol used by the World Wide Web. It defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands. For example, when you enter a URL in your browser, this actually sends an HTTP command to the Web server directing it to fetch and transmit the requested web page.

## **IEEE802.1x**

This protocol for determining the user authentication method within the LAN is compatible with wireless and wired LANs. Using the RADIUS server for user authentication, communication with authenticated users is permitted while all communication from unauthenticated clients is blocked, excluding authentication requests.

## **IPP**

IPP (Internet Printing Protocol) is a protocol for end users' most common printing situations over the Internet. It allows users to find out about a printer's capabilities, submit print jobs to a printer, determine the status of the printer or print job, and cancel a previously submitted print job.

For more information on using IPP, See "Printing via IPP (Internet Printing Protocol)" on page 145.

## **IPsec**

The security technology that is used with TCP/IP. A service with enhanced security can be provided by specifying the encryption of transmission packets and the authentication protocol.

## **IPv6**

Abbreviation for Internet Protocol version 6.

A protocol that has been prepared to replace the currently used IPv4 protocol in response to increase in the number of devices that use the Internet.

Additional improvements include 128-bit IP addresses and added security features.

## **IPX/SPX**

IPX/SPX (Internetwork Packet Exchange/Sequenced Packet Exchange) is a networking protocol developed by Novell. It was used mainly in Netware environments as the general LAN protocol, where TCP/IP has become widespread.

## **LDAP**

On a TCP/IP network, such as the Internet or an intranet, LDAP (Lightweight Directory Access Protocol) is a protocol that is used to access a database for managing environment information and the e-mail addresses of network users.

## **LPD/LPR**

LPD/LPR (Line Printer Daemon/Line Printer Remote) is a platform-independent printing protocol that runs over TCP/IP. Originally implemented for BSD UNIX, its use has spread into the desktop world and is now an industry standard.

## **POP Before SMTP**

A user authentication method for sending E-mail messages. First, the reception operation is performed and the user is authenticated by the POP server. Then, IP addresses where the user was successfully authenticated by the POP server are permitted to use the SMTP server. This method prevents third parties without permission to use the mail server from sending mail messages.

## **Port 9100**

When printing through a network, TCP/IP port number 9100 can be used to send raw data.

## **SLP**

Traditionally, in order to locate services on the network, users had to supply the host name or network address of the machine providing the desired service. This has created many administrative problems.

However, SLP (Service Location Protocol) simplifies the discovery and use of network resources such as printers by automating a number of network services. It provides a framework that allows networking applications to discover the existence, location, and configuration of networked services.

With SLP users no longer need to know the names of network hosts. Instead, they need to know only the description of the service they are interested in. Based on this description, SLP is able to return the URL of the desired service.

### **Unicast, Multicast, and Broadcast**

SLP is a unicast and a multicast protocol. This means that messages can be sent to one agent at a time (unicast) or to all agents (that are listening) at the same time (multicast). However, a multicast is not a broadcast. In theory, broadcast messages are “heard” by every node on the network. Multicast differs from broadcast because multicast messages are only “heard” by the nodes on the network that have “joined the multicast group.”

For obvious reasons network routers filter almost all broadcast traffic. This means that broadcasts that are generated on one subnet will not be “routed” or forwarded to any of the other subnets connected to the router (from the router’s perspective, a subnet is all machines connected to one of its ports). Multicasts, on the other hand, are forwarded by routers. Multicast traffic from a given group is forwarded by routers to all subnets that have at least one machine that is interested in receiving the multicast for that group.

## **SMB**

SMB (Server Message Block) is a protocol for sharing network resources, such as files and printers, in a Windows environment. If the Samba server software is used on Linux or UNIX, services using SMB can be shared.

## **SMTP**

SMTP (Simple Mail Transfer Protocol) is a protocol for sending E-mail.

This protocol was originally used to send E-mail between servers; This protocol was originally used to send E-mail between servers; however, currently it is also used by client E-mail software that uses POP to send E-mail to servers.

## **SMTP Authentication**

Specification that adds user authentication functions to SMTP, which is used for sending E-mail.

When sending E-mail, authentication of the user is performed by the SMTP server, and the E-mail message is permitted to be sent only if authentication was successful.

## **SNMP**

SNMP (Simple Network Management Protocol) is actually a set of protocols for managing complex networks. SNMP works by sending messages to different parts of a network. SNMP-compliant devices, called agents, store data about themselves in Management Information Bases (MIBs) and return this data to the SNMP requesters.

## **TCP/IP**

Most networks combine TCP (Transmission Control Protocol) with the lower-level protocol IP (Internet Protocol). TCP establishes a virtual connection between two host systems and guarantees the delivery of data between them while IP specifies the format and addressing of this data sent between these two host systems.

## **WSD print**

Printing is possible using the WSD (Web Service on Devices) function installed in Windows Vista. A connection supports WSD, detects the printer on the network automatically and connects. Specifying a WSD printer when printing from Windows Vista allows printing using Web service for communication.

## Printing via IPP (Internet Printing Protocol)



You must have administrator privileges in order to install the printer driver.



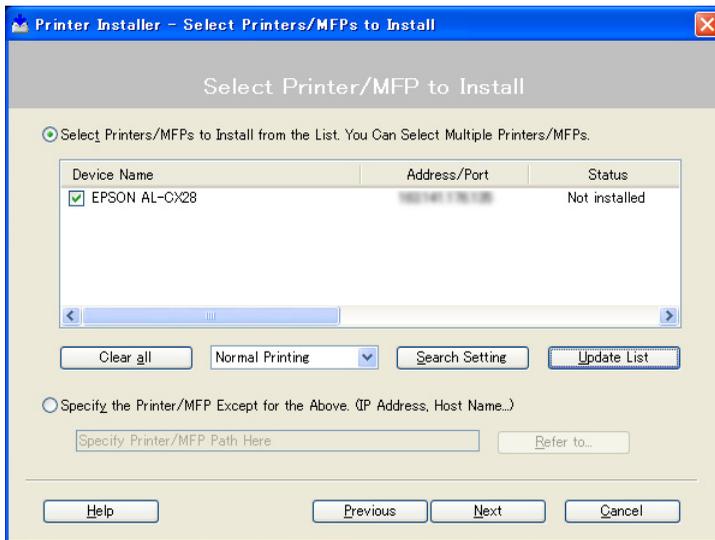
If the User Account Control window appears when installing on Windows Vista, click the **Allow** button or the **Continue** button.

## Adding an IPP Port using the software CD-ROM



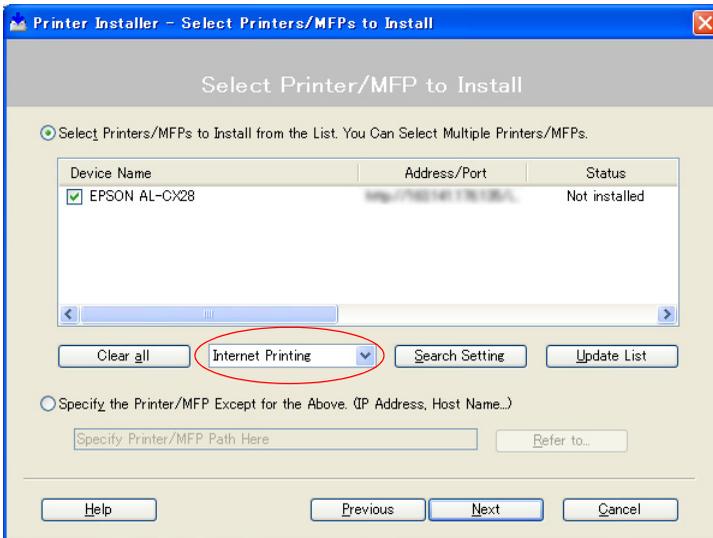
For IPP printing, specify the network setting. Refer to “Making the Connection” on page 135 and “IPP” on page 141.

- 1 Insert the software CD-ROM in the CD-ROM/DVD drive of your computer. The installer starts up.
- 2 Click **English**.
- 3 Click **Driver Setup**.
- 4 Click **Network**.
- 5 Click **Printer**, and then click **Install**.
- 6 Click **AGREE**.
- 7 Click **Next**.
- 8 Select **Install printers/MFPs**, and then click **Next**.
- 9 The connected printers are detected. Select this printer.

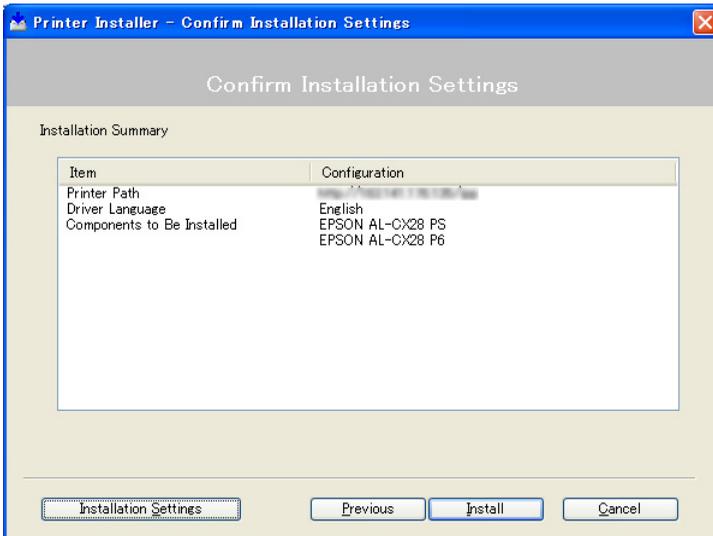


- [Search Setting]: To search for printers on other networks, click this button.

- [Update List]: To update the printer information, click this button.
- 10 Select **Internet Printing** as the printing method from the pull-down list, and then click **Next**.

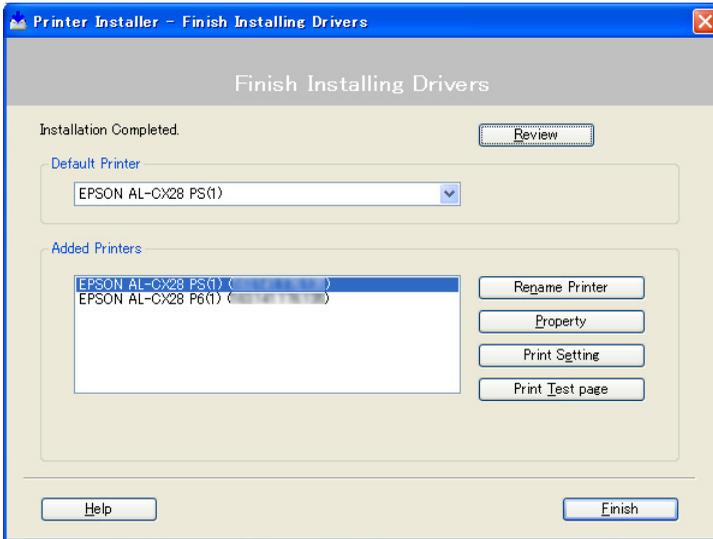


- 11 In the Confirm Installation Settings dialog box, click **Install**.



- [Installation Settings]: To change the settings, click this button.

## 12 Click **Finish**.



This completes the installation of the printer driver.

## Adding an IPP Port using Add Printer Wizard – Windows Server 2003/XP/2000

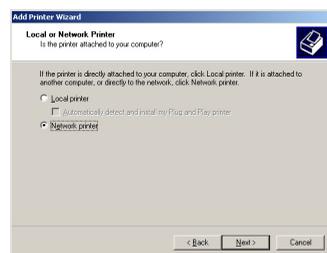
- For Windows Server 2003/XP: Click **Start**, select **Printers and Faxes**, and then click **Add Printer**.
- For Windows 2000: Click **Start**, point to **Settings**, click **Printers**, and then click **Add Printer**.

1 In the second dialog box select the **Network Printer** radio button and then choose **Next**.

### Windows Server 2003/XP



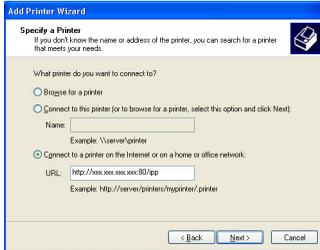
### Windows 2000



2 In the URL field in the next dialog box enter the printer's network path-name in one of the following formats and then choose **Next**:

- `http://ipaddress/ipp`
- `http://ipaddress:80/ipp`
- `http://ipaddress:631/ipp`

### Windows Server 2003/XP



### Windows 2000



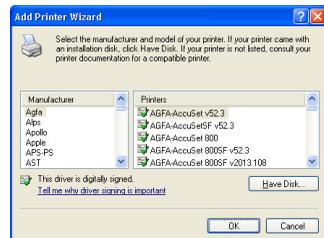
If your system cannot connect to the printer, the following message appears:

- **Windows Server 2003/XP**—“Windows cannot connect to the printer. Either the printer name was typed incorrectly, or the specified printer has lost its connection to the server. For more information, click **Help**.”
- **Windows 2000**—“Could not connect to the printer. You either entered a printer name that was incorrect or the specified printer is no longer connected to the server. Click **Help** for more information.”

3 **Windows Server 2003/XP**—Go to step 4.

**Windows 2000**—If you entered a valid path in the previous step, the following message displays: “The server on which the AL-CX28 printer resides does not have the correct printer driver. If you want to install the driver on your local computer, click **OK**.” The reason for this is that you do not yet have a printer driver installed. Choose **OK**.

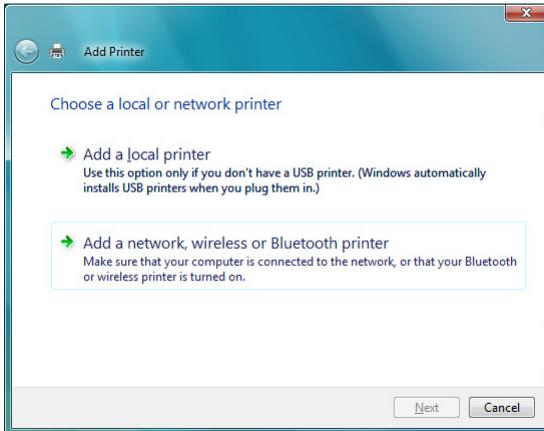
4 Choose **Have Disk**, locate the directory on the CD where the printer driver files are located (for example: `Windows\Printer Driver\color\Drivers\Win_x86\PS\English`), and then choose **OK**.



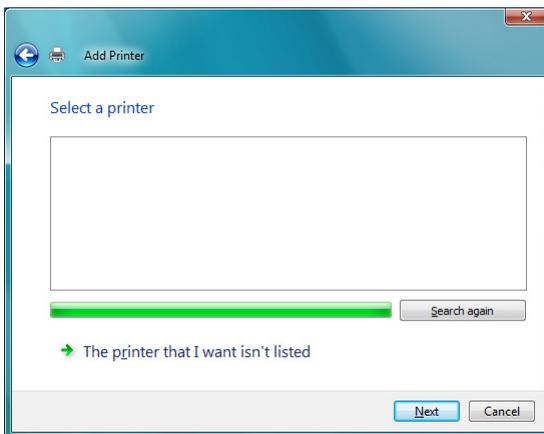
5 Finish installing the printer driver.

## Adding an IPP Port using Add Printer Wizard – Windows Vista

- 1 Click **Start**, click **Control Panel**, and then click **Printers**.
- 2 Click **Add a printer**.
- 3 In the dialog box click **Add a network, wireless or Bluetooth printer**.

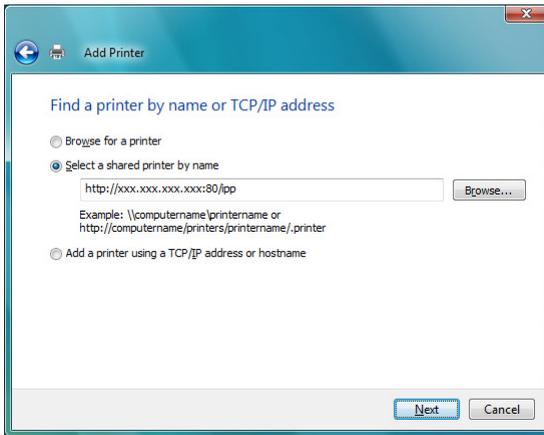


- 4 In the dialog box, click **The printer that I want isn't listed**.



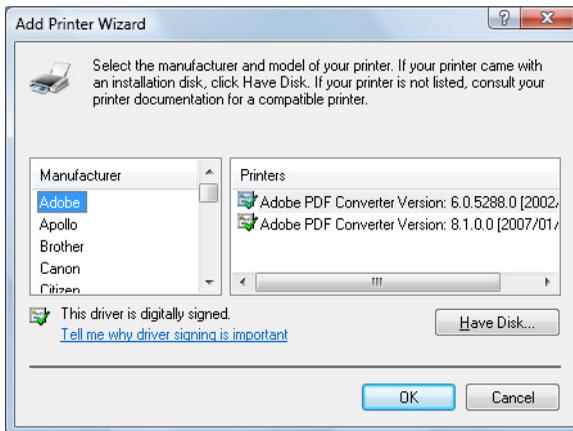
5 In the URL field in the next dialog box enter the printer's network path-name in one of the following formats and then choose **Next**:

- `http://ipaddress/ipp`
- `http://ipaddress:80/ipp`
- `http://ipaddress:631/ipp`



If your system cannot connect to the machine, the following message appears: "Windows cannot connect to the printer. Make sure that you have typed the name correctly, and that the printer is connected to network."

6 Choose **Have Disk**, locate the directory on the CD where the printer driver files are located (for example: `Windows\Printer Driver\color\Drivers\Win_x86\PS\English`), and then choose **Next**.



7 Finish installing the printer driver.

## Printing via Web Service Print Function

In Windows Vista, printers on the network that support Web Service print can be detected and installed.



*You must have administrator privileges in order to install the printer driver.*



*Before proceeding with the installation, be sure to exit all running applications.*



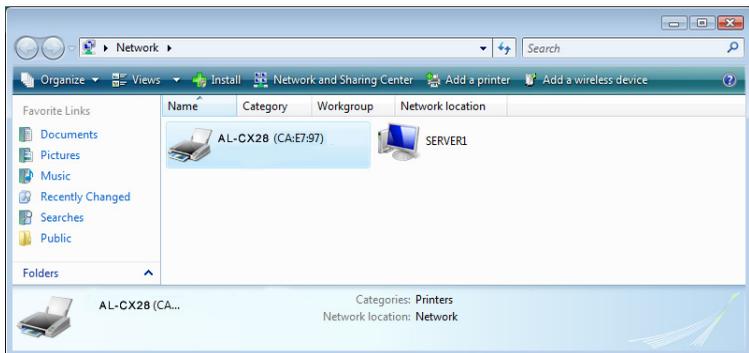
*If the User Account Control window appears when installing, click the **Allow** button or the **Continue** button.*



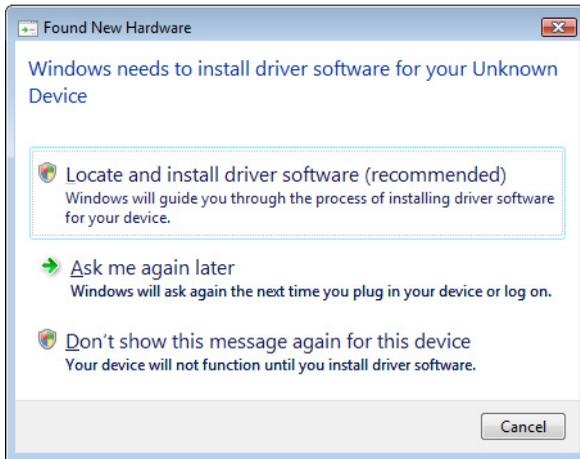
*For Web Service print, specify the network setting. Refer to “Making the Connection” on page 135 and “WSD print” on page 144.*

## Adding a printer from the Network window

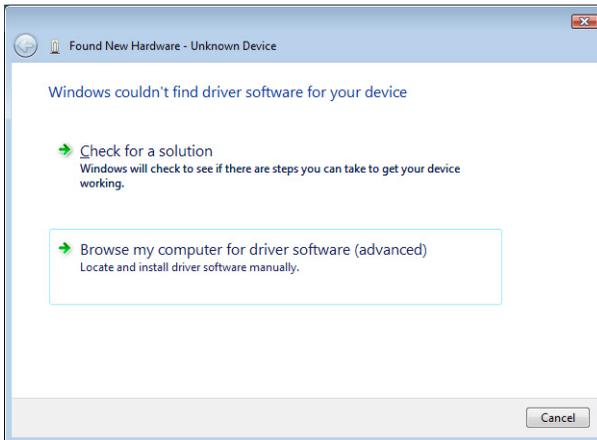
- 1 To use Web Service print, check that **Network discovery** is enabled in **Network and Sharing Center** on the computer.
- 2 Insert the software CD-ROM in the CD-ROM/DVD drive of your computer. The installer starts up.
- 3 Exit the installer.
- 4 Click **Start**, and then click **Network**.  
The Network window appears, showing the computers and devices on the network.
- 5 Select the device name of this printer, and then click **Install** on the toolbar.



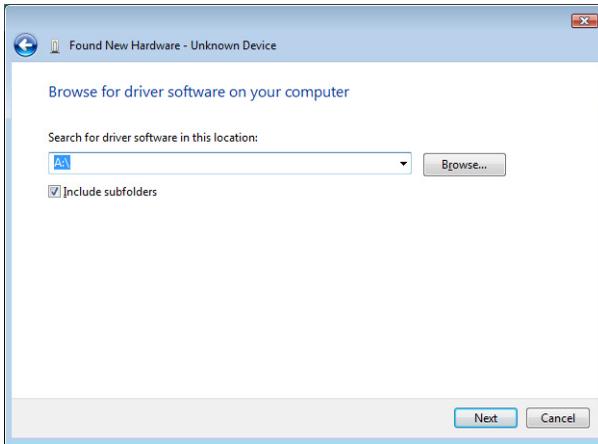
**6** Click **Locate and install driver software (recommended)**.



**7** Click **Browse my computer for driver software (advanced)**.



- 8 Click **Browse**, locate the directory on the CD where the printer driver files are located (for example : Windows\Printer Driver\color\ Drivers\Win\_x86\PS\English), and then click **OK**.

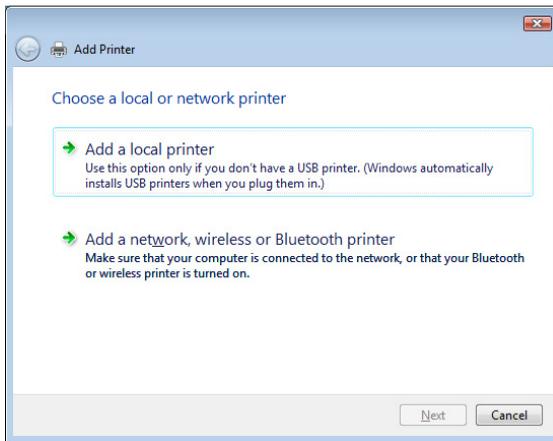


- 9 Click **Next**.  
10 Click **Close**.

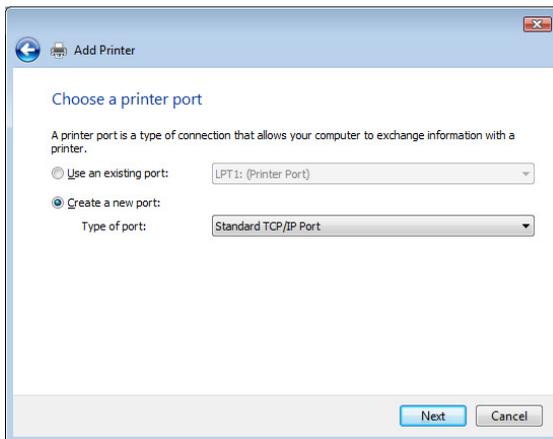
## Adding a printer using Add Printer Wizard

- 1 To use Web Service print, check that **Network discovery** is enabled in **Network and Sharing Center** on the computer.
- 2 Insert the software CD-ROM in the CD-ROM/DVD drive of your computer. The installer starts up.
- 3 Exit the installer.
- 4 Click **Start**, click **Control Panel**, and then click **Printers**.
- 5 Click **Add a printer** on the toolbar.

6 In the dialog box, click **Add a local printer**.

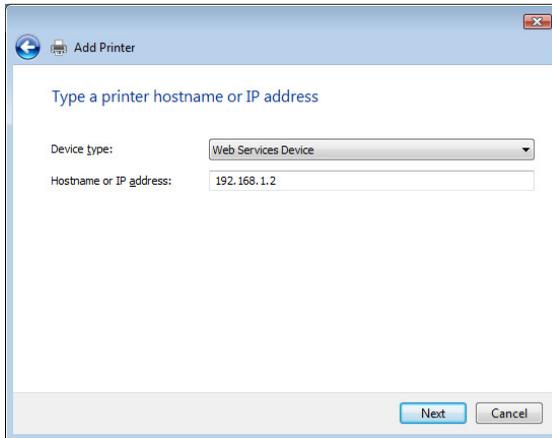


7 Click **Create a new port**, and then select **Standard TCP/IP port**.



8 Click **Next**.

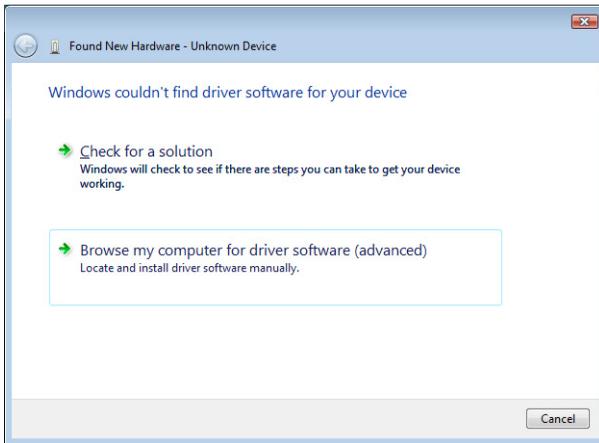
- 9 Select **Web Services Device** and type the IP address for the printer, and then click **Next**. The Found New Hardware Wizard dialog box appears.



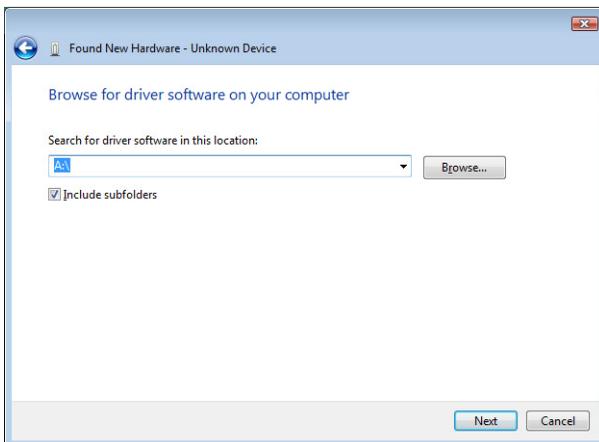
- 10 Click **Locate and install driver software (recommended)**.



11 Click **Browse my computer for driver software (advanced)**.



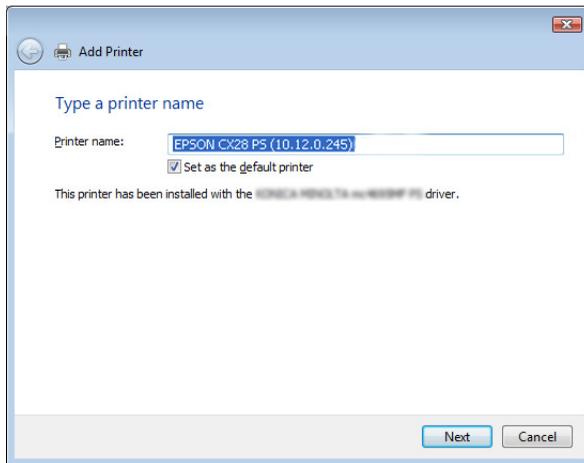
12 Click **Browse**, locate the directory on the CD where the printer driver files are located (for example : Windows\Printer Driver\color\Drivers\Win\_x86\PS\English), and then click **OK**.



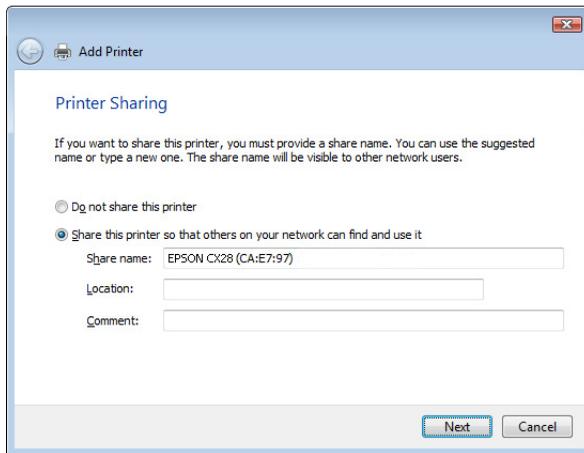
13 Click **Next**.

14 Click **Close**.

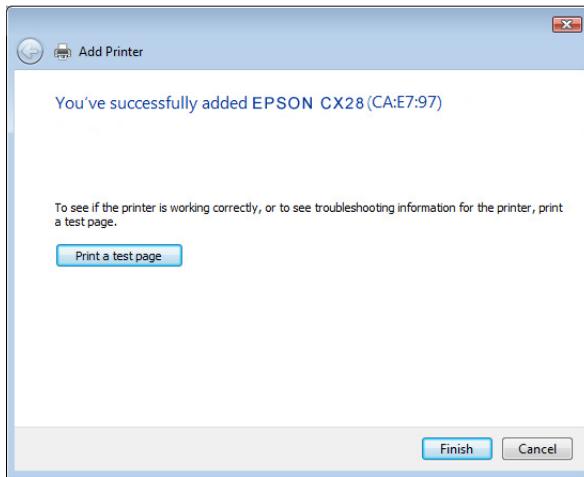
## 15 Click **Next**.



## 16 Select whether the printer driver is to be shared, and then click **Next**.



17 Click **Finish**. This completes the installation of the printer driver.



# Troubleshooting

Symptom	Action
Some client functions are not available with the Point and Print feature when the server is running Windows Vista/XP/Server 2003/2000 and the client computer is running Windows Vista/XP/Server 2003/2000.	Install the printer driver directly on the client computer.



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***Using Web-Based  
EpsonNet Config***

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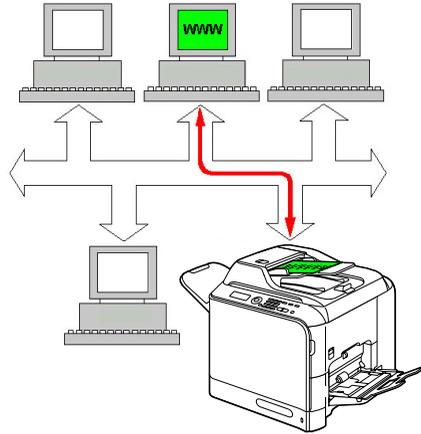
**6**

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# About Web-Based EpsonNet Config

This chapter provides information on Web-based EpsonNet config, an HTTP (HyperText Transfer Protocol)-based web page that resides in your printer and that you can access using your Web browser.

This page gives you instant access to printer status and the most frequently used printer configuration options. Anyone on your network can access the printer using their web browser software. In addition, with the proper password, you can change the configuration of the printer without leaving your PC.



*Users who are not given passwords by the administrator can still view the configuration settings and options but are not able to save or apply changes.*

## Display Language

The language used in the Web-based EpsonNet config screen is specified from the machine's control panel. For details, refer to the User's Guide on the software CD-ROM.

In addition, the language can be selected from the **Language** drop-down list in Web-based EpsonNet config. For details, refer to "Language Setting" on page 170.

## Requirements

To use Web-based EpsonNet config, the following is required:

- Windows Vista/Server 2003/XP/2000 , Mac OS X10.2 or later
- Microsoft Internet Explorer version 6 or later
- Netscape Navigator version 7 or later



*You do not need an Internet connection.*

- TCP/IP communication software (used by Web-based EpsonNet config) installed on your PC
- A network, to which both your PC and the printer are connected



*You cannot access Web-based EpsonNet config using a local (USB) connection.*

# Setting Up the Printer Web Page

Setting up the printer web page to run on your network involves two basic steps:

- Determining the name or address of your printer
- Setting up the “no proxy” preferences in your browser software

## Determining the Printer Name

The printer web page can be accessed in two ways:

- Through the assigned name of the printer—This name comes from the IP host table (the filename is **hosts**) on the computer system and is usually assigned by the system administrator (for example, AL-CX28). It may be more convenient for you to use the printer name than the IP address.

### ***Location of the Host Table on the PC***

- Windows Vista/Server 2003/XP  
  \windows\system32\drivers\etc\hosts
- Windows 2000  
  \winnt\system32\drivers\etc\hosts
- Through the printer’s IP address—The IP address of your printer is a unique number and, therefore, may be the preferred identification to enter, especially if you have more printers active in your network. The printer’s IP address is listed on the configuration page.

## Setting Up Your Browser Software

Since your printer resides on your intranet and is not accessible beyond the firewall of your network, you must set up the proper “preferences” in your browser software. Your printer name or IP address must be added to the “no proxy” list in the preferences dialog box of the browser.



*You need to do this procedure only once.*

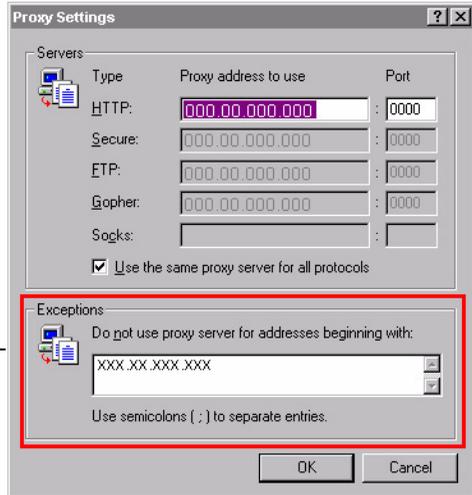
The sample screens below may be different from yours depending on software versions and operating systems in use.



Our examples represent the IP address of the printer with xxx.xxx.xxx.xxx. Always enter your printer's IP address without leading zeros. For example, 192.168.001.002 should be entered as 192.168.1.2.

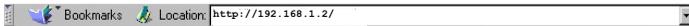
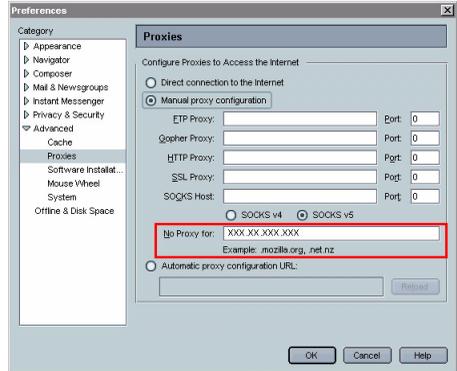
## Internet Explorer (version 6.0 for Windows)

- 1 Start Internet Explorer.
- 2 From the **Tools** menu choose **Internet Options**.
- 3 Select the **Connections** tab on the dialog box.
- 4 Choose the **LAN Settings** button to display the Local Area Network (LAN) Settings dialog box.
- 5 Select **Advanced** in Proxy server to open the Proxy Settings dialog box.
- 6 In the **Exceptions** text box, type a comma after the last entry and then type the printer name or the IP address of your printer.
- 7 Choose **OK** three times to return to the main browser window.
- 8 Enter the printer's IP address in the URL Address box to access the printer home page.



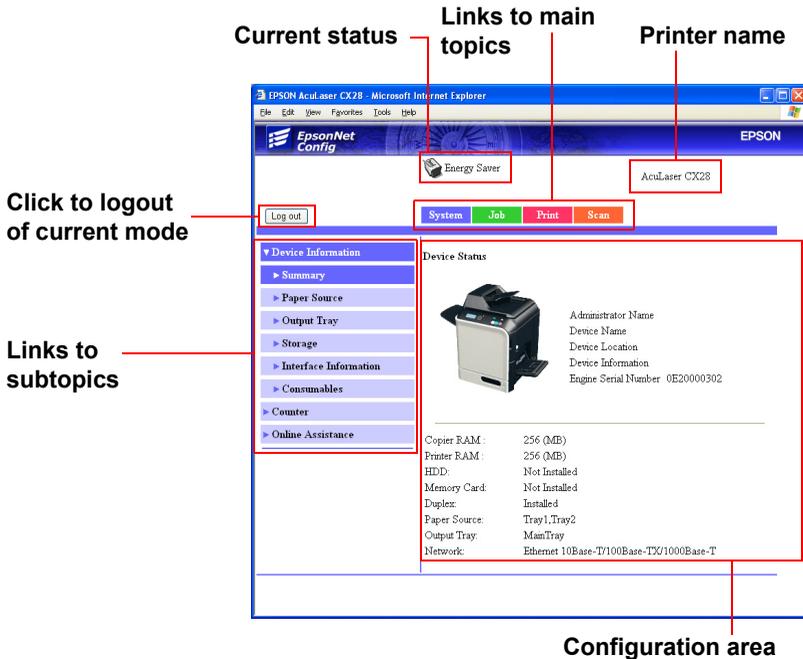
## Netscape Navigator (version 7.1)

- 1 Start Netscape Navigator.
- 2 From the **Edit** menu choose **Preferences**.
- 3 Select the **Advanced/Proxies** directory from the left pane of the dialog box.
- 4 Select the **Manual Proxy Configuration** radio button.
- 5 In the **No Proxy for:** text box, type a comma after the last entry, and then type the printer name or the IP address of your printer.
- 6 Choose **OK** to return to the main browser window.
- 7 Enter the printer name or IP address in the URL Location box to access the printer home page.



# Understanding the Web-Based EpsonNet Config Window

The illustration below identifies the navigation and configuration areas of the windows that you see in Web-based EpsonNet config windows.



## Navigation

Selecting the main topic and subtopic displays the configuration area for the printer options (parameters) associated with your selections.

To change a current setting, click on the current setting and then select from the available choices or enter the new value.



*In order to apply or save any changes made to the configuration settings, Web-based EpsonNet config must be logged in from Administrator Mode. (For details, refer to "Administrator Mode" on page 171.)*

## Current Status

The current status of the printer is displayed at the top of all Web-based EpsonNet config windows. The icon displays the type of status being displayed.

Icon	Status	Description	Examples
	Ready	The printer is online and either ready to print or printing.	READY PRINTING
	Warning	The printer needs attention, but printing continues.	PLEASE WAIT WARMING UP
	Error	The printer needs attention before printing can resume.	FUSER JAM FRONT COVER OPEN
	Fatal Error	The printer must be rebooted. If that doesn't fix the error, service is required.	MACHINE TROUBLE SERVICE CALL

# Logging on to Web-Based EpsonNet Config

## Login Page

User authentication and language settings can be specified by using Web-based EpsonNet config. In order to perform authentication, you must log on in Administrator Mode. For details on authentication, refer to “Authentication” on page 203 and “User Authentication” on page 295.



*A total of 100 users, including the administrator, can be logged on to Web-based EpsonNet config at the same time from client computers. In addition, public users, registered users, and the administrator can be logged on at the same time. However, only 1 client can be logged on as the Administrator.*

**EpsonNet Config** **EPSON**

**Log in**

Public User  
 Registered User  
 Administrator

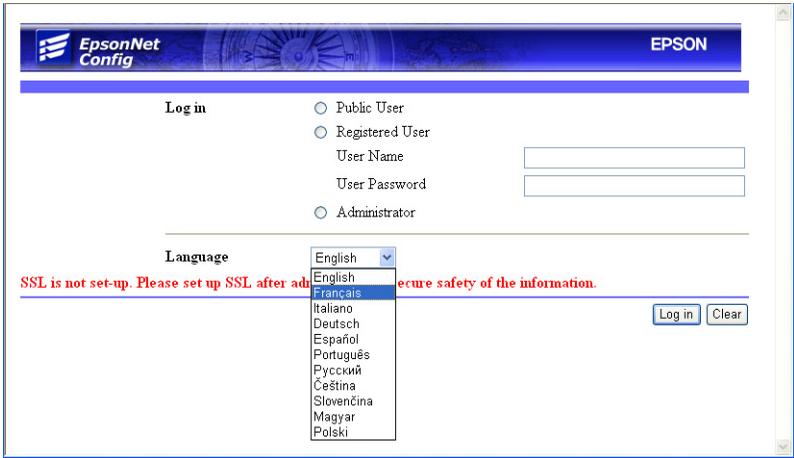
User Name   
User Password

Language

**SSL is not set-up. Please set up SSL after admin logins to secure safety of the information.**

## Language Setting

If necessary, the display language used for EpsonNet Config can be changed.



The screenshot shows the EpsonNet Config web interface. At the top, there is a blue header with the EpsonNet Config logo on the left and the EPSON logo on the right. Below the header, there is a "Log in" section with three radio button options: "Public User", "Registered User", and "Administrator". To the right of these options are two text input fields labeled "User Name" and "User Password". Below the "Log in" section is a "Language" section with a dropdown menu currently set to "English". The dropdown menu is open, showing a list of languages: English, Français, Italiano, Deutsch, Español, Português, Русский, Čeština, Slovenčina, Magyar, and Polski. A red warning message is visible: "SSL is not set-up. Please set up SSL after administrator login to ensure safety of the information." At the bottom right of the form, there are "Log in" and "Clear" buttons.

## Public User Mode

In Public User Mode, you can view configuration settings but not change them.

- 1 Select **Public User**.
- 2 Click the **Log in** button.

## Registered User Mode

In Registered User Mode, you can view configuration settings but not change them.

## User Authentication Mode



To enter User Authentication Mode, log in in Administrator mode, set **User Authentication** (in the **Network - Authentication - User Authentication** page) to **On**, and then register a new user in the **System - Authentication - User Registration - New Registration** page. For details, refer to "User Registration" on page 204 and "User Authentication" on page 295.

- 1 Select **Registered User**.
- 2 Type in the user name and user password in the **User Name** and **User Password** text boxes.

- 3 Click the **Log in** button.

## Administrator Mode

In order to change any configuration settings through Web-based EpsonNet Config, you must first enter Administrator Mode.

- 1 Select **Administrator**.
- 2 Click the **Log in** button.
- 3 Type the password in the **Admin Password** text box.

The screenshot shows a web browser window titled "EpsonNet Config" with the EPSON logo in the top right corner. The main content area features a blue header bar. Below the header, there is a text input field labeled "Admin Password". At the bottom right of the form, there are two buttons: "OK" and "Cancel".

-  *Default password is set to “administrator”, however, once you have logged on in Administrator Mode, the password can be specified in the **System - Admin Password** window.*

- 4 Click **OK** button.

# Viewing Printer Status

## System Page

On this page you find printer status and current configuration settings, printer identification, and links to all other web pages.



*All of the information displayed on the System page is read only.*

## Device Information

### Summary

The **System - Device Information - Summary** window provides the following information.

Item	Description
Copier RAM	Displays the amount of copier memory installed in the machine.
Printer RAM	Displays the amount of printer memory installed in the machine.
HDD	If an optional hard disk drive is installed in the printer, displays the size of the hard disk drive. If no optional hard disk drive is installed in the printer, displays "Not Installed".
Duplex	Identifies whether the duplex is "Installed" or "Not Installed".
Paper Source	Identifies the paper feed units installed on the printer.
Output Tray	Identifies the output tray installed on the machine.
Network	Lists the installed printer interface (Ethernet 10Base-T/100Base-TX/1000Base-T).

## Paper Source

The **System - Device Information - Paper Source** window provides the following information.

Item	Description
Paper Source	Identifies the paper feed units Tray 1/2/3 installed on the machine.
Paper Size	Indicates the size of paper loaded in a specific tray.
Paper Type	Indicates the type of paper loaded in a specific tray.
Paper	Indicates the paper status ("Ready" or "Empty") for each tray.
Detail button	Displays detailed information about the paper trays.

## Paper Source (Detail)

The **System - Device Information - Paper Source - Detail** window provides the following information.

Item	Description
Paper Source	Displays the names of the paper trays.
Paper Size	Displays the paper sizes.
Paper Type	Displays the paper types.
Capacity	Displays the maximum capacity for each paper tray.
Paper	Displays the amount of paper remaining.
Back button	Returns to the previous screen.

## Output Tray

The **System - Device Information - Output Tray** window provides the following information.

Item	Description
Tray	Displays the name of the output tray.
Paper	Displays the status (Ready, Full) of the output tray.

## Storage

The **System - Device Information - Storage** window provides the following information.

Item	Description
Total	Displays the total amount of space on the hard disk. If no optional storages are installed, “-” are displayed.
Used	Displays the amount of space on the hard disk that is used. If no optional storages are installed, “-” are displayed.
Remaining	Displays the amount of space remaining on the hard disk. If no optional storages are installed, “-” are displayed.

## Interface Information

The **System - Device Information - Interface Information** window provides the following information.

Item		Description
Protocol Information	TCP/IP	If Enable is displayed, TCP/IP is enabled. If Disable is selected, TCP/IP is disabled.
	IPv6	If Enable is displayed, IPv6 is enabled. If Disable is selected, IPv6 is disabled.
	Bonjour	If Enable is displayed, Bonjour is enabled. If Disable is selected, Bonjour is disabled.
	FTP TX	If Enable is displayed, FTP transmission is enabled. If Disable is selected, FTP transmission is disabled.
	FTP Server	If Enable is displayed, FTP server function is enabled. If Disable is selected, FTP server function is disabled. For service use only.
	LDAP	If Enable is displayed, LDAP server is enabled. If Disable is selected, LDAP server is disabled.
	SMB	If Enable is displayed, SMB is enabled. If Disable is selected, SMB is disabled.
	Dynamic DNS	If Enable is displayed, Dynamic DNS is enabled. If Disable is selected, Dynamic DNS is disabled.
	IPP	If Enable is displayed, IPP is enabled. If Disable is selected, IPP is disabled.
	LPD	If Enable is displayed, LPD is enabled. If Disable is selected, LPD is disabled.

Item		Description
	RAW Port	If Enable is displayed, RAW Port is enabled. If Disable is selected, RAW Port is disabled.
	SLP	If Enable is displayed, SLP is enabled. If Disable is selected, SLP is disabled.
	SMTP	If Enable is displayed, SMTP is enabled. If Disable is selected, SMTP is disabled.
	SNMP	If Enable is displayed, SNMP is enabled. If Disable is selected, SNMP is disabled.
	WSD Print	If Enable is displayed, WSD Print is enabled. If Disable is selected, WSD Print is disabled.
	AppleTalk	If Enable is displayed, AppleTalk is enabled. If Disable is selected, AppleTalk is disabled.
	NetWare	If Enable is displayed, NetWare is enabled. If Disable is selected, NetWare is disabled.
	IEEE802.1x	If Enable is displayed, IEEE802.1x is enabled.  If Disable is selected, IEEE802.1x is disabled.

<b>Item</b>		<b>Description</b>
Network Information	Type	Identifies the type of network interface installed on the printer (Ethernet 10Base-T/100Base-TX/1000Base-T).
	Ethernet Speed	Indicates the transmission speed for the network and the transmission method for bidirectional transmission.
	IP Address	Identifies the IP (Internet Protocol) address of the Ethernet interface.
	IPv6 Link Local Address	Identifies the IPv6 link local address of the Ethernet interface.
	IPv6 Global Address	Identifies the IPv6 global address of the Ethernet interface.
	MAC Address	Identifies the MAC (Media Access Control) address of the Ethernet interface.
	Host Name	Identifies the host name for the printer.
	Print Server Name (NetWare)	Identifies the Print Server Name for the NetWare.
	Printer Name (AppleTalk)	Identifies the printer name on AppleTalk.
	Current Zone Name (AppleTalk)	Identifies the Current Zone Name for the AppleTalk.
	Bonjour Name	Displays the Bonjour name for the printer.
	WSD Printer Name	Displays the WSD printer name for the printer.

## Consumables

The **System - Device Information - Consumables** window provides the following information.

Item	Description
Consumables	Identifies the type of consumable that is being monitored.
Status	Indicates the remaining life of the consumables. <ul style="list-style-type: none"><li>■ Toner Cartridge, Imaging Unit, Transfer Belt, Transfer Roller, Fuser Unit: Percentage</li><li>■ Waste Toner Bottle: Ready, Near Full, or Full</li></ul>
TYPE	Identifies the type of Toner Cartridge. <ul style="list-style-type: none"><li>■ Starter, Standard, High</li></ul>

## Counter

The **System - Counter** window provides the following information.

Item	Description
Total Print	Indicates the total number of all printed pages. <ul style="list-style-type: none"><li>■ Total Faces Counter, Color Copy, Color Print, Mono Copy, Mono Print, Total Duplex Counter, Duplex Color Copy, Duplex Color Print, Duplex Mono Copy, Duplex Mono Print</li></ul>
Normalized Total Faces Counter	The number of printed pages is displayed calculated in terms of A4-size paper. <ul style="list-style-type: none"><li>■ Color Faces Printed, Monochrome Faces Printed, Total</li></ul>
Scan Counter	Indicates the total number of scanned pages. <ul style="list-style-type: none"><li>■ IR, ADFR (Single), ADFR (Duplex)</li></ul>
Tray Counter	Indicates the total number of pages for each tray setting. <ul style="list-style-type: none"><li>■ Tray 1, Tray 2, Tray 3 (when installed)</li></ul>
Paper Size Counter	Indicates the total number of pages for each paper size. <ul style="list-style-type: none"><li>■ A4, B5 (JIS), A5, Legal, Letter, Others</li></ul>
Paper Type Counter	Indicates the total number of pages for each paper type. <ul style="list-style-type: none"><li>■ Plain Paper, Recycled, Thick 1, Thick 2, Glossy 1, Glossy 2, Transparency, Envelope, Letterhead, Postcard, Label</li></ul>

Item	Description
Application Counter	Indicates the total number of pages for each application. <ul style="list-style-type: none"> <li>■ Copy Print, Report output print, PC print, Scan To E-mail, Scan To FTP, Scan To SMB, Scan to USB, TWAIN, Pict-Bridge, Memory Direct</li> </ul>

## Online Assistance

The **System - Online Assistance** window provides the following information.

Item	Description
Contact	Displays the organization responsible for providing assistance with the machine.
Contact Information	Displays the web site address for assistance.
Product Help URL	Displays the help web site address for machine assistance.
Corporate URL	Displays the Epson corporate web site address.
Supplies and Accessories	Displays the web site address where you can purchase machine supplies and accessories.
Contact Phone Number	Displays the telephone number of the printer administrator.
Contact Address	Displays the e-mail address for support.
Contact Utility Link	Displays the link to the Printer Management Utilities.

## User Authentication



*This page appears only when logged on to Registered User Mode.*

### User Password Change

The password for the user who is logged on can be changed from the **System - User Authentication - User Password Change** page.

Item	Description
User Name	Shows the name of the user who is logged on.
Current Password	Type in the current password for the user who is logged on.  Range: Up to 64 characters Default: [Blank]
New Password	Type in the new password.  Range: Up to 64 characters Default: [Blank]
Retype New Password	Type in the new password again for confirmation.  Range: Up to 64 characters Default: [Blank]
Apply button	Applies the new password.   <i>If the password typed in three text boxes doesn't match, the following message displays when you choose the <b>Apply</b> button: "Password was changed unsuccessfully. Please retry." Retype the passwords in both text boxes.</i>
Clear button	Resets all configuration settings to previous values.

### Registration Information

The registration information for the user who is logged on can be checked from the **System - User Authentication - Registration Information** page.

Item	Description
Registration User Information	Shows the registration number (No.) and user name for the user who is logged on.
Function Permission Information	Shows whether printing is permitted by the user who is logged on.

Item	Description
Output Permission Information	Shows whether color printing and whether black-and-white printing is permitted by the user who is logged on.

## Job Page

This page allows you to view the status of current print jobs.

### Active Job List

The **Job - Active Job List** window provides the following information for up to 45 print jobs:

Item	Description
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
Job Status	Displays the current status of the print job (Parsing, Printing, Cancel, Pending or Abort).
Create Time	Displays the time that the job was queued.
Delete button	Deletes the print job(s) that applies to the checked boxes.

### Done Job List

The **Job - Done Job List** window provides the following information for up to 50 print jobs:

Item	Description
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
End Time	Displays the time that the printing is finished.
Result	Displays the result of the print job (OK, Error, or Canceled).

<b>Item</b>	<b>Description</b>
Detail button	Displays a screen containing details.

## **Done Job List (Detail)**

The **Job - Done Job List - Detail** window provides the following information for the selected job:

<b>Item</b>	<b>Description</b>
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
Delivery Type	Displays the delivery method for the job (Print, Print and Hold, Proof then Print, IPP Print, Secured Job, Time Print or Report Print).
Create Time	Displays the time that the job was queued.
End Time	Displays the time that the printing is finished.
Result	Displays the result of the print job (OK, Error, or Canceled).
Back button	Returns to the previous screen.

# Print Page

This page allows you to check the settings for printing when there is no PDL printer driver.

## Default Settings

### General Settings

The **Print - Default Settings - General Settings** window provides the following information.

Item	Description
PDL	Indicates default language to be selected.
Paper Source	The paper tray that is normally used is indicated.
Duplex	If <b>Long-Edge Binding</b> is indicated, the pages will be printed on both sides of the paper for long-edge binding.  If <b>Short-Edge Binding</b> is indicated, the pages will be printed on both sides of the paper for short-edge binding.
Output Tray	Displays the name of the output tray.
Copies	Indicates the default setting for number of copies to be printed.
Paper Size	Indicates the default setting for the size of paper.
Width	Indicates the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .
Length	Indicates the paper length when <b>Paper Size</b> is set to <b>Custom Size</b> .
Paper Type	Indicates the default setting for the type of paper.
Collate	If <b>On</b> is indicated, all pages in a copy of the document can be printed before printing the next copy.  If <b>Off</b> is indicated, all copies of the document are not printed separately.   <i>This menu item appears only if an optional hard disk drive is installed.</i>

## Paper Source Settings

The **Print - Default Settings - Paper Source Settings** window provides the following information.

Item		Description
Tray1	Paper Size	Indicates the setting for the size of paper loaded into Tray 1.
	Width	Indicates the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .
	Length	Indicates the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .
	Paper Type	Indicates the setting for the type of paper loaded into Tray 1.
Tray2	Paper Size	Indicates the setting for the size of paper loaded into Tray 2.
	Width	Indicates the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .
	Length	Indicates the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .
	Paper Type	Indicates the setting for the type of paper loaded into Tray 2.
Tray3 This item appears only if an optional lower feeder unit is installed.	Paper Size	Indicates the setting for the size of paper loaded into Tray 3.
	Paper Type	Indicates the setting for the type of paper loaded into Tray 3.

Item			Description
Any Tray Setting	Tray1	Paper Size	Indicates whether Any Paper Size setting for Tray1 is enabled or disabled.
		Paper Type	Indicates whether Any Media Type setting for Tray1 is enabled or disabled.
	Tray2	Paper Size	Indicates whether Any Paper Size setting for Tray2 is enabled or disabled.
		Paper Type	Indicates whether Any Media Type setting for Tray2 is enabled or disabled.
	Tray3 This item appears only if an optional lower feeder unit is installed.	Paper Type	Indicates whether Any Media Type setting for Tray3 is enabled or disabled.
	Tray Chaining		

## Tray Mapping Settings

The **Print - Default Settings - Tray Mapping Settings** window provides the following information.

Item	Description
Tray Mapping Mode	If <b>On</b> is indicated, Tray Mapping function is used. If <b>Off</b> is indicated, Tray Mapping function is not used.
Logical Tray 0-9	Indicates the tray that is used for printing when a print job is received from another manufacturer's printer driver.

## PCL Settings

The **Print - Default Settings - PCL Settings** window provides the following information.

Item	Description
Font Number	Displays the default font in the PCL language.
Symbol Set	Displays the symbol set used with the PCL language.
Lines Per Page	Indicates how many lines are in a page in PCL language.
Font Point Size	Displays the font size in the PCL language.
Font Pitch Size	Displays the font pitch in the PCL language.
CR/LF Mapping	Indicates CR/LF code definition in PCL language.

## PS Settings

The **Print - Default Settings - PS Settings** window provides the following information.

Item	Description
Wait Timeout	Indicates Postscript timeout. "0" means that no time-out control is effective.
PS Protocol	Displays the settings for the PS protocol.
Print to PS Error	Displays whether or not error printing is performed.

## Print Quality Settings

The **Print - Default Settings - Print Quality Settings** window provides the following information.

Item		Description
Print Quality Settings	Color Mode	If <b>Color</b> is indicated, the pages are printed in full color. If <b>Monochrome</b> is indicated, the pages are printed in black and white.
	Color Separation	If <b>On</b> is indicated, color separation is performed. If <b>Off</b> is indicated, color separation is not performed.
	Brightness	Indicates the brightness of the printed image.
	Halftone (Image/Text/ Graphics Printing)	Indicates how halftones are reproduced. If <b>Line Art</b> is indicated, halftones are reproduced with high precision. If <b>Detail</b> is indicated, halftones are reproduced with detail. If <b>Smooth</b> is indicated, halftones are reproduced with smoothness.
	Edge Enhancement (Image/Text/ Graphics Printing)	Shows the setting for whether or not edges are emphasized in images, text and graphics.
	Edge Strength	Shows the setting for the amount that edges are emphasized.
	Economy Print Mode	Shows the setting for whether or not Economy Print Mode is enabled. When Economy Print Mode is enabled, the amount of toner used is reduced when printing many drawings.
PCL Settings	Contrast	Indicates the contrast of the image.
	Image/Text/Graphics Printing (Source)	Identifies the color space for RGB data.
	Image/Text/Graphics Printing (Intent)	Indicates the color intent to be used on conversion RGB to CMYK by printer.
	Image/Text/Graphics Printing (Gray Treatment)	Indicates the method to reproduce RGB black and gray.

Item		Description
PS Settings	Image/Text/Graphics Printing (RGB Source)	Identifies the color space for RGB data.
	Image/Text/Graphics Printing (RGB Intent)	Indicates the color intent to be used on conversion RGB to CMYK by printer.
	Image/Text/Graphics Printing (RGB Gray Treatment)	Indicates the method to reproduce RGB black and gray.
	Image/Text/Graphics Printing (Destination Profile)	Indicates the ICC destination profile to be used for printed output.
	Simulation (Profile)	Indicates the specific ICC simulation profile to be used for printed output.
	Simulation (Intent)	Indicates the simulation intent to be used for simulation printing.
	Simulation (CMYK Gray Treatment)	Indicates the method to reproduce CMYK black and gray for simulation printing.
Calibration Settings	Tone Calibration	If <b>On</b> is indicated, image adjustments are applied. If <b>Off</b> is indicated, image adjustments are not applied.
	Cyan/Magenta/ Yellow/ Black Density (Highlight)	Indicates the density of the highlight color.
	Cyan/Magenta/ Yellow/ Black Density (Middle)	Indicates the density of the middle color.
	Cyan/Magenta/ Yellow/ Black Density (Shadow)	Indicates the density of the shadow color.

## Camera Direct Settings

The **Print - Default Settings - Camera Direct Settings** window provides the following information.

Item	Description
Camera Direct Print	If <b>Enable</b> is indicated, camera direct printing is enabled. If <b>Disable</b> is indicated, camera direct printing is disabled.
Image Quality	Indicates the image quality for camera direct photo printing.
Tray1 Paper Size	Indicates the setting for the size of a paper loaded into Tray1.
Tray1 Media Type	Indicates the setting for the type of a media loaded into Tray 1.
Tray2 Paper Size	Indicates the setting for the size of a paper loaded into Tray2.
N-up Layout	Indicates the number of images printed on a single sheet of media. If <b>1-up</b> is indicated, only one image will be printed on a single sheet of media.

## Font/Form

### PCL Font

The **Print - Font/Form - PCL Font** page allows you to check the list of PCL fonts that the printer manages.

Item	Description
Number	Displays the control number of the font.
Font Name	Displays the name of the fonts.
Source	Displays the storage source of the font.

### PS Font

The **Print - Font/Form - PS Font** page allows you to check the list of Post-Script fonts that the printer manages.

Item	Description
Number	Displays the control number of the font.
Font Name	Displays the name of the fonts.
Source	Displays the storage source of the font.

## Form Overlay

The **Print - Font/Form - Form Overlay** page allows you to check the list of form overlays that the printer manages.

Item	Description
Number	Displays the control number of the overlay.
File Name	Displays the name of the overlays.
Source	Displays the storage source of the form overlay.

## Color Profile

The **Print - Font/Form - Color Profile** page allows you to check the list of color profiles that the printer manages.

Item	Description
Number	Displays the control number of the color profile.
File Name	Displays the file name of the color profile.
Profile Name	Displays the name of the color profile.
Class	Displays the type of color profile.
Color Space	Displays the color space for the color profile.
Source	Displays the storage source of the color profile.

## Report Types

The **Print - Report Types** window provides the following information.

Item	Description
Configuration Page	Prints the printer configuration page.
Utility Map	Prints the printer utility map page.
PS/PCL Menu Map Page	Prints the printer PS/PCL menu map page.
PCL Font Page	Prints the PCL font lists.
PS Font Page	Prints the PostScript font lists.
Directory Listing Page	Prints the directory list.  <i>This menu item appears only if an optional hard disk drive is installed.</i>
Print button	Sends the page to the printer.
Clear button	Cancels the selected settings.

## Direct Print

The **Print - Direct Print** page allows you to print a file directly from the printer without starting up the application.



*This page appears only if an optional hard disk drive is installed*



*This page appears when both **Public Access** (in the **Network - Authentication - User Authentication** page) and **Print** (in the **System - Authentication - Default Permission Settings**) are set to **Allow**.*



*The following file formats can be printed using direct printing: PDF, TIFF, and JPEG.*

Item	Description
File Name	Specify the location of the file to be printed. Click <b>Browse</b> , and then select the file.
Browse button	Displays a dialog box for browsing to the file to be printed.
Send button	Sends the specified file to the printer.

## Scan Page

This page allows you to view the currently specified dial settings.

### Favorite

The **Scan - Favorite** window provides the following information.

Item	Description
No.	Displays the number in the Favorite list.
Name	Displays the destination name of the selected address number.
Address	Displays the address (e-mail address, FTP address or SMB address) of the address number.

### Address Setting

The **Scan - Address Setting** window provides the following information.

Item	Description
Address List	Click to jump to the beginning of the address list within the same window.
No.	Displays the address number.
Name	Displays the destination name of the address number.
Address	Displays the address (e-mail address, FTP address or SMB address) of the address number.

### Group Setting

The **Scan - Group Setting** window provides the following information.

Item	Description
No.	Displays the group number. Click the number to display the list of destinations registered with the group number.
Name	Displays the name of the group.
Address	Shows whether the registered group contains e-mail destinations.

# Configuring the Printer

In order to make any configuration changes through Web-based EpsonNet Config, you must first enter Administrator Mode. See “Administrator Mode” on page 171 for instructions on logging into Administrator Mode.

## System Page

This page allows you to configure several user- and printer-specific items.

## Device Information

### Summary

The **System - Device Information - Summary** window provides the following information.

Item	Description
Copier RAM	Displays the amount of copier memory installed in the machine.
Printer RAM	Displays the amount of printer memory installed in the machine.
HDD	If an optional hard disk drive is installed in the printer, displays the size of the hard disk drive. If no optional hard disk drive is installed in the printer, displays "Not Installed".
Duplex	Identifies whether the duplex is "Installed" or "Not Installed".
Paper Source	Identifies the paper feed units installed on the printer.
Output Tray	Identifies the output trays installed on the printer.
Network	Lists the installed printer interface (Ethernet 10Base-T/100Base-TX/1000Base-T).

### Paper Source

The **System - Device Information - Paper Source** window provides the following information.

Item	Description
Paper Source	Identifies the paper feed units Tray 1/2/3 installed on the printer.
Paper Size	Indicates the size of paper loaded in a specific tray.
Paper Type	Indicates the type of paper loaded in a specific tray.
Paper	Indicates the paper status ("Ready" or "Empty") for each tray.
Detail button	Displays detailed information about the paper trays.

### Paper Source (Detail)

The **System - Device Information - Paper Source - Detail** window provides the following information.

Item	Description
Paper Source	Displays the names of the paper trays.
Paper Size	Displays the paper sizes.
Paper Type	Displays the paper types.
Capacity	Displays the maximum capacity of each paper tray.
Paper	Displays the amount of paper remaining.
Back button	Returns to the previous screen.

### Output Tray

The **System - Device Information - Output Tray** window provides the following information.

Item	Description
Tray	Displays the name of the output tray.
Paper	Displays the status (Ready, Full) of the output tray.

### Storage

The **System - Device Information - Storage** window provides the following information.

Item	Description
Total	Displays the total amount of space on the hard disk.  If no optional storages are installed, “-” are displayed.
Used	Displays the amount of space on the hard disk that is used.  If no optional storages are installed, “-” are displayed.
Remaining	Displays the amount of space remaining on the hard disk.  If no optional storages are installed, “-” are displayed.

## Interface Information

The **System - Device Information - Interface Information** window provides the following information.

Item		Description
Protocol Information	TCP/IP	If Enable is displayed, TCP/IP is enabled. If Disable is selected, TCP/IP is disabled.
	IPv6	If Enable is displayed, IPv6 is enabled. If Disable is selected, IPv6 is disabled.
	Bonjour	If Enable is displayed, Bonjour is enabled. If Disable is selected, Bonjour is disabled.
	FTP TX	If Enable is displayed, FTP transmission is enabled. If Disable is selected, FTP transmission is disabled.
	FTP Server	If Enable is displayed, FTP server function is enabled. If Disable is selected, FTP server function is disabled. For service use only.
	LDAP	If Enable is displayed, LDAP server is enabled. If Disable is selected, LDAP server is disabled.
	SMB	If Enable is displayed, SMB is enabled. If Disable is selected, SMB is disabled.
	Dynamic DNS	If Enable is displayed, Dynamic DNS is enabled. If Disable is selected, Dynamic DNS is disabled.
	IPP	If Enable is displayed, IPP is enabled. If Disable is selected, IPP is disabled.
	LPD	If Enable is displayed, LPD is enabled. If Disable is selected, LPD is disabled.

Item		Description
	RAW Port	If Enable is displayed, RAW Port is enabled. If Disable is selected, RAW Port is disabled.
	SLP	If Enable is displayed, SLP is enabled. If Disable is selected, SLP is disabled.
	SMTP	If Enable is displayed, SMTP is enabled. If Disable is selected, SMTP is disabled.
	SNMP	If Enable is displayed, SNMP is enabled. If Disable is selected, SNMP is disabled.
	WSD Print	If Enable is displayed, WSD Print is enabled. If Disable is selected, WSD Print is disabled.
	AppleTalk	If Enable is displayed, AppleTalk is enabled. If Disable is selected, AppleTalk is disabled.
	NetWare	If Enable is displayed, NetWare is enabled. If Disable is selected, NetWare is disabled.
	IEEE802.1x	If Enable is displayed, IEEE802.1x is enabled.  If Disable is selected, IEEE802.1x is disabled.

Item		Description
Network Information	Type	Identifies the type of network interface installed on the printer (Ethernet 10Base-T/100Base-TX/1000Base-T).
	Ethernet Speed	Indicates the transmission speed for the network and the transmission method for bidirectional transmission.
	IP Address	Identifies the IP (Internet Protocol) address of the Ethernet interface.
	IPv6 Link Local Address	Identifies the IPv6 link local address of the Ethernet interface.
	IPv6 Global Address	Identifies the IPv6 global address of the Ethernet interface.
	MAC Address	Identifies the MAC (Media Access Control) address of the Ethernet interface.
	Host Name	Identifies the host name for the printer.
	Print Server Name (NetWare)	Identifies the Print Server Name for the NetWare.
	Printer Name (AppleTalk)	Identifies the printer name on AppleTalk.
	Current Zone Name (AppleTalk)	Identifies the Current Zone Name for the AppleTalk.
	Bonjour Name	Displays the Bonjour name for the printer.
	WSD Printer Name	Displays the WSD printer name for the printer.

### Consumables

The **System - Device Information - Consumables** window provides the following information.

Item	Description
Consumables	Identifies the type of consumable that is being monitored.
Status	Indicates the remaining life of the consumables. <ul style="list-style-type: none"> <li>■ Toner Cartridge, Imaging Unit, Transfer Belt, Transfer Roller, Fuser Unit: Percentage</li> <li>■ Waste Toner Bottle: Ready, Near Full, or Full</li> </ul>

Item	Description
TYPE	Identifies the type of Toner Cartridge. <ul style="list-style-type: none"> <li>■ Starter, Standard, High</li> </ul>

## Counter

The **System - Counter** window provides the following information.

Item	Description
Total Print	Indicates the total number of all printed pages. <ul style="list-style-type: none"> <li>■ Total Faces Counter, Color Copy, Color Print, Mono Copy, Mono Print, Total Duplex Counter, Duplex Color Copy, Duplex Color Print, Duplex Mono Copy, Duplex Mono Print</li> </ul>
Normalized Total Faces Counter	The number of printed pages is displayed calculated in terms of A4-size paper. <ul style="list-style-type: none"> <li>■ Color Faces Printed, Monochrome Faces Printed, Total</li> </ul>
Scan Counter	Indicates the total number of scanned pages. <ul style="list-style-type: none"> <li>■ IR, ADFR (Single), ADFR (Duplex)</li> </ul>
Tray Counter	Indicates the total number of pages for each tray setting. <ul style="list-style-type: none"> <li>■ Tray 1, Tray 2, Tray 3 (Tray 3 displays when installed)</li> </ul>
Paper Size Counter	Indicates the total number of pages for each paper size. <ul style="list-style-type: none"> <li>■ A4, B5 (JIS), A5, Legal, Letter, Others</li> </ul>
Paper Type Counter	Indicates the total number of pages for each paper type. <ul style="list-style-type: none"> <li>■ Plain Paper, Recycled, Thick 1, Thick 2, Glossy 1, Glossy 2, Transparency, Envelope, Letterhead, Postcard, Label</li> </ul>
Application Counter	Indicates the total number of pages for each application. <ul style="list-style-type: none"> <li>■ Copy Print, Report output print, PC print, Scan To E-mail, Scan To FTP, Scan To SMB, Scan to USB, TWAIN, PictBridge, Memory Direct</li> </ul>

## Online Assistance

The **System - Online Assistance** window allows you to configure the following items.

Item	Description
Contact Name	Sets the name of the person or organization responsible for providing assistance with the printer. Range: Up to 63 characters Default: Epson Customer Support
Contact Information	Sets the web site for printer assistance. Range: Up to 127 characters Default: <a href="http://www.epson.com">http://www.epson.com</a>
Product Help URL	Sets the help web site address for printer assistance. Range: Up to 127 characters Default: <a href="http://www.epson.com">http://www.epson.com</a>
Corporate URL	Sets the Epson corporate web site address. Range: Up to 127 characters Default: <a href="http://www.epson.com">http://www.epson.com</a>
Supplies and Accessories	Sets the web address where you can purchase printer supplies and accessories. Range: Up to 127 characters Default: <a href="http://www.epson.com">http://www.epson.com</a>
Contact Phone Number	Specifies the telephone number of the printer administrator. Range: Up to 31 characters Default: [Blank]
Contact Address	Specifies the address of the printer administrator. Range: Up to 320 characters Default: [Blank]
Contact Utility Link	Specifies the link to the Printer Management Utilities. Range: Up to 127 characters Default: <a href="http://www.epson.com">http://www.epson.com</a>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Import/Export



*This page appears only if an optional hard disk drive is installed.*

## Job Log



*This page appears when **Job Log** (in the **System - Machine Settings** page) is set to **Enable**.*

The **System - Import/Export - Job Log** window allows you to configure the following items.

Item	Description
Export	Specify the number of job logs to be retrieved. The specified number of job logs is retrieved from the most recent job logs. If the specified number of job logs is larger than the number of job logs available, all job logs are retrieved.  Choices: Last 10, Last 50, Last 100, Last 250, Last 500, All Default: Last 10
Export button	Exports the job log information on the device to the computer.
Clear button	Clears the job log from the device.

## User Information



*This page appears when **User Authentication** (in the **Network - Authentication - User Authentication** page) is set to **On**.*

The **System - Import/Export - User Information** window allows you to configure the following items.

Item	Description
Import Text Box	Type in the name of the file containing the registered user authentication information to be imported.
Browse button	Allows the registered user authentication information transferred to the device to be searched.
Import button	Transfers the registered user authentication information to the device.
Export button	Exports the registered user authentication information to the computer.

## Authentication



*This page appears if an optional hard disk drive is installed.*

### Default Permission Settings



*This page appears only if **Public Access** (in the **Network - Authentication - User Authentication** page) is set to **Allow**.*

The **System - Authentication - Default Permission Settings** window allows you to configure the following items.

Item		Description
Function Permission	Print	Select whether or not printing is permitted when public authentication is used.  Choices: Allow, Restrict Default: Allow
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

## User Registration



*This page appears only if User Authentication (in the **Network - Authentication - User Authentication** page) is set to **On**.*

The **System - Authentication - User Registration** window allows you to configure the following items.

Item	Description
Search for Number	Select the user registration number (No.) to be searched for. Range: 1 - 1000 Default: 1 - 50
No.	Shows the user registration number (No.) to be registered.
User Name	Shows the registered user name.
Edit icon	The registered user information can be edited.
Delete icon	The registered user can be deleted.
New Registration button	Registers a new user.

## User Registration (New Registration)

The **System - Authentication - User Registration - New Registration** window allows you to configure the following items.

Item		Description
User Registration	No.	Shows the new user registration number (No.).
	User Name	Specify the name of the new user. Range: Up to 64 characters Default: [Blank]  <i>A user name that already exists cannot be specified.</i>  <i>“Public” cannot be specified as the user name.</i>
	User Password	Specify the password of the new user. Range: Up to 64 characters Default: [Blank]  <i>The User Password box can be left blank.</i>
	Retype User Password	Type in the new password again for confirmation. Range: Up to 64 characters Default: [Blank]
Function Permission	Print	Select whether or not the new user is permitted to print. Choices: Allow, Restrict Default: Allow
Output Permission	Color	Select whether or not the new user is permitted to print in color. Choices: Allow, Economy Print Mode Only, Restrict Default: Allow
	Black	Select whether or not the new user is permitted to print in black and white. Choices: Allow, Restrict Default: Allow
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

Item	Description
Cancel button	Click to cancel the entered data and return to the <b>System - Authentication - User Registration</b> page.

## Date/Time

### Manual Settings

The **System - Date/Time - Manual Settings** window allows you to configure the following items:

Item	Description
Year	Specifies the year for the printer's internal clock. Range: 2007-2032 Default: 2009 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Month	Specifies the month for the printer's internal clock. Range: 1-12 Default: 1 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Day	Specifies the day for the printer's internal clock. Range: 1-31 Default: 1 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Hour	Specifies the hour for the printer's internal clock. Range: 0-23 Default: 0 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME

Item	Description
Minute	Specifies the minute for the printer's internal clock.  Range: 0-59 Default: 0 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Time Zone	Specifies the time zone for sending e-mail notifications.  Range: -12:00 - +12:00 Default: 0:00 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - DATE&TIME
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Time Adjustment Settings

The **System - Date/Time - Time Adjustment Settings** window allows you to configure the following items:

Item	Description
Time Adjustment	Select whether or not the time is automatically adjusted with NTP.  Choices: Enable, Disable Default: Disable
NTP Server Address	Specifies the NTP server address. IPv4 address, IPv6 address or FQDN (Fully Qualified Domain Name) can be specified.  Range: Up to 63 characters Default: 0.0.0.0
Port Number	Specifies the NTP server port number.  Range: 1 - 65535 Default: 123
Time Zone	Specifies the time difference from GMT.  Range: -12:00 - +12:00 Default: 0:00
Adjustment Time	Shows the last modification date and time.
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Admin Password

The **System - Admin Password** window allows you to configure the following items:

Item	Description
Current Password	Type in the current password. Range: Up to 16 characters Default: [Blank]
New Password	Sets a new password to enter Administrator Mode. Range: Up to 16 characters Default: [Blank]  <i>Passwords can be set to any string of numbers and letters (uppercase and lowercase) up to 16 characters in length.</i>
Retype New Password	Verifies the new password typed in the <b>New Password</b> text box. Range: Up to 16 characters Default: [Blank]  <i>If the password typed in three text boxes doesn't match, the following message displays when you choose the <b>Apply</b> button: "Password was changed unsuccessfully. Please retry." Click <b>OK</b> button, and then retype the passwords in both text boxes.</i>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.



*If you forget the new password you've assigned, contact Technical Support.*

## Save Settings

From the **System - Save Settings** window, the machine settings can be saved as a file on the computer being used. In addition, the saved settings file can be read by the machine.



*The following settings are not saved in the file:*  
- ADDRESS books

Item		Description
Save Settings	Device Setting	Click <b>Save</b> button to save the machine settings as a file.
Restore Setting	File Name	Specify the name of the file where the machine settings are to be saved. Click <b>Browse</b> button to display the dialog box for browsing to the folder where the file containing the machine settings was saved.
	Send File to the Device	Click <b>Restore</b> button to send the settings file to the machine and overwrites the machine settings.

## Machine Settings

The **System - Machine Settings** window allows you to configure the following items:

Item	Description
Administrator Name	Specifies the name of the administrator for the printer.  Range: Up to 127 characters Default: [Blank]
Device Name	Specifies the name of the printer.  Range: Up to 127 characters Default: [Blank]
Device Location	Specifies the setup location for the printer.  Range: Up to 127 characters Default: [Blank]
Device Information	Specifies the information for the printer.  Range: Up to 127 characters Default: [Blank]
Do Startup Page	Selects whether or not a startup page is printed when the printer is turned on.  Choices: On, Off Default: Off Configuration Menu Equivalent: PS/PCL PRINT - SYS DEFAULT MENU - STARTUP OPTIONS - DO STARTUP PAGE
Auto Continue	Selects whether or not printing continues if the size or type of paper in the selected paper tray is different from the size or type of paper for the print job.  Choices: On, Off Default: Off Configuration Menu Equivalent: UTILITY - MACHINE SETTING - AUTO CONTINUE

Item	Description
Hold Job Timeout	<p>Specifies the length of time until print jobs saved on the hard disk are deleted. If Disable is selected, print jobs are not deleted at a specific time.</p> <p>Choices: Disabled, One Hour, Four Hours, One Day, One Week  Default: Disabled  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - HOLD JOB TIMEOUT</p> <p> <i>This menu item appears only if an optional hard disk drive is installed.</i></p>
Energy Saver Time	<p>Specifies the length of time until the machine enters Energy Saver mode.</p> <p>Choices: 3-120 Minutes  Default: 30 Minutes  Configuration Menu Equivalent:  UTILITY - MACHINE SETTING -  ENERGY SAVE MODE</p>
Grayscale Page	<p>Specify the operation to be performed for black-and-white pages in a job specified for color printing.</p> <p>If <b>Auto</b> is selected, printing is automatically performed according to the first page of the job.</p> <p>If <b>Grayscale Print</b> is selected, black-and-white printing is automatically performed depending on each page.</p> <p>If <b>Color Print</b> is selected, color printing is performed, even for a black-and-white page.</p> <p>Choices: Auto, Grayscale Print, Color Print  Default: Auto  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - GRAYSCALE PAGE</p>

Item	Description
Job Log	Select whether or not the Job Log function is used. Choices: Enable, Disable Default: Disable  <i>This menu item appears only if an optional hard disk drive is installed.</i>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## ROM Version

The **System - ROM Version** window provides the following information.

Item	Description
Engine ROM Version	Displays the ROM version of the printer engine.
Controller ROM Version	Displays the ROM version of the controller.
PS/PCL Controller ROM Version	Displays the ROM version of the PS/PCL printer controller.
Boot ROM Version	Displays the ROM version of the Boot ROM.
PS/PCL Boot ROM Version	Displays the ROM version of the PS/PCL printer's Boot ROM.

## Maintenance

### Clear Settings

The **System - Maintenance - Clear Settings** page allows you to reset the printer settings to its factory defaults.

Item	Description
Printer Settings	Resets the printer settings to their defaults.
Network Settings	Resets the network settings to their defaults.
All Settings	Resets all settings to their defaults.
Clear button	When clicked, the message "Is it OK to restore Factory Defaults?" appears. Click <b>OK</b> to automatically restart the printer and return the settings to their default values.

### Reset Printer

The **System - Maintenance - Reset Printer** page allows you to reset the printer controller.

Item	Description
Reset button	When clicked, the message "Is it OK to reset the Printer?" appears. Click <b>OK</b> to automatically restart the printer.

## Status Notification Settings

The **System - Status Notification Settings** window allows you to configure the following items:

Item		Description
IP Address	Notification Address	Specify the IP address of the SNMP trap receiver. An IPv4 or IPv6 address or a host name can be specified.  Range: Up to 63 characters Default: 0.0.0.0
	Port Number(1-65535)	Specify the port number of the SNMP trap.  Range: 1 - 65535 Default: 162
	Community Name	Specify the community name for the SNMP trap.  Range: Up to 15 characters Default: public
IPX Address	Notification Address	Specify the IPX address of the SNMP trap receiver.  Range: 8 characters Default: 00000000
	Node Address	Specify the node address of the SNMP trap receiver.  Range: 12 characters Default: 000000000000
	Community Name	Specify the community name for the SNMP trap.  Range: Up to 15 characters Default: public

Item		Description
Email Address	Email Notice	Specifies whether or not a notification is sent by e-mail when a warning occurs in the printer.  Choices: Enable, Disable Default: Enable
	Notification Address	Specifies the e-mail address where the notification is sent.  Range: Up to 320 characters Default: [Blank]
Alert	Paper Empty	Specifies whether or not a notification is sent when the paper tray runs out of paper.  Choices: Enable, Disable Default: Enable
	Paper Jam	Specifies whether or not a notification is sent when a paper misfeed occurs.  Choices: Enable, Disable Default: Enable
	Maintenance	Specifies whether or not a notification is sent when the time for a periodic maintenance has been reached.  Choices: Enable, Disable Default: Enable
	Toner Out	Specifies whether or not a notification is sent when the toner is empty.  Choices: Enable, Disable Default: Enable
	Output Tray Full	Specifies whether or not a notification is sent when the output tray has become full.  Choices: Enable, Disable Default: Enable
	Fuser Unit End	Specifies whether or not a notification is sent when the fuser unit has reached the end of its service life.  Choices: Enable, Disable Default: Enable

Item	Description
	<p>Operator Call</p> <p>Specifies whether or not a notification is sent when the operator must be called.</p> <p>Choices: Enable, Disable Default: Enable</p>
	<p>Service Call</p> <p>Specifies whether or not a notification is sent to the service representative when a condition occurs that requires servicing.</p> <p>Choices: Enable, Disable Default: Enable</p>
	<p>Job Complete</p> <p>Specifies whether or not a notification is sent when a print job is completed correctly.</p> <p>Choices: Enable, Disable Default: Enable</p>
	<p>Job Error</p> <p>Specifies whether or not a notification is sent when a job could not be printed because an error occurred.</p> <p>Choices: Enable, Disable Default: Enable</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Job Page

This page allows you to view the status of current print jobs.

### Active Job List

The **Job - Active Job List** window provides the following information for up to 45 print jobs.

Item	Description
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
Job Status	Displays the current status of the print job (Parsing, Printing, Cancel, Pending or Abort).
Create Time	Displays the time that the job was queued.
Delete button	Deletes the print job(s) that are applies to the checked boxes.

### Done Job List

The **Job - Done Job List** window provides the following information for up to 50 print jobs.

Item	Description
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
End Time	Displays the time that the printing is finished.
Result	Displays the result of the print job (OK, Error, or Canceled).
Detail button	Displays a screen containing details.

## Done Job List (Detail)

The **Job - Done Job List - Detail** window provides the following information for the selected job.

Item	Description
Job Number	Displays the print job identification number. Each print job that the printer receives is assigned a unique identification number.
User Name	If known, displays the owner of the print job.
File Name	Displays the name of the print file.
Delivery Type	Displays the delivery method for the job (Print, Print and Hold, Proof then Print, IPP Print, Secured Job, Time Print or Report Print).
Create Time	Displays the time that the job was queued.
End Time	Displays the time that the printing is finished.
Result	Displays the result of the print job (OK, Error, or Canceled).
Back button	Returns to the previous screen.

## Print Page

This page allows more detailed printer settings to be specified.

### Local Interface

The **Print - Local Interface** window allows you to configure the following items:

Item	Description
I/O Timeout	Specifies the reception timeout (in seconds). Range: 5-300 Default: 15
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Default Settings

### General Settings

The **Print - Default Settings - General Settings** window allows you to configure the following items:

Item	Description
PDL	Selects default language to be selected.  Choices: Auto, PCL, PS Default: Auto Configuration Menu Equivalent: PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - DEF. EMULATION
Paper Source	The paper tray that is normally used can be specified.  Choices: Tray1, Tray2, Tray3 Default: Tray2   <b>Tray3</b> appears only if an optional lower feeder unit is installed.
Duplex	If <b>Long-Edge Binding</b> is selected, the pages will be printed on both sides of the paper for long-edge binding. If <b>Short-Edge Binding</b> is selected, the pages will be printed on both sides of the paper for short-edge binding.  Choices: Off, Short-Edge Binding, Long-Edge Binding Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - DUPLEX
Output Tray	Displays the name of the output tray.
Copies	Specifies the default setting for number of copies to be printed.  Range: 1-9999 Default: 1 Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - COPIES

Item	Description
Paper Size	<p>Specifies the default setting for the size of paper.</p> <p>Choices: Letter, Legal, Executive, A4, A5, A6, B5 (JIS), B6, Government Letter, Statement, Folio, SP Folio, UK Quarto, Foolscap, Government Legal, 16K, Photo 4x6, Kai 16, Kai 32, Envelope C6, Envelope DL, Envelope Monarch, Envelope Chou #3, Envelope Chou #4, B5 (ISO), Envelope Com10, Japanese Postcard, Japanese Postcard-D, Custom Size</p> <p>Default: A4</p> <p>Configuration Menu Equivalent:</p> <p>PS/PCL PRINT - SYS DEFAULT MENU - PAPER - DEFAULT PAPER - PAPER SIZE</p> <p> <i>Depending on the setting selected for <b>Scan - User Setting - Preset Zoom</b>, Photo 4x6 may change to Photo 10x15.</i></p>
Width	<p>Specifies the paper width when <b>Paper Size</b> is set to <b>Custom Size</b>.</p> <p>Range: 3.63 - 8.50 (inch) / 92 - 216 (mm)</p> <p>Default: 8.27 inch/210 mm</p> <p>Configuration Menu Equivalent:</p> <p>PS/PCL PRINT - SYS DEFAULT MENU - PAPER - DEFAULT PAPER - CUSTOM SIZE - WIDTH</p>
Length	<p>Specifies the paper length when <b>Paper Size</b> is set to <b>Custom Size</b>.</p> <p>Range: 5.83 - 14.00 (inch) / 148 - 356 (mm)</p> <p>Default: 11.69 inch/297 mm</p> <p>Configuration Menu Equivalent:</p> <p>PS/PCL PRINT - SYS DEFAULT MENU - PAPER - DEFAULT PAPER - CUSTOM SIZE - LENGTH</p>

Item	Description
Paper Type	<p>Specifies the default setting for the type of paper.</p> <p>Choices: Plain Paper, Recycled, Thick 1, Thick 2, Label, Transparency, Envelope, Postcard, Letterhead, Glossy 1, Glossy 2</p> <p>Default: Plain Paper</p> <p>Configuration Menu Equivalent:</p> <p>PS/PCL PRINT - SYS DEFAULT MENU - PAPER - DEFAULT PAPER - PAPER TYPE</p>
Collate	<p>If <b>On</b> is selected, all pages in a copy of the document can be printed before printing the next copy. If <b>Off</b> is selected, all copies of the document are not printed separately.</p> <p>Choices: On, Off</p> <p>Default: Off</p> <p>Configuration Menu Equivalent:</p> <p>PS/PCL PRINT - PAPER MENU - COLLATE</p> <p> <i>This menu item appears only if an optional hard disk drive is installed.</i></p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Paper Source Settings

The **Print - Default Settings - Paper Source Settings** window allows you to configure the following items:

Item		Description
Tray1	Paper Size	<p>Specifies the setting for the size of the paper loaded into Tray 1.</p> <p>Choices: Letter, Legal, Executive, A4, A5, A6, B5 (JIS), B6, Government Letter, Statement, Folio, SP Folio, UK Quarto, Foolscap, Government Legal, 16K, Photo 4x6, Kai 16, Kai 32, Envelope C6, Envelope DL, Envelope Monarch, Envelope Chou #3, Envelope Chou #4, B5 (ISO), Envelope Com10, Japanese Postcard, Japanese Postcard-D, Custom Size</p> <p>Default: Letter (U.S. model) A4 (Other model)</p> <p>Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY1 PAPER</p> <p> <i>Depending on the setting selected for <b>Scan - User Setting - Preset Zoom</b>, Photo 4x6 may change to Photo 10x15.</i></p>
	Width	<p>Specifies the paper width when <b>Paper Size</b> is set to <b>Custom Size</b>.</p> <p>Range: 3.63 - 8.50 (inch) / 92 - 216 (mm)</p> <p>Default: 8.27 inch/210 mm</p> <p>Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY1 PAPER</p>

Item	Description	
	Length	<p>Specifies the paper length when <b>Paper Size</b> is set to <b>Custom Size</b>.</p> <p>Range: 5.83 - 14.00 (inch) / 148 - 356 (mm)</p> <p>Default: 11.69 inch/297 mm</p> <p>Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY1 PAPER</p>
	Paper Type	<p>Specifies the setting for the type of the paper loaded into Tray 1.</p> <p>Choices: Plain Paper, Thick 1, Thick 2, Label, Transparency, Envelope, Postcard, Letterhead, Glossy 1, Glossy 2</p> <p>Default: Plain Paper</p> <p>Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY1 PAPER</p>
Tray2	Paper Size	<p>Specifies the setting for the size of the paper loaded into Tray 2.</p> <p>Choices: Letter, Executive, A4, A5, A6, B5 (JIS), B6, Government Letter, Statement, UK Quarto, 16K, Photo 4x6, Kai 16, Kai 32, Custom Size</p> <p>Default: Letter (U.S. model) A4 (other model)</p> <p>Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY2 PAPER</p> <p> <i>Depending on the setting selected for <b>Scan - User Setting - Preset Zoom</b>, Photo 4x6 may change to Photo 10x15.</i></p>

Item	Description	
	Width	Specifies the paper width when <b>Paper Size</b> is set to <b>Custom Size</b> .  Range: 3.63 - 8.50 (inch) / 92 - 216 (mm) Default: 8.27 inch/210 mm Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY2 PAPER
	Length	Specifies the paper length when <b>Paper Size</b> is set to <b>Custom Size</b> .  Range: 5.83 - 11.69 (inch) / 148 - 297 (mm) Default: 11.69 inch/297 mm Configuration Menu Equivalent: UTILITY - PAPER SETUP - TRAY2 PAPER
	Paper Type	Displays the setting for the type of the paper loaded into Tray 2.
Tray3  This item appears only if an optional lower feeder unit is installed.	Paper Size	Displays the setting for the size of the paper loaded into Tray 3.
	Paper Type	Displays the setting for the type of the paper loaded into Tray 3.

Item			Description
Any Tray Setting	Tray1	Paper Size	Select whether or not the Any Paper Size setting is selected for Tray 1.  Choices: Off, Any Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - ANY TRAY SETTING - TRAY1 PAPER - TRAY1 ANY SIZE
		Paper Type	Select whether or not the Any Media Type setting is selected for Tray 1.  Choices: Off, Any Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - ANY TRAY SETTING - TRAY1 PAPER - TRAY1 ANY TYPE
	Tray2	Paper Size	Select whether or not the Any Paper Size setting is selected for Tray 2.  Choices: Off, Any Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - ANY TRAY SETTING - TRAY2 PAPER - TRAY2 ANY SIZE
		Paper Type	Select whether or not the Any Media Type setting is selected for Tray 2.  Choices: Off, Any Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - ANY TRAY SETTING - TRAY2 PAPER - TRAY2 ANY TYPE

Item			Description
	Tray 3 This item appears only if an optional lower feeder unit is installed.	Paper Type	Select whether or not the Any Media Type setting is selected for Tray 3.  Choices: Off, Any Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - ANY TRAY SETTING - TRAY3 PAPER - TRAY3 ANY TYPE
	Tray Chaining	Tray Chaining	If <b>Enable</b> is selected and the specified paper tray runs out of paper during printing, a paper tray loaded with paper of the same size is automatically selected so printing can continue.  If <b>Disable</b> is selected and the specified paper tray runs out of paper, printing stops.  Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - TRAY CHAINING
Apply button			Applies the configuration settings for this window.
Clear button			Resets all configuration settings to previous values.

### Tray Mapping Settings

The **Print - Default Settings - Tray Mapping Settings** window provides the following information.

Item	Description
Tray Mapping Mode	Select whether or not the Tray Mapping function is used.  Choices: On, Off Default: Off Configuration Menu Equivalent: PS/PCL PRINT - PAPER MENU - TRAY MAPPING - TRAY MAPPING MD.

Item	Description
Logical Tray 0-9	<p>Select the tray that is used for printing when a print job is received from another manufacturer's printer driver.</p> <p>The default setting for <b>Logical Tray 1</b> is <b>Physical Tray 1</b>. The default setting for all other trays is <b>Physical Tray 2</b>.</p> <p>Choices: Physical Tray 1, Physical Tray 2, Physical Tray 3</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - PAPER MENU - TRAY MAPPING - LOGICAL TRAY0-9</p> <p> <b>Physical Tray 3</b> appears only if an optional lower feeder unit is installed.</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

### PCL Settings

The **Print - Default Settings - PCL Settings** window allows you to configure the following items:

Item	Description
Font Number	<p>Sets the default font in the PCL language.</p> <p>Range: 0 - 102  Default: 0</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - PCL - FONT SOURCE - FONT NUMBER</p>
Symbol Set	<p>Selects the symbol set used with the PCL language.</p> <p>Default: PC-8</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - PCL - FONT SOURCE - SYMBOL SET</p>

Item	Description
Lines Per Page	<p>Selects how many lines are in a page in PCL language.</p> <p>Range: 5 - 128  Default: 60  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - EMULATION - PCL - LINES PER PAGE</p>
Font Point Size	<p>Sets the font size in the PCL language.</p> <p>Range: 4.00 - 999.75  Default: 12.00  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - EMULATION - PCL - FONT SOURCE  - POINT SIZE</p>
Font Pitch Size	<p>Sets the font pitch in the PCL language.</p> <p>Range: 0.44 - 99.99  Default: 10.00  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - EMULATION - PCL - FONT SOURCE  - PITCH SIZE</p>
CR/LF Mapping	<p>Selects CR/LF code definition in PCL language.</p> <p>Choices: CR=CR LF=LF, CR=CRLF LF=LF,  CR=CR LF=LFCR, CR=CRLF LF=LFCR  Default: CR=CR LF=LF  Configuration Menu Equivalent:  PS/PCL PRINT - SYS DEFAULT MENU  - EMULATION - PCL -  CR/LF MAPPING</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## PS Settings

The **Print - Default Settings - PS Settings** window allows you to configure the following items:

Item	Description
Wait Timeout	Sets Postscript timeout. "0" means that no time-out control is effective.  Range: 0 - 300 (in seconds) Default: 0 Configuration Menu Equivalent: PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - POSTSCRIPT - WAIT TIMEOUT
PS Protocol	Specifies the PS protocol.  Choices: Auto, Normal, Binary Default: Auto Configuration Menu Equivalent: PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - POSTSCRIPT - PS PROTOCOL
Print to PS Error	Specifies whether or not error printing is performed.  Choices: On, Off Default: Off Configuration Menu Equivalent: PS/PCL PRINT - SYS DEFAULT MENU - EMULATION - POSTSCRIPT - PS ERROR PAGE
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Print Quality Settings

The **Print - Default Settings - Print Quality Settings** window allows you to configure the following items:

Item		Description
Print Quality Settings	Color Mode	If <b>Color</b> is selected, the pages are printed in full color. If <b>Monochrome</b> is selected, the pages are printed in black and white.  Choices: Color, Monochrome Default: Color Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - COLOR MODE
	Color Separation	If <b>On</b> is selected, color separation is performed. If <b>Off</b> is selected, color separation is not performed.  Choices: On, Off Default: Off Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - COLOR SEPARATION
	Brightness	Specifies the brightness of the printed image.  Choices: +15%, +10%, +5%, 0, -5%, -10%, -15% Default: 0 Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - BRIGHTNESS

Item	Description
Halftone (Image/Text/Graphics Printing)	<p>Specifies how halftones are reproduced. If <b>Line Art</b> is selected, halftones are reproduced with high precision. If <b>Detail</b> is selected, halftones are reproduced with detail. If <b>Smooth</b> is selected, halftones are reproduced with smoothness.</p> <p>Choices: Line Art, Detail, Smooth  Default: Detail (Image/Graphics)  Line Art (Text)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - HALFTONE - IMAGE/  TEXT/GRFX. PRINTING</p>
Edge Enhancement (Image/Text/Graphics Printing)	<p>Select whether image/text/graphics edges are emphasized. If <b>On</b> is selected, the edges are emphasized. If <b>Off</b> is selected, the edges are not emphasized.</p> <p>Choices: On, Off  Default: Off (Image)  On (Text / Graphics)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - EDGE ENHANCEMENT -  IMAGE/TEXT/GRFX. PRINTING</p>

Item	Description
	<p data-bbox="325 121 482 148">Edge Strength</p> <p data-bbox="530 121 994 177">Select the desired amount that edges are emphasized.</p> <p data-bbox="530 180 994 236">If <b>Off</b> is selected, the edges are not emphasized.</p> <p data-bbox="530 239 960 295">If <b>Low</b> is selected, the edges are slightly emphasized.</p> <p data-bbox="530 298 994 354">If <b>Middle</b> is selected, the edges are emphasized by an average amount.</p> <p data-bbox="530 357 955 413">If <b>High</b> is selected, the edges are highly emphasized.</p> <p data-bbox="530 432 866 459">Choices: Off, Low, Middle, High</p> <p data-bbox="530 462 701 489">Default: Middle</p> <p data-bbox="530 493 866 520">Configuration Menu Equivalent:</p> <p data-bbox="575 523 930 550">PS/PCL PRINT - QUALITY</p> <p data-bbox="575 553 897 580">MENU - EDGE STRENGTH</p>
	<p data-bbox="325 595 488 651">Economy Print Mode</p> <p data-bbox="530 595 988 679">Select whether to print graphics with a reduced density by reducing the amount of toner that is used.</p> <p data-bbox="530 683 1000 767">When Economy Print Mode is enabled, the amount of toner used is reduced when printing many drawings.</p> <p data-bbox="530 786 708 813">Choices: On, Off</p> <p data-bbox="530 817 665 844">Default: Off</p> <p data-bbox="530 847 866 874">Configuration Menu Equivalent:</p> <p data-bbox="575 877 930 904">PS/PCL PRINT - QUALITY</p> <p data-bbox="575 908 897 935">MENU - ECONOMY PRINT</p>

Item		Description
PCL Settings	Contrast	<p>Specifies the contrast of the image.</p> <p>Choices: +15%, +10%, +5%, 0, -5%, -10%, -15%</p> <p>Default: 0</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PCL SETTING -  CONTRAST</p>
	Image/Text/ Graphics Printing (Source)	<p>Specifies the color space for RGB data.</p> <p>Choices: Device Color, sRGB</p> <p>Default: sRGB</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PCL SETTING -  IMAGE/TEXT/GRFX. PRINTING  - RGB SOURCE</p>
	Image/Text/ Graphics Printing (Intent)	<p>Specifies the color intent to be used on conversion RGB to CMYK by printer.</p> <p>Choices: Vivid, Photographic</p> <p>Default: Photographic (Image)  Vivid (Text/Graphics)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PCL SETTING -  IMAGE/TEXT/GRFX. PRINTING  - RGB INTENT</p>
	Image/Text/ Graphics Printing (Gray Treatment)	<p>Specifies the method to reproduce RGB black and gray.</p> <p>Choices: Composite Black, Black and Gray, Black Only</p> <p>Default: Composite Black (Image)  Black and Gray (Text/Graphics)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PCL SETTING -  IMAGE/TEXT/GRFX. PRINTING  - RGB GRAY</p>

Item		Description
PS Settings	Image/Text/ Graphics Printing (RGB Source)	<p>Specifies the color space for RGB data.</p> <p>Choices: Device Color, sRGB, AppleRGB, AdobeRGB1998, ColorMatchRGB, BlueAdjustRGB, Custom Profile</p> <p>Default: sRGB</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PS SETTING - IMAGE/  TEXT/GRFX. PRINTING - RGB  SOURCE</p>
	Image/Text/ Graphics Printing (RGB Intent)	<p>Specifies the color intent to be used on conversion RGB to CMYK by printer.</p> <p>Choices: Vivid, Photographic, Relative Color, Absolute Color</p> <p>Default: Photographic (Image)  Vivid (Text/Graphics)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PS SETTING - IMAGE/  TEXT/GRFX. PRINTING - RGB  INTENT</p>
	Image/Text/ Graphics Printing (RGB Gray Treatment)	<p>Specifies the method to reproduce RGB black and gray.</p> <p>Choices: Composite Black, Black and Gray, Black Only</p> <p>Default: Composite Black (Image)  Black and Gray (Text/Graphics)</p> <p>Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - PS SETTING - IMAGE/  TEXT/GRFX. PRINTING - RGB  GRAY</p>

Item	Description
Image/Text/ Graphics Printing (Destination Profile)	<p>Specifies the ICC destination profile to be used for printed output.</p> <p>Choices: Auto, Custom Profile Default: Auto Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - PS SETTING - IMAGE/ TEXT/GRFX. PRINTING - DESTINATION PROF</p>
Simulation (Profile)	<p>Specifies the specific ICC simulation profile to be used for printed output.</p> <p>Choices: None, SWOP, Euroscale, CommercialPress, TOYO, DIC, Custom Profile Default: None Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - PS SETTING - SIMULATION - SIMULATION PROF</p>
Simulation (Intent)	<p>Specifies the simulation intent to be used for simulation printing.</p> <p>Choices: Relative Color, Absolute Color Default: Relative Color Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - PS SETTING - SIMULATION - SIM. INTENT</p>
Simulation (CMYK Gray Treatment)	<p>Specifies the method to reproduce CMYK black and gray for simulation printing.</p> <p>Choices: Composite Black, Black and Gray, Black Only Default: Composite Black Configuration Menu Equivalent: PS/PCL PRINT - QUALITY MENU - PS SETTING - SIMULATION - CMYK GRAY</p>

Item		Description
Calibration Settings	Tone Calibration	<p>If <b>On</b> is indicated, image adjustments are applied.  If <b>Off</b> is indicated, image adjustments are not applied.</p> <p>Choices: On, Off  Default: On  Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - CALIBRATION - TONE  CALIBRATION</p>
	Cyan/Magenta/ Yellow/Black Density (Highlight)	<p>Specifies the density of the highlight color.</p> <p>Choices: 3, 2, 1, 0, -1, -2, -3  Default: 0  Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - CALIBRATION - CMYK  DENSITY - CYAN/MAGENTA/  YELLOW/BLACK - HIGHLIGHT</p>
	Cyan/Magenta/ Yellow/Black Density (Middle)	<p>Specifies the density of the middle color.</p> <p>Choices: 3, 2, 1, 0, -1, -2, -3  Default: 0  Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - CALIBRATION - CMYK  DENSITY - CYAN/MAGENTA/  YELLOW/BLACK - MIDDLE</p>
	Cyan/Magenta/ Yellow/Black Density (Shadow)	<p>Specifies the density of the shadow color.</p> <p>Choices: 3, 2, 1, 0, -1, -2, -3  Default: 0  Configuration Menu Equivalent:  PS/PCL PRINT - QUALITY  MENU - CALIBRATION - CMYK  DENSITY - CYAN/MAGENTA/  YELLOW/BLACK - SHADOW</p>
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

## Camera Direct Settings

The **Print - Default Settings - Camera Direct Settings** allows you to configure the following items:

Item	Description
Camera Direct Print	<p>If <b>Enable</b> is selected, camera direct printing is enabled. If <b>Disable</b> is selected, camera direct printing is disabled.</p> <p>Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - CAMERA DIRECT</p>
Image Quality	<p>Select the image quality for camera direct photo printing.</p> <p>Choices: Normal, Fine Default: Normal Configuration Menu Equivalent: UTILITY - DIRECT PRINT - IMAGE QUALITY</p>
Tray1 Paper Size	<p>Select the paper size when using Tray 1 with camera direct printing.</p> <p>The available paper sizes differ depending on the selected media type.</p> <p>Choices: Letter, Statement, A4, A5, B5 (JIS), Photo 4x6, Japanese Postcard, Letter 2-up 4x6, A4 4-up L Size, A4 2-up 10x15 Default: Letter (U.S. model) A4 (Other model) Configuration Menu Equivalent: UTILITY - DIRECT PRINT - PAPER SIZE - TRAY1 PAPER</p> <p> Depending on the setting selected for <b>Scan - User Setting - Preset Zoom</b>, Photo 4x6 may change to Photo 10x15.</p>

Item	Description
Tray1 Media Type	<p>Select the media type when using Tray 1 with camera direct printing.</p> <p>Choices: Plain Paper, Label, Thick 1, Thick 2, Glossy 1, Glossy 2, Postcard            Default: Plain Paper            Configuration Menu Equivalent:            UTILITY - DIRECT PRINT - PAPER SIZE            - TRAY1 PAPER</p>
Tray2 Paper Size	<p>Select the paper size when using Tray 2 with camera direct printing.</p> <p>Only plain paper can be loaded into Tray 2.</p> <p>Choices: Letter, A4            Default: Letter (U.S. model)            A4 (Other model)            Configuration Menu Equivalent:            UTILITY - DIRECT PRINT - PAPER SIZE            - TRAY2 PAPER</p>
N-up Layout	<p>Select the number of images printed on a single sheet of media.</p> <p>If <b>1-up</b> is selected, only one image will be printed on a single sheet of media.</p> <p>Choices: 1-up, 2-up, 3-up, 4-up, 6-up, 8-up            Default: 1-up            Configuration Menu Equivalent:            UTILITY - DIRECT PRINT - N-UP LAYOUT</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Download Font/Form



*This page appears only if an optional hard disk drive is installed.*

## PS Font



The printer must have an optional hard disk drive to use the PS Font parameters described below.

The **Print - Download Font/Form - PS Font** window allows you to configure the following items:

Item		Description
Download PS Font	Radio button	Specifies the download destination of the font.
	Text box	Specifies the file name for the PostScript font to be downloaded.
	Browse button	Displays a dialog box for browsing to the PostScript font file.
	Submit button	Sends the specified PostScript font file to the printer.
Delete PS Font	Check box	Select the check box of the font to be deleted, and then click <b>Delete</b> button to delete the selected font from the printer.
	Number	Displays the control number of the font.
	Font Name	Displays the name of the fonts.
	Source	Displays the storage source of the font.
Delete button		Deletes the PostScript font file(s) whose check boxes the left end are checked.

## Form Overlay

The **Print - Download Font/Form - Form Overlay** window allows you to configure the following items:

Item		Description
Download Form Overlay	Radio button	Specifies the download destination of the form overlay file.
	Text box	Specifies the file name for the form overlay to be downloaded.
	Browse button	Displays a dialog box for browsing to the form overlay file.
	Submit button	Sends the specified form overlay file to the printer.

Item		Description
Delete Form Overlay	Check box	Select the check box of the form overlay file to be deleted, and then click <b>Delete</b> button to delete the selected form overlay from the printer.
	Number	Displays the control number of the overlay.
	File Name	Displays the name of the overlays.
	Source	Displays the storage source of the form overlay.
Delete button		Deletes the PostScript font file(s) whose check boxes the left end are checked.

### Color Profile

The **Print - Download Font/Form - Color Profile** window allows you to configure the following items:

Item		Description
Download Color Profile	Radio button	Specifies the download destination of the color profile.
	Text box	Specifies the file name for the color profile to be downloaded.
	Browse button	Displays a dialog box for browsing to the color profile file.
	Submit button	Sends the specified color profile file to the printer.
Delete Color Profile	Check box	Select the check box of the color profile file to be deleted, and then click <b>Delete</b> button to delete the selected color profile from the printer.
	Number	Displays the control number of the color profile.
	File Name	Displays the name of the color profile.
	Profile Name	Displays the name of the color profile.
	Class	Displays the type of color profile.
	Color Space	Displays the color space for the color profile.
	Source	Displays the storage source of the color profile.

Item	Description
Delete button	Deletes the PostScript font file(s) whose check boxes the left end are checked.

## Scan Page

On the **Scan** page, settings for the destination information to be registered in the machine and the scan transmission settings can be specified.

### Favorite

The **Scan - Favorite** page, settings for address and group can be specified.

Item	Description
No.	Displays the number in the Favorite list.
Name	Displays the destination name of the selected address (group) number.
Address	Displays the address of the selected address number. With a group destination, "(Group)" is displayed.
From Address button	Adds a selected address list to the Favorite list. For details, refer to "From Address" on page 243.
From Group button	Adds a selected group to the Favorite list. For details, refer to "From Group" on page 244.
Delete icon	Deletes the selected destination from the Favorite list.

### From Address

The **Scan - Favorite - Address List** window allows you to configure the following items.

Item	Description
Address List	Click to jump to the beginning of the No.of address list within the same page.
Radio button	Select a radio button to select a destination registered in the list. Default: Cleared.
No.	Displays the address number.
Name	Displays the destination of the address number.
Address	Displays the destination information (e-mail address, FTP address or SMB address) registered with the address number.

Item	Description
Apply button	Applies configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.
Cancel button	Cancels the operation and returns to the Favorite List page.

### From Group

The **Scan - Favorite - Group List** window allows you to configure the following items:

Item	Description
Radio button	Select a radio button to select a destination from the registered list. Default: Cleared
No.	Displays the group number.
Name	Displays the name of the group.
Address	Shows whether the registered group contains e-mail destinations.
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.
Cancel button	Cancels the operation and returns to the Favorite List page.

### Address Setting

The **Scan - Address Setting** window, settings for address can be specified.

Item	Description
Address List	Click to jump to the beginning of the address list within the same page. Address number of 001 - 220 are E-mail destinations. Address number of 221 - 250 are FTP and SMB destinations.

Item	Description
No.	<p>Displays the number in the address list. Click an address number where no destination is registered to add a destination from the <b>Address Registration</b> page.</p> <p>If a destination is already registered with the address number that is clicked, the registered information can be edited.</p> <p>When registering an e-mail address or an address found with an LDAP search as an address number, refer to “Address Registration” on page 246.</p> <p>When registering an FTP or SMB destination, refer to “Address Registration (Scan to Server)” on page 247.</p>
Name	Displays the destination name of the address number.
Address	Displays the destination information (e-mail address, FTP address or SMB address) registered with the address number.
Delete button	Deletes the selected destination from the address.

## Address Registration

The **Scan - Address Setting - Address Registration** window, select the type of Address destination to be added.

Item	Description
Speed Registration	<p>From the drop-down list, select the type of address destination to be added.</p> <p>If "E-mail" is selected, the <b>E-mail Destination</b> page will be displayed. For details, refer to "E-mail Destination" on page 246.</p> <p>If "LDAP Search" is selected, the <b>LDAP Search</b> page will be displayed. For details, refer to "LDAP Search" on page 247.</p> <p>Choices: E-mail, LDAP Search Default: E-mail</p> <p> <i>If <b>LDAP</b> in the <b>Network - LDAP</b> page is set to <b>Disable</b>, <b>LDAP Search</b> does not appear.</i></p>
Apply button	Displays the page for the type of address destination selected from the list.
Clear button	Resets all configuration settings for this window to their user defaults.

## E-mail Destination

The **Scan - Address Setting - E-mail Destination** window allows you to configure the following items:

Item	Description
Destination Name	<p>Specify the name of the destination.</p> <p>Range: Up to 20 characters. Default: [Blank]</p>
Destination Address	<p>Specify the E-mail address of the destination.</p> <p>Range: Up to 64 characters Default: [Blank]</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

## LDAP Search

The **Scan - Address Setting - LDAP Search** window allows you to configure the following items:

Item	Description
LDAP Search	Specify the method for searching for the destination. Choices: Name, E-mail Default: Name
LDAP Search String	Specify the LDAP search string. Range: Up to 20 characters Default: [Blank]
Apply button	Starts the LDAP searching.
Clear button	Resets all configuration settings for this window to their user defaults.



*When an LDAP server is used, the correct search results may not be retrieved when the search is performed from a server using anonymous access.*

## Address Registration (Scan to Server)

On the **Scan - Address Setting - Address Registration** page, select the server type of address destination to be added.

Item	Description
Address Registration	From the drop-down list, select the type of address destination to be added. If "FTP" is selected, refer to "For FTP Server" on page 248. If "SMB" is selected, refer to "For SMB server" on page 251. Choices: FTP, SMB Default: FTP
Apply button	Displays the page for the type of address destination selected from the list.
Clear button	Resets all configuration settings for this window to their user defaults.

## For FTP Server

The **Scan - Address Setting** of address registration (for FTP server) window allows you to configure the following items:



*The **Network - FTP - Client** screen, set to “Enable” from **Send** when sending to FTP server. Also, when sending via proxy server, specify the proxy server setting. For details, refer to “Client” on page 279.*

Item		Description
File Destination	Destination Name	Specify the name of the destination. Range: Up to 20 characters Default: [Blank]
	FTP Server Address	Specify the destination of IP address for FTP server. When using DNS server, host name can be specified instead of IP address. Range: Up to 64 characters Default: [Blank]
	Directory	Specify the destination directory on the FTP server. Range: Up to 127 characters Default: [Blank]
	Use Proxy	Select whether or not to use a proxy server to access the FTP server. Choices: On, Off Default: Off
	Remote Port Number	Specify the number of the port for the FTP server when a proxy server is not specified. Range: 1 to 65535 Default: 21
	PASV Mode	Select whether or not FTP transmissions are to be sent in PASV mode. Choices: On, Off Default: Off

Item	Description	
Basic Setting	Color Setting	Select the color tone to be used. Choices: BW Only, Color or Gray Default: Color or Gray
	Resolution	Select the resolution of the scanner. Choices: 150 x 150, 300 x 300, 600 x 600 Default: 300 x 300   <i>If “Color Setting” is set to “Color or Gray”, “600 x 600” cannot be selected.</i>
	Mode	Select the mode type for the scanner. Choices: Text, Photo, MIX Default: MIX   <i>If “Color Setting” is set to “BW Only”, select a setting.</i>
	Attachment file format	Select the desired file format. Choices: TIFF, PDF, JPEG Default: PDF   <i>If “Color Setting” is set to “BW Only”, “JPEG” cannot be selected.</i>
	Coding method	Select the coding method. Choices: MH, MR, MMR Default: MH   <i>If “Color Setting” is set to “Color or Gray”, no setting can be selected.</i>
	Scan area	Select the scanning area. Choices: A5, B5, A4, ST, LT, LG Default: A4 (metric), LT (inch)

Item		Description
E-mail Notification	Enable Notification	Select whether or not e-mail notifications are to be sent after a transmission to an FTP server is completed. Choices: On, Off Default: Off   <i>E-mail notification is not available when <b>Disable</b> is selected of <b>SMTP in Network - Email - Send Email</b> screen.</i>
	Notification Address	Register the destination e-mail address of notification. Up to 10 addresses can be registered. Range: Up to 64 characters Default: [Blank]
Account Information	Anonymous/Private Site	Select the type of account used for logging into the FTP server. If "Anonymous" is selected, log in with "Anonymous" as the account name and "guest" as the password. If "Private Site" is selected, be sure to specify settings for <b>User Name</b> , <b>Password</b> and <b>Confirm</b> . Choices: Anonymous, Private Site Default: Anonymous
	User Name	Specify the user name to log in to FTP server when Private Site is selected. Range: Up to 20 characters
	Password	Specify the password to log in to FTP server when Private Site is selected. Range: Up to 20 characters
	Confirm	Type in the password again for confirmation. Range: Up to 20 characters
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

## For SMB server

The **Scan - Address Setting** of address registration (for SMB server) window allows you to configure the following items:



The **Network - SMB** screen, set to “Enable” from **Send** when sending to SMB server. For details, refer to “SMB” on page 288.

Item		Description
File Destination	Destination Name	Specify the name of the destination. Range: Up to 20 characters Default: [Blank]
	Destination Address	Specify the destination IP address of SMB server or NetBIOS. Range: Up to 64 characters Default: [Blank]
	Directory	Specify the destination directory on the SMB server. Range: Up to 128 characters Default: [Blank]
Basic Setting	Color Setting	Select the color tone to be used. Choices: BW Only, Color or Gray Default: Color or Gray
	Resolution	Select the resolution of the scanner. Choices: 150 x 150, 300 x 300, 600 x 600 Default: 300 x 300   If “Color Setting” is set to “Color or Gray”, “600 x 600” cannot be selected.
	Mode	Select the mode type for the scanner. Choices: Text, Photo, MIX Default: MIX   If “Color Setting” is set to “BW Only”, select a setting.

Item		Description
	Attachment file format	Select the desired file format. Choices: TIFF, PDF, JPEG Default: PDF   <i>If “Color Setting” is set to “BW Only”, “JPEG” cannot be selected.</i>
	Coding method	Select the coding method. Choices: MH, MR, MMR Default: MH If “Color Setting” is set to “Color or Gray”, no setting can be selected.
	Scan area	Select the scanning area. Choices: A5, B5, A4, ST, LT, LG Default: A4 (metric), LT (inch)
E-mail Notification	Enable Notification	Select whether or not e-mail notifications are to be sent after a transmission to an SMB server is completed. Choices: On, Off Default: Off   <i>E-mail notification is not available when <b>Disable</b> is selected of <b>SMTP in Network - Email - Send Email</b> screen.</i>
	Notification Address	Register the destination e-mail address of notification. Up to 10 addresses can be registered. Range: Up to 64 characters Default: [Blank]

Item		Description
Account Information	Anonymous/Private Site	Select the type of account used for logging into the FTP server. If “Anonymous” is selected, log in with “Anonymous” as the account name and “guest” as the password. If “Private Site” is selected, be sure to specify settings for <b>User Name</b> , <b>Password</b> and <b>Confirm</b> . Choices:    Anonymous, Private Site Default:    Anonymous
	User Name	Specify the user name to log in to SMB server when Private Site is selected. Range:    Up to 20 characters
	Password	Specify the password to log in to SMB server when Private Site is selected. Range:    Up to 20 characters
	Confirm	Type in the password again for confirmation. Range:    Up to 20 characters
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

## Group Setting

On the **Scan - Group Setting** page, settings for group can be specified.

Item	Description
No.	Displays the number in the group list. Click a group number where no destination is registered to add in the <b>Group Registration</b> page. For details, refer to “Group Registration (Destination type)” on page 254. If a group is already registered with the number that is clicked, the registered information can be edited.
Name	Displays the name of the group.
Address	Shows whether the registered group contains e-mail destinations.
Delete button	Deletes the corresponding group.

### Group Registration (Destination type)

In the **Scan - Group Setting - Group Registration** window, select the type of group destination to be added.

Item	Description
Group Registration	From the drop-down list, select the type of group destination to be added. If “E-mail” is selected, a group of <b>E-mail destinations</b> will displayed. For details, refer to “Group Registration (Add Destinations)” on page 255.
Apply button	Displays the page for the type of address destination selected from the list.
Clear button	Resets all configuration settings in this page to their user defaults.

## Group Registration (Add Destinations)

The **Scan - Group Setting - Group Registration** window allows you to configure the following items:

Item	Description
Group Name	Specify the name of the group. Range: Up to 20 characters. Default: [Blank]
Address Index	Click to jump to the beginning of the address list within the same page.
Address 001-020 Address 021-040 Address 041-060 Address 061-080 Address 081-100 Address 101-120 Address 121-140 Address 141-160 Address 161-180 Address 181-200 Address 201-220	Displays the list of registered address numbers, 20 at a time. Select the check box on the left side of the list to add the corresponding address destination to a group.  <i>SMB and FTP destination type cannot be registered in the group.</i>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.

## User Setting

In the **Scan - User Setting** window allows you to configure the following items:

Item	Description
Country Setting	Displays the country where this machine is installed. Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - Country SETTING
Preset Zoom	Select whether the zoom method is aligned on inch paper sizes or metric sizes. Choices: Inch, Metric Default: Inch Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - USER SETTING - PRESET ZOOM
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Downloading/Uploading Destination List

In the **Scan - Downloading/Uploading Destination List** window, the destination information can be downloaded or uploaded.

Item	Description
Download	Click the <b>Apply</b> button to save the registered destinations as a file on the computer being used.
Upload	Click <b>Browse</b> button to display the dialog box for browsing to the folder where the file containing the machine settings was saved. Specify the location of the file containing the destinations, and then click the <b>Apply</b> button to write the destinations to the machine.



*When making changes to an exported CSV file, use a text editor. If the file is not saved using a text editor, an error will occur when the file is imported.*

## Network Page

This page allows you to configure network settings. For more information on these protocols, see chapter 5, “Network Printing.”

## TCP/IP

### TCP/IP

The **Network - TCP/IP - TCP/IP** window allows you to configure the following items. For more information on these TCP/IP, see chapter 5, “Network Printing.”

Item	Description
TCP/IP	Select whether or not to make a connection via TCP/IP. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - TCP/IP
Speed	Specifies the operating mode and speed for Ethernet. Choices: Auto, 10Base-T(Half), 10Base-T(Full), 100Base-TX(Half), 100Base-TX(Full), 1000Base-T(Full) Default: Auto Configuration Menu Equivalent: UTILITY- ADMIN. MANAGEMENT - NETWORK SETTING - SPEED/DUPLEX
LPD	Select whether or not LPD is used. Choices: Enable, Disable Default: Enable
SLP	Select whether or not SLP is used. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY- ADMIN. MANAGEMENT - NETWORK SETTING - SLP
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## IPv4 Settings

The **Network - TCP/IP - IPv4 Settings** window allows you to configure the following items. For more information on these TCP/IP, see chapter 5, “Network Printing.”

Item	Description
Auto IP	<p>Specifies the automatic assigning method for the printer IP address.</p> <p>Choices: DHCP, BootP, ARP/PING Default: DHCP Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DHCP, BOOTP, ARP/ PING</p>
IP Address*	<p>Sets the printer's IP address.</p> <p>Range: 0–255 for each xxx triplet Default: 0.0.0.0</p> <p> <i>If the specified IP address is outside of the allowable range, the value is not changed, even after the <b>Apply</b> button is clicked. The setting returns to the previous value.</i></p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. SETTING</p>
Subnet Mask*	<p>Sets the printer's subnet mask address.</p> <p>Range: 0–255 for each xxx triplet Default: 0.0.0.0</p> <p> <i>If the specified subnet mask address is outside of the allowable range, the value is not changed, even after the <b>Apply</b> button is clicked. The setting returns to the previous value.</i></p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. SETTING</p>

Item	Description
Default Gateway*	<p>If a router is used on the network, sets the router's address.</p> <p>Range: 0–255 for each xxx triplet Default: 0.0.0.0</p> <p> <i>If the specified router address is outside of the allowable range, the value is not changed, even after the <b>Apply</b> button is clicked. The setting returns to the previous value.</i></p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. SETTING</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.
<p>* Always enter these addresses without leading zeros. For example, 131.011.010.001 should be entered as 131.11.10.1.</p>	

### IPv6 Settings

The **Network - TCP/IP - IPv6 Settings** window allows you to configure the following items.

Item	Description
IPv6	<p>Select whether or not IPv6 is used.</p> <p>Choices: Enable, Disable Default: Enable</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPv6 - DISABLE/ ENABLE</p>
IPv6 Auto Setting	<p>Select whether or not the IPv6 auto setting is used.</p> <p>Choices: Enable, Disable Default: Enable</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPv6 - AUTO SETTING</p>

Item	Description
IPv6 Link Local Address	Displays IPv6 Link Local Address. Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPv6 - LINK LOCAL
IPv6 Global Address	Specifies the IPv6 Global Address. Range: Up to 43 characters Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPv6 - GLOBAL ADDRESS   <i>When IPv6 Auto Setting is set to Enable, this item is not applied, even if the setting is changed.</i>
IPv6 Gateway Address	Specifies the IPv6 Gateway Address. Range: Up to 39 characters Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPv6 - GATEWAY ADDRESS   <i>When IPv6 Auto Setting is set to Enable, this item is not applied, even if the setting is changed.</i>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

### RAW Port Settings

The **Network - TCP/IP - RAW Port Settings** window allows you to configure the following items.

Item	Description
RAW Port	Select whether or not RAW port is used. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - RAW PORT - DISABLE/ENABLE

Item	Description
RAW Port Number	<p>Specify the number of the printer's RAW port.            Choices: 1 to 65535            Default: 9100</p> <p> <i>The currently used port number and numbers 80, 161, 427, 443, 515, 631 and 4567 cannot be specified.</i></p>
RAW Port Bidirectional	<p>Select whether or not the RAW Port bidirectional is used.            Choices: Enable, Disable            Default: Disable            Configuration Menu Equivalent:                UTILITY - ADMIN. MANAGEMENT -                NETWORK SETTING - RAW PORT -                BIDIRECTIONAL</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## DNS Settings

The **Network - TCP/IP - DNS Settings** window allows you to configure the following items.

Item	Description
Host Name	<p>Specifies the host name.</p> <p>Range: Up to 63 characters Default: AL-CX28-xxxxxx</p> <p> <i>xxxxxx displays six last digits of the MAC address in hexadecimal.</i></p>
Domain Name	<p>Specifies the domain name.</p> <p>Range: Up to 63 characters Default: [Blank]</p>
Domain Name Automatic Acquisition	<p>Select whether or not the domain name automatic acquisition is used.</p> <p>Choices: Enable, Disable Default: Enable</p>
DNS Server	<p>Specifies the DNS server. Up to three can be registered.</p> <p>Default: 0.0.0.0</p> <p> <i>An IPv4 or IPv6 address can be specified.</i></p>
DNS Server Automatic Acquisition	<p>Select whether or not the DNS server automatic acquisition is used.</p> <p>Choices: Enable, Disable Default: Enable</p>
Dynamic DNS	<p>Select whether or not Dynamic DNS is used.</p> <p>Choices: Enable, Disable Default: Disable</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - DYNAMIC DNS</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## IP Address Filtering

The **Network - TCP/IP - IP Address Filtering** page allows you to specify the IP address and limitations for accessing the printer.



*The settings described below are not applied to the DNS server and DHCP server.*



*If the range of permitted IP addresses in **Access Permission Address** overlaps the range of refused IP address in **Access Refuse Address**, the refuse setting of **Access Refuse Address** is given priority.*

Item	Description
Access Permission Address	<p>If <b>Enable</b> is selected, the range of IP addresses permitted access to the printer can be specified.</p> <p>A maximum of five ranges of permitted IP addresses can be specified. In addition, access from an IP address out of the specified range is prohibited.</p> <p>If <b>Disable</b> is selected, the permitted access setting is disabled.</p> <p>Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IP ADDR. FILTER - ACCESS PER.</p>
Range of IP address permitted access*	<p>Specify the range of IP addresses permitted access to the printer. Type the IP address at the beginning of the range into the box on the left, and the IP address at the end of the range into the box on the right.</p> <p>Range: 0-255 for each xxx triplet Default: 0.0.0.0</p> <p> <i>To specify a single IP address, type the same IP address into both the box for the starting IP address and for the ending IP address, or type "0.0.0.0" into the box for either the starting IP address or the ending IP address.</i></p> <p> <i>If the starting IP address is larger than the ending IP address, the setting is not applied.</i></p>

Item	Description
Access Refuse Address	<p>If <b>Enable</b> is selected, the range of IP addresses refused access to the printer can be specified.</p> <p>A maximum of five ranges of refused IP addresses can be specified.</p> <p>If <b>Disable</b> is selected, the refused access setting is disabled.</p> <p>Choices: Enable, Disable  Default: Disable  Configuration Menu Equivalent:  UTILITY - ADMIN. MANAGEMENT -  NETWORK SETTING - IP ADDR. FILTER -  ACCESS REFUSE</p>
Range of IP address refused access*	<p>Specify the range of IP addresses refused access to the printer. Type the IP address at the beginning of the range into the box on the left, and the IP address at the end of the range into the box on the right.</p> <p>Range: 0-255 for each xxx triplet  Default: 0.0.0.0</p> <p> <i>To specify a single IP address, type the same IP address into both the box for the starting IP address and for the ending IP address, or type "0.0.0.0" into the box for either the starting IP address or the ending IP address.</i></p> <p> <i>If the starting IP address is larger than the ending IP address, the setting is not applied.</i></p>
Apply button	Applies the configuration settings in this page.
Clear button	Resets all configuration settings to previous values.
<p>* Always enter these addresses without leading zeros. For example, 131.011.010.001 should be entered as 131.11.10.1.</p>	

## IPsec

The **Network - TCP/IP - IPsec** window allows you to configure the following items.

Item		Description
Generic Settings	IPsec	Displays whether to enable or disable the IPsec function.
	IKE Life Time	Display the IKE Life Time.
	IKE Diffie-Hellman Group	Display the IKE Diffie-Hellman Group.
	IPsec SA Life Time	Display the IPsec SA Life Time.
	Edit icon	Click this icon to display the settings page.
IKE Settings /IPsec SA Settings /IPsec Peer Settings		Displays the registered settings.
IKE Settings /IPsec SA Settings /IPsec Peer Settings (Edit icon)		Click this icon to display the settings page.
IKE Settings /IPsec SA Settings /IPsec Peer Settings (Delete icon)		Click this icon to delete the settings.
Apply button		Applies the configuration settings in this page.

### IPsec (General Settings)

The **Network - IPsec - General Settings** window allows you to configure the following items.

Item	Description
IPsec	Select whether to enable or disable the IPsec function. Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPSEC
IKE Life Time	Specifies the IKE Life Time (in seconds). Range: 80-604800 Default: 28800

Item	Description
IKE Diffie-Hellman Group	Selects IKE Diffie-Hellman Group. Choices: Group1, Group2 Default: Group2
IPsec SA Life Time	Specifies the IPsec SA life Time (in seconds). Range: 120-604800 Default: 3600
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.
Cancel button	Click to cancel the entered data and return to the <b>Network - TCP/IP - IPsec</b> page.

### IPsec (IKE Settings)

The **Network - IPsec - IKE Settings** window allows you to configure the following items.

Item	Description
No.	Displays the number (No.) to be registered.
Encryption Algorithm	Select the encryption algorithm to be used when creating a control tunnel. Choices: DES-CBC, 3DES-CBC Default: DES-CBC
Authentication Algorithm	Select the authentication algorithm to be used when creating a control tunnel. Choices: MD5, SHA-1 Default: MD5
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.
Cancel button	Click to cancel the entered data and return to the <b>Network - TCP/IP - IPsec</b> page.

### IPsec (IPsec SA Settings)

The **Network - IPsec - IPsec SA Settings** window allows you to configure the following items.

Item	Description
No.	Displays the number (No.) to be registered.
Security Protocol	Select the security protocol. Choices: AH, ESP, ESP & AH Default: AH
Encryption Algorithm for ESP	When <b>ESP</b> is selected for <b>Security Protocol</b> , specify the ESP encryption algorithm. Choices: None, DES-CBC, 3DES-CBC, AES-CBC, AES-CTR Default: None
Authentication Algorithm for ESP	When <b>ESP</b> is selected for <b>Security Protocol</b> , specify the ESP authentication algorithm. Choices: None, MD5, SHA-1 Default: None
Authentication Algorithm for AH	When <b>AH</b> is selected for <b>Security Protocol</b> , specify the AH authentication algorithm. Choices: MD5, SHA-1 Default: MD5
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.
Cancel button	Click to cancel the entered data and return to the <b>Network - TCP/IP - IPsec</b> page.

### IPsec (IPsec Peer Settings)

The **Network - IPsec - IPsec Peer Settings** window allows you to configure the following items.

Item	Description
No.	Displays the number (No.) to be registered.
Perfect Forward Secrecy	To increase the IKE strength, select <b>Use</b> . Choices: Not Use, Use Default: Not Use

Item	Description
Peer's Address	Specify the IP address of the peer. Range: 2 to 39 characters Default: [Blank]  <i>An IPv4 or IPv6 address can be specified.</i>
Pre-Shared Key	Specify the Pre-Shared Key text shared with the peer. Range: Up to 64 characters Default: [Blank]
Encapsulation Mode	Specify the operation mode of IPsec. Choices: Not Use, Tunnel Mode, Transport Mode Default: Not Use
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.
Cancel button	Click to cancel the entered data and return to the <b>Network - TCP/IP - IPsec</b> page.

## Bonjour

The **Network - Bonjour** page allows you to configure the following items.

Item	Description
Bonjour	Select whether to enable or disable the Bonjour function. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - BONJOUR
Bonjour Name	Specify the Bonjour name for the printer. Range: Up to 63 characters Default: AL-CX28-xxxxxx.local  <i>"xxxxxx" refers to the last six digits of the MAC address (in hexadecimal).</i>
Priority Protocol	Specify the connection protocol given priority with Bonjour. Choices: LPD, RAW Port, IPP Default: RAW Port
Apply button	Applies the configuration settings in this page.

Item	Description
Clear button	Resets all configuration settings to previous values.

## LDAP

In the **Network - LDAP** window, settings can be specified for the following parameters.

Item	Description
LDAP	Select whether or not the LDAP server is used. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - DISABLE/ENABLE
Server Address	Specify the address of the LDAP server. IPv4 address or FQDN (Fully Qualified Domain Name) can be specified. Range: Up to 64 characters Default: 0.0.0.0 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP SERVER ADDR.
Port Number	Specify the port number of the LDAP server. Range: 1 to 65535 Default: 389 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP PORT NO.
Enable SSL	Select whether SSL is enabled or disabled. Choices: On, Off Default: Off Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SSL SETTING
Port Number (SSL)	Specify the port number of the LDAP server when SSL is used. Range: 1 to 65535 Default: 636

Item	Description
Search Base	Specify the search starting point in a hierarchical structure arranged on the LDAP server. Range: Up to 64 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SEARCH BASE
Attribute	Specify the attribute that acquires. Range: Up to 32 characters Default: cn Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - ATTRIBUTE
Search Method	The specified characters can be searched for at the beginning, within or at the end. Choices: Begin, Contain, End Default: Contain Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - SEARCH METHOD
Timeout	Specify the maximum wait time during a search. Range: 5 to 300 Default: 60 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP TIMEOUT
Maximum Search Result	Specify the maximum number of destinations displayed after a search. Range: 5 to 100 Default: 100 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - MAX. SEARCH RESULTS

Item	Description
Authentication Method	<p>Select the authentication method used for logging on to the LDAP server.</p> <p>If “Anonymous” is selected, a user name and password are not necessary.</p> <p>If “Simple” is selected, a user name and password are necessary.</p> <p>If “Digest-MD5” is selected, use with a general LDAP server. This cannot be used with Active Directory.</p> <p>If “GSS-SPNEGO” is selected, use with Active Directory in Windows.</p> <p>Choices: Anonymous, Simple, Digest-MD5, GSS-SPNEGO</p> <p>Default: Anonymous</p> <p>Configuration Menu Equivalent:</p> <p style="padding-left: 40px;">UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - AUTHENTICATION</p> <p> <i>If “GSS-SPNEGO” is used, the address of the LDAP server to be used must be specified in the <b>System - Date/Time - Time Adjustment Settings - NTP Server Address</b> page, and the time on this machine and the LDAP server must be the same.</i></p>
LDAP Account	<p>Specify the account used to connect to the LDAP server.</p> <p>Range: Up to 64 characters</p> <p>Default: anonymous</p> <p>Configuration Menu Equivalent:</p> <p style="padding-left: 40px;">UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP ACCOUNT</p>
Password	<p>Specify the password used to connect to the LDAP server.</p> <p>Range: Up to 32 characters</p> <p>Default: [Blank]</p> <p>Configuration Menu Equivalent:</p> <p style="padding-left: 40px;">UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - LDAP PASSWORD</p>
Domain Name	<p>Specify the necessary domain name used to connect to the LDAP server.</p> <p>Range: Up to 64 characters</p> <p>Default: [Blank]</p> <p>Configuration Menu Equivalent:</p> <p style="padding-left: 40px;">UTILITY - ADMIN. MANAGEMENT - LDAP SETTING - DOMAIN NAME</p>
Apply button	Applies the configuration settings in this window.

Item	Description
Clear button	Resets all configuration settings to previous values.
Check Connection	Confirms whether the server can be logged in as the specified content or not.



*When an LDAP server is used, the correct search results may not be retrieved when the search is performed from a server using anonymous access.*

## WSD

The **Network - WSD** window allows you to configure the following items:

Item	Description
WSD Print	Select whether to enable or disable the WSD print function.  Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - WSD PRINT
Secure Mode	Select whether or not WSD communication is performed with SSL.  Choices: Enable, Disable Default: Disable   <i>This items appears only if the SSL/TLS settings are enabled.</i>
Device Name	Displays the Device name. Default: AL-CX28-xxxxxx   <i>Specify the settings from the <b>System - Machine Settings</b> page.</i>
Device Location	Displays the Device location. Default: [Blank]   <i>Specify the settings from the <b>System - Machine Settings</b> page.</i>

Item	Description
Device Information	<p>Displays the Device information.</p> <p>Default: [Blank]</p> <p> Specify the settings from the <b>System - Machine Settings</b> page.</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## NetWare

### NetWare

The **Network - NetWare - NetWare** window allows you to configure the following items

Item	Description
NetWare	<p>NetWare Print</p> <p>Enables or Disables the NetWare print option.</p> <p>Choices: Enable, Disable</p> <p>Default: Disable</p> <p>Configuration Menu Equivalent:  UTILITY - ADMIN.  MANAGEMENT - NETWORK  SETTING - NETWARE</p>
	<p>Frame Type</p> <p>Specifies the Frame Type.</p> <p>Choices: Auto, Ethernet 802.2, Ethernet 802.3, Ethernet II, Ethernet SNAP</p> <p>Default: Auto</p>
	<p>Mode</p> <p>Specifies the NetWare Configuration mode.</p> <p>Choices: Disable, PServer, NPrinter/ RPrinter</p> <p>Default: Disable</p>

Item		Description
PServer	Print Server Name	<p>Sets the Print Server Name for the printer.</p> <p>Range: Up to 63 characters Default: AL-CX28-xxxxxx</p> <p> xxxxxx displays six last digits of the MAC address in hexadecimals.</p>
	Print Server Password	<p>Sets the Print Server password.</p> <p>Range: Up to 31 characters Default: [Blank]</p>
	Retype Password	<p>Verifies the new password typed in the Print Server Password text box.</p> <p>Range: Up to 31 characters Default: [Blank]</p>
	Print Queue Scan Rate	<p>Sets the number of the queue scan interval.</p> <p>Range: 1 - 65535 (Seconds) Default: 1</p>
	Bindery/NDS	<p>Specifies the bindery options.</p> <p>Choices: NDS, Bindery/NDS, Bindery Default: NDS</p>
	Preferred File Server	<p>Sets the Preferred File Server for the printer.</p> <p>Range: Up to 47 characters Default: [Blank]</p>
	Preferred NDS Context Name	<p>Sets the Preferred NDS Context for the printer.</p> <p>Range: Up to 191 characters Default: [Blank]</p>
	Preferred NDS Tree Name	<p>Sets the Preferred NDS Tree for the printer.</p> <p>Range: Up to 63 characters Default: [Blank]</p>

Item		Description
NPrinter/ RPrinter	Printer Name	Sets the printer's name.  Range: Up to 63 characters Default: AL-CX28-xxxxxx   xxxxxx displays six last digits of the MAC address in hexadecimal.
	Printer Number	Sets the Printer Number.  Range: 0 - 255 Default: 255
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

### NetWare Status

The **Network - NetWare - NetWare Status** window allows you to configure the following items:

Item	Description
File Server	Identifies current NetWare File Server.
Queue Name	Identifies current NetWare queue name.
Queue Status	Identifies current NetWare status.

### IPP

The **Network - IPP** window allows you to configure the following items. For details on IPP, refer to chapter 5, "Network Printing." In order to apply the settings, the printer must be turned off, then on again after the setting is specified.

Item	Description
IPP Print	Selects whether or not to use IPP.  Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IPP

Item	Description
Accept IPP Job	Selects whether or not to accept IPP Job. Choices: Enable, Disable Default: Enable
Printer Name	Displays the printer's name. Range: Up to 127 characters Default: AL-CX28-xxxxxx  <i>Specify the settings from the <b>System - Machine Settings</b> page.</i>
Printer Location	Displays the printer's location. Default: [Blank]  <i>Specify the settings from the <b>System - Machine Settings</b> page.</i>
Printer Information	Displays the printer information. Default: [Blank]  <i>Specify the settings from the <b>System - Machine Settings</b> page.</i>
Printer URI	Displays the printer's Uniform Resource Identifier (URI). <ul style="list-style-type: none"> <li>■ http://&lt;IP_address&gt;/ipp</li> <li>■ http://FQDN:/ipp</li> <li>■ ipp://&lt;IP_address&gt;/ipp</li> <li>■ ipp://FQDN:/ipp</li> <li>■ https://&lt;IP_address&gt;/ipp</li> <li>■ https://FQDN:/ipp</li> </ul>  <i>"https://&lt;IP_address&gt;/ipp", and "https://FQDN:/ipp" appear only if the SSL/TLS settings are enabled.</i>

Item		Description
Operational Support	Print Job	If this check box is selected, Print Job is enabled. Default: Checked
	Validate Job	If this check box is selected, Validate Job is enabled. Default: Checked
	Cancel Job	If this check box is selected, Cancel Job is enabled. Default: Checked
	Get Job Attributes	If this check box is selected, Get Job Attribute is enabled. Default: Checked
	Get Jobs	If this check box is selected, Cancel Job is enabled. Default: Checked
	Get Print Attributes	If this check box is selected, Get Printer Attribute is enabled. Default: Checked
IPP Authentication		Specifies the authentication method for IPP connections.  Choices: None, Requesting-user-name, Basic, Digest Default: Requesting-user-name
User Name		Specify the user name used with Basic or Digest authentication.  Range: Up to 20 characters Default: user
Password		Specify the password used with Basic or Digest authentication.  Range: Up to 20 characters Default: pass
Realm		Specify the realm used with Basic or Digest authentication.  Range: Up to 127 characters Default: IPP

Item	Description
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## FTP

### Server

The **Network - FTP - Server** window allows you to configure the following items:

Item	Description
FTP Server	Enables or Disables the FTP server.  Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - FTP
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

### Client

In the **Network - FTP - Client** window, settings can be specified for the following parameters.

Item	Description
Send	If <b>Enable</b> is selected, FTP transmission is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NET- WORK SETTING - FTP TX
Proxy Server	Specify the address when using via proxy server. IPv4 address or FQDN (Fully Qualified Domain Name) can be specified. Range: Up to 64 characters Default: 0.0.0.0
Proxy Port Number	Specify the port number for the proxy server. Range: 1 to 65535 Default: 21

Item	Description
Connection Time-out	Select the amount of time (in seconds) until the connection with the FTP server times out. Range: 5 to 300 Default: 60
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

## SNMP

The **Network - SNMP** window allows you to configure the following items:

Item	Description
SNMP	<p>If <b>Enable</b> is selected, SNMP is enabled.</p> <p>Choices: Enable, Disable Default: Enable</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - SNMP</p>
SNMP v1/v2c(IP)	<p>If <b>Enable</b> is selected, SNMP v1/v2c(IP) is enabled.</p> <p>Choices: Enable, Disable Default: Enable</p>
SNMP v3(IP)	<p>If <b>Enable</b> is selected, SNMP v3(IP) is enabled.</p> <p>Choices: Enable, Disable Default: Enable</p>
SNMP v1(IPX)	<p>If <b>Enable</b> is selected, SNMP v1(IPX) is enabled.</p> <p>Choices: Enable, Disable Default: Enable</p> <p> <i>In order for this parameter to be available, <b>NetWare Print</b> in the <b>Network - NetWare</b> page must be set to <b>Enable</b>.</i></p>
UDP Port	<p>Specifies the UDP port number.</p> <p>Range: 1 - 65535 Default: 161</p> <p> <i>The numbers 427 and 500 cannot be specified.</i></p>

Item		Description
SNMP v1/ v2c/(IP)	Read Community Name	Specifies the community name to be used for scanning. Range: Up to 15 characters Default: public
	Write	If <b>Enable</b> is selected, Write is enabled. Choices: Enable, Disable Default: Enable
	Write Community Name	Specifies the community name to be used for reading and writing. Range: Up to 15 characters Default: private
SNMP v3	Context Name	Specifies the context name. Range: Up to 63 characters Default: [Blank]
	Discovery	If <b>Enable</b> is selected, Discovery is enabled. Choices: Enable, Disable Default: Enable
	Discovery User Name	Specifies the user name for detection. Range: Up to 32 characters Default: public
	Read User Name	Specifies the name of read only user. Range: Up to 32 characters Default: initial  <i>The same name specified as the Discovery User Name and Write User Name cannot be used.</i>
	Read Security Level	Specifies the security level for read only user. Choices: None, Auth-password, Auth-password/ Priv-password Default: Auth-password/Priv-password
	Read Auth-pass- word	Specifies the read only user authentication password to be used for authentication. Range: 8 to 32 characters Default: AuthPassword

Item		Description
	Read Priv-pass-word	Specifies the read only user privacy password to be used for privacy (encryption). Range: 8 to 32 characters Default: PrivPassword
	Write User Name	Specifies the reading/writing user name. Range: Up to 32 characters Default: restrict  <i>The same name specified as the Discovery User Name and Write User Name cannot be used.</i>
	Write Security Level	Specifies the security level for reading/writing user. Choices: None, Auth-password, Auth-password/Priv-password Default: Auth-password/Priv-password
	Write Auth-pass-word	Specifies the reading/writing user authentication password to be used for authentication. Range: 8 to 32 characters Default: <Mac address> (excluding colons)
	Write Priv-pass-word	Specifies the reading/writing user privacy password to be used for privacy (encryption). Range: 8 to 32 characters Default: <Mac address> (excluding colons)
Trap Settings	Allow Setting	Specifies whether or not to permit the Trap settings Choices: Allow, Restrict Default: Allow
	Trap Setting When Authentication Fails	Specifies whether to enable or disable the Trap settings when authentication failed. Choices: Enable, Disable Default: Disable
Apply button		Applies the configuration settings for this window.
Clear button		Resets all configuration settings to previous values.

## AppleTalk

The **Network - AppleTalk** window allows you to configure the following items:

Item	Description
AppleTalk	If <b>Enable</b> is selected, AppleTalk is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - APPLETALK
Printer Name	Sets the printer name. Range: Up to 31 characters Default: AL-CX28-xxxxxx  xxxxxx displays six last digits of the MAC address in hexadecimals.
Zone Name	Sets the Zone Name. Range: Up to 31 characters Default: *
Current Zone Name	Identifies the current zone name.
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Email

### Send Email

The **Network - Email - Send Email** window allows you to configure the following items:

Item	Description
E-mail	SMTP If "Enable" is selected, sending E-mail is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP
Scan Sending	If "Enable" is selected, scan sending is enabled. Choices: Enable, Disable Default: Enable

Item	Description
Sender Name	<p>Specify the name of the E-mail sender when using network scanning.</p> <p>Range: Up to 20 characters</p> <p>Default: EPSON AL-CX28</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SENDER NAME</p>
E-mail Address	<p>Specify the E-mail address of the sender when using network scanning.</p> <p>Range: Up to 64 characters</p> <p>Default: [Blank]</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - E-MAIL ADDRESS</p> <p> <i>If the <b>E-mail Address</b> text box remains blank when the <b>Apply</b> button is clicked, an error appears. Be sure to specify an appropriate setting.</i></p>
Default Subject	<p>Specify the subject of the E-mail message when using network scanning.</p> <p>Range: Up to 20 characters</p> <p>Default: from EPSON AL-CX28</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - DEFAULT SUBJECT</p>
SMTP Server Address	<p>Specify the IP address or host name for the SMTP server.</p> <p>Range: Up to 64 characters</p> <p>Default: 0.0.0.0</p> <p>Configuration Menu Equivalent:</p> <p>UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP SERVER ADDR.</p> <p> <i>When specifying a setting for <b>SMTP Server Address</b>, also specify a setting for <b>E-mail Address</b>.</i></p>

Item		Description
	Port Number	Specify the port number communicating with the SMTP server. Range: 1-65535 Default: 25 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP PORT NO.
	Connection Timeout	Select the amount of time (in seconds) until the connection with the SMTP server times out. Range: 30-300 Default: 60 Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP TIMEOUT
	Text Insert	Select whether or not text is inserted into the body of the e-mail message when sending e-mail with a Scan to E-mail operation. Choices: On, Off Default: Off Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - TEXT INSERT
Authentication	POP before SMTP	If Enable is selected, POP before SMTP is enabled. Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - DISABLE/ENABLE
	POP before SMTP Time	Specify the time period to access the SMTP server after logging in to the POP server. Range: 0 - 60 (in seconds) Default: 1

Item	Description
POP3 Server Address	<p>Type in the host name or IP address for the POP3 server used for authentication with POP before SMTP.</p> <p>Range: Up to 64 characters Default: 0.0.0.0</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 SERVER ADDR.</p>
Account Name	<p>Type in the account name used for POP3 server.</p> <p>Range: Up to 63 characters Default: [Blank]</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 ACCOUNT</p>
Password	<p>Type in the password used for POP3 server.</p> <p>Range: Up to 15 characters Default: [Blank]</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 PASSWORD</p>
Port Number	<p>Specify the port number used for communicating with the SMTP server.</p> <p>Range: 1 to 65535 Default: 110</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 PORT NO.</p>
POP3 Timeout	<p>Select the amount of time (in seconds) until the connection with the POP3 server times out.</p> <p>Range: 30 to 300 Default: 30</p> <p>Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - POP BEFORE SMTP - POP3 TIMEOUT</p>

Item	Description
SMTP Authentication	If "Enable" is selected, SMTP Authentication is enabled. Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - DISABLE/ENABLE
User Name	Type in the user name used for authentication with SMTP Authentication. Range: Up to 63 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - SMTP USER NAME
Password	Type in the password used for authentication with SMTP Authentication. Range: Up to 15 characters Default: [Blank] Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - E-MAIL SETTING - SMTP AUTH. - SMTP PASSWORD
Realm	If "Digest-MD5" is selected as the SMTP authentication method, specify the realm. Range: Up to 255 characters Default: [Blank]
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings for this window to their user defaults.



*Use alphanumeric characters (including some symbols) for the Sender Name and Default Subject. Using other characters will corrupt the characters for the E-mail destination. For details on characters that can be entered, refer to the User's Guide on the software CD-ROM.*

## SMB

In the **Network - SMB** window, settings can be specified for the following parameters.

Item	Description
Send	If <b>Enable</b> is selected, SMB transmission is enabled. Choices: Enable, Disable Default: Enable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - SMB
NTLM Setting	Select the version of NTLM Setting. Choices: v1, v2, v1/v2 Default: v1
User Authentication	Select whether or not NTLM user authentication is performed. Choices: On, Off Default: On
Apply button	Applies the configuration settings in this window.
Clear button	Resets all configuration settings to previous values.

## SSL/TLS

### SSL/TLS Information

The **Network - SSL/TLS - SSL/TLS Information** page allows you to specify SSL/TLS settings.



*As a default, SSL/TLS is not installed. Click **Setting** to create a certificate and specify the SSL settings.*

Item	Description
Setting button	Displays the <b>SSL/TLS Setting</b> page.

### SSL/TLS Setting (When a certificate is not installed)

The **Network - SSL/TLS - SSL/TLS Setting** page allows you to select the following SSL/TLS settings that appear.

Item	Description
Create a Self-signed Certificate	Creates a self-signed certificate.

Item	Description
Request a Certificate	Creates data for requesting that a certificate to be issued from a certificate authority.
Install a Certificate	Installs the certificate issued by the certificate authority.
Next button	Click to display the selected page.
Cancel button	Click to cancel the entered data and return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## SSL/TLS Setting (When a certificate is installed)

The **Network - SSL/TLS - SSL/TLS Setting** page allows you to select the following SSL/ TLS settings that appear.

Item	Description
Request a Certificate	Creates data for requesting that a certificate be issued from a certificate authority.
Set a Encryption Strength	Specifies the encryption level. In addition, SSL/TLS can be disabled.
Remove a Certificate	Removes the certificate.
Mode Using SSL/TLS	Specifies the SSL transmission mode.
Next button	Click to display the selected page.
Cancel button	Click to cancel the entered data and return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Self-signed Certificate Setting

The **Network - SSL/TLS - Self-signed Certificate Setting** page allows you to create a certificate and specify SSL settings.

Item	Description
Common Name	Identifies the Common Name for the printer, to be used in creation of an SSL Certificate. It is comprised of "Printer Host Name. DNS Server". If DNS Server is un-available, only the host name is used as Common Name.   <i>This text is read-only.</i>

Item	Description
Organization	Specify the name of the group or organization. Range: Up to 63 characters Default: [Blank]
Organization Unit	Specify the name of the post. Range: Up to 63 characters Default: [Blank]
Locality	Specify the name of the municipality. Range: Up to 127 characters Default: [Blank]
State/Province	Specify the name of the state or province. Range: Up to 127 characters Default: [Blank]
Country	Specify the name of the country as a country code regulated by ISO03166. Range: 2 characters Default: [Blank]
Email Address	Specify the e-mail address. Range: Up to 127 characters Default: [Blank]
Validity Start Date	Displays the current time.
Validity Period	Specify the period of validity. Range: 1 - 3650 (day) Default: 1
Encryption Strength	Specify the encryption level. Choices: <ul style="list-style-type: none"> <li>■ AES_256bits, 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits</li> <li>■ 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits</li> <li>■ RC4_128bits, DES_56bits or RC4_40bits</li> </ul> Default: AES_256bits, 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits

Item	Description
Create button	Creates the self-signed certificate.  <i>A few minutes are needed in order to create the certificate.</i>
Back button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Setting</b> page.
Cancel button	Click to cancel the entered data and return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Request a certificate

The **Network - SSL/TLS - Request a Certificate** page allows you to configure the following items:

Item	Description
Common Name	Identifies the Common Name for the printer, to be used in creation of an SSL Certificate. It is comprised of "Printer Host Name. DNS Server". If DNS Server is un-available, only the host name is used as Common Name.  <i>This text is read-only.</i>
Organization	Specifies the name of the group or organization. Range: Up to 63 characters Default: [Blank]
Organization Unit	Specifies the name of the post. Range: Up to 63 characters Default: [Blank]
Locality	Specifies the name of the municipality. Range: Up to 127 characters Default: [Blank]
State/Province	Specifies the name of the state or province. Range: Up to 127 characters Default: [Blank]
Country	Specify the name of the country as a country code regulated by ISO03166. Range: 2 characters Default: [Blank]

Item	Description
Email Address	Specify the e-mail address. Range: Up to 127 characters Default: [Blank]
Next button	Click to create data for requesting that a certificate be issued.
Back button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Setting</b> page.
Cancel button	Click to cancel the entered data and return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Certificate Request

The **Network - SSL/TLS - Certificate Request** page displays the data that will be submitted to the certificate authority to request that a certificate be issued.

Item	Description
Certificate Request	Displays the data that should be submitted to the certificate signing authority. This is called CSR (Certificate Signing Request). This data is to be submitted to the certificate signing authority by the user.
Save button	Click to save the data for requesting the certificate with the specified name.
OK button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Install a Certificate

The **Network - SSL/TLS - Install a Certificate** page allows you to install the certificate issued by the certificate authority.

Item	Description
Install a Certificate	Signed CSR (Certificate Signing Request) should be pasted to this text area.
Next button	Click to display the <b>Network - SSL/TLS - Encryption Strength Setting</b> page.
Back button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Setting</b> page.
Cancel button	Click to cancel the entered data and return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Encryption Strength Setting



*This menu item appears if a certificate is installed.*

The **Network - SSL/TLS - Encryption Strength Setting** page allows you to specify the encryption level.

Item	Description
Encryption Strength	Specify the encryption level. Choices: <ul style="list-style-type: none"><li>■ AES_256bits, 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits</li><li>■ 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits</li><li>■ RC4_128bits, DES_56bits or RC4_40bits</li></ul> Default: AES_256bits, 3DES_168bits, RC4_128bits, DES_56bits or RC4_40bits
Create button	Click to specify the encryption level.  If the <b>Network - SSL/TLS - Install a Certificate</b> page was previously displayed, the certificate is installed.
Back button	Returns to the previous screen.
Cancel button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Remove a Certificate



*This menu item appears if a certificate is installed.*

The **Network - SSL/TLS - Remove a Certificate** page allows you to delete the installed certificate.

Item	Description
OK button	Click to display a confirmation message. Click <b>OK</b> in the confirmation message to delete the certificate.
Back button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Setting</b> page.
Cancel button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Mode Using SSL/TLS



*This menu item appears if a certificate is installed.*

The **Network - SSL/TLS - Mode Using SSL/TLS** page allows the SSL transmission mode to be specified.

Item	Description
Mode using SSL/TLS	Selects the SSL transmission mode. Choice: Disable, Enable Default: Disable
Apply button	Click to apply the setting specified beside "Mode using SSL/TLS".
Clear button	Resets all configuration settings to previous values.
Back button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Setting</b> page.
Cancel button	Click to return to the <b>Network - SSL/TLS - SSL/TLS Information</b> page.

## Authentication

### User Authentication

The **Network - Authentication - User Authentication** page allows you to specify user authentication settings.



*This page appears only if an optional hard disk drive is installed.*



*When **User Authentication** is set to **On** and **Public Access** is set to **Restrict** on this page, printing is not possible except from a host where authentication settings can be specified (Windows printer driver). In addition, resources (fonts, color profiles and form overlays) can no longer be downloaded and firmware can no longer be updated.*

Item	Description
User Authentication	Select whether or not user authentication is performed.  Choices: On, Off Default: Off
Public Access	Select whether or not logon as a Public user is permitted when authentication settings have been specified.  Choices: Allow, Restrict Default: Allow
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## Auto Logout

**Network - Authentication - Auto Logout** window allows you to configure the following items.

Item	Description
Admin. Mode Logout Time	Specify the length of time to automatically log off from Administrator mode.  Range: 1 - 60 (Minutes) Default: 10
User Mode Logout Time	Specify the length of time to automatically log off from User mode.  Range: 1 - 60 (Minutes) Default: 60
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## IEEE802.1x

The **Network - Authentication - IEEE802.1x** window allows you to configure the following items:

Item	Description
IEEE802.1x	Select whether to enable or disable the IEEE802.1x function.  Choices: Enable, Disable Default: Disable Configuration Menu Equivalent: UTILITY - ADMIN. MANAGEMENT - NETWORK SETTING - IEEE802.1X
EAP Type	Select the type of authentication used with IEEE802.1x.  Choices: None, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, LEAP, Server Specification Default: None
User ID	Specifies the account name, when <b>EAP Type</b> is set to <b>EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, LEAP</b> or <b>Server Specification</b> .  Range: Up to 128 characters Default: [Blank]

Item	Description
Password	<p>Specifies the password, when <b>EAP Type</b> is set to <b>EAP-MD5</b>, <b>EAP-TLS</b>, <b>EAP-TTLS</b>, <b>PEAP</b>, <b>LEAP</b> or <b>Server Specification</b>.</p> <p>Range: Up to 128 characters Default: [Blank]</p>
TTLS Anonymous Name	<p>Specify the logon name used with EAP-TTLS primary authentication. Specifies the TTLS anonymous name, when <b>EAP Type</b> is set to <b>EAP-TTLS</b> or <b>Server Specification</b>.</p> <p>Range: Up to 128 characters Default: anonymous</p> <p> <i>If <b>EAP Type</b> is set to <b>Server Specification</b> while the actual authentication method is <b>EAP-MD5</b>, type in the same name as the User ID.</i></p>
TTLS Authentication Type	<p>Specify the EAP-TTLS phase 2 authentication procedure. Specifies the TTLS anonymous type, when <b>EAP Type</b> is set to <b>EAP-TTLS</b> or <b>Server Specification</b>.</p> <p>Choices: PAP, MS-CHAP, MS-CHAPv2 Default: MS-CHAPv2</p>
Server Certificate Check	<p>Specify the items where the server certificate is verified. Specifies the server certificate check, when <b>EAP Type</b> is set to <b>EAP-TLS</b>, <b>EAP-TTLS</b> or <b>PEAP</b>.</p> <p>Choices: Validity, CA Chain, Server ID Default: Validity</p>
Send Client Certificate	<p>Select whether or not the client certificate is sent when the client certificate is requested by the server. Specifies the send client certificate, when <b>EAP Type</b> is set to <b>EAP-TTLS</b> or <b>PEAP</b>.</p> <p>Choices: Enable, Disable Default: Disable</p>
Client Certificate	<p>Shows whether or not a client certificate has been specified.</p> <p> <i>Specify the settings from the <b>Network - SSL/TLS</b> page.</i></p>

Item	Description
CA Certificate	<p>Shows whether or not a CA certificate has been specified for CA reliability verification of server certificates.</p> <p> Specify the settings from the <b>Network - Authentication - CA Certificate</b> page.</p>
Server ID	<p>Specify the characters for verification through backward matching with the CN attributes of the server certificate. Specifies the server ID, when <b>EAP Type</b> is set to <b>EAP-TLS</b>, <b>EAP-TTLS</b>, or <b>PEAP</b>.</p> <p>Range: Up to 64 characters Default: [Blank]</p>
Encryption Strength	<p>Specify the encryption level of TLS packets with EAP-TLS/TTLS/PEAP. Specifies the encryption strength, when <b>EAP Type</b> is set to <b>EAP-TLS</b>, <b>EAP-TTLS</b>, or <b>PEAP</b>.</p> <p>Choices: Low, Medium, High Default: Low</p>
Limit Time of Network Stop	<p>Specify the length of time to postpone stopping the network when authentication fails from the start of authentication.</p> <p>Range: 0, 60 - 255 (seconds) Default: 0</p>
Apply button	Applies the configuration settings for this window.
Clear button	Resets all configuration settings to previous values.

## CA Certificate

### CA Certificate Information

The **Network - Authentication - CA Certificate - CA Certificate Information** window allows you to specify CA Certificate settings.



*As a default, CA Certificate is not installed. Click **Setting** to create a certificate and specify the CA Certificate settings.*

Item	Description
Setting button	Displays the <b>CA Certificate Setting</b> page.

### CA Certificate Setting (When a certificate is installed)

The **Network - Authentication - CA Certificate - CA Certificate Settings** page allows you to select the following CA Certificate settings that appear.

Item	Description
Remove a Certificate	Removes the certificate.
Next button	Click to display the selected page.
Cancel button	Click to cancel the entered data and return to the <b>Network - Authentication - CA Certificate - CA Certificate Information</b> page.

### CA Certificate Setting (When a certificate is not installed)

The **Network - Authentication - CA Certificate - CA Certificate Settings** page allows you to select the following CA Certificate settings that appear.

Item	Description
Install a Certificate	Installs the certificate issued by the certificate authority.
Next button	Click to display the selected page.
Cancel button	Click to cancel the entered data and return to the <b>Network - Authentication - CA Certificate - CA Certificate Information</b> page.

### Install a Certificate

The **Network - Authentication - CA Certificate - Install a Certificate** page allows you to install the certificate issued by the certificate authority.

Item	Description
Install a Certificate	Signed CSR (Certificate Signing Request) should be pasted to this text area.

<b>Item</b>	<b>Description</b>
Next button	Click to display the <b>Network - Authentication - CA Certificate - Install a Certificate</b> page.
Back button	Click to return to the <b>Network - Authentication - CA Certificate - CA Certificate Settings</b> page.
Cancel button	Click to cancel the entered data and return to the <b>Network - Authentication - CA Certificate - CA Certificate Information</b> page.

### **Remove a Certificate**

The **Network - Authentication - CA Certificate - Remove a Certificate** page allows you to delete the installed certificate.

<b>Item</b>	<b>Description</b>
OK button	Click to display a confirmation message. Click <b>OK</b> in the confirmation message to delete the certificate.
Back button	Click to return to the <b>Network - Authentication - CA Certificate - CA Certificate Setting</b> page.
Cancel button	Click to return to the <b>Network - Authentication - CA Certificate - CA Certificate Information</b> page.

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