

Wireless network setup

- For a Static network environment

The machine uses the static address when the computer is configured to static address.

For example,

If the computer's network information is as shown below:

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

Then the machine's network information should be as below:

- IP address: 169.254.133.**43**
- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1

Other problems

If problems occur while using the machine on a network, check the following:



For information on the access point (or wireless router), refer to its own user's guide.

- You cannot enable wired and wireless networks at the same time.
- Your computer, access point (or wireless router), or machine may not be turned on.

- Check the wireless reception around the machine. If the router is far from the machine or there is an obstacle, you might have difficulty receiving the signal.
- Cycle the power for the access point (or wireless router), machine, and computer. Sometimes cycling the power can recover network communication.
- Check whether firewall software (V3 or Norton) is blocking the communication.

If the computer and the machine are connected on the same network and it cannot be found when searching, firewall software might be blocking the communication. Refer to the user's guide for the software to turn it off and try searching for the machine again.

- Check whether the machine's IP address is allocated correctly. You can check the IP address by printing the network configuration report.
- Check whether the access point (or wireless router) has a configured security (password). If it has a password, refer to the access point (or wireless router) administrator.
- Check the machine's IP address. Reinstall the machine driver and change the settings to connect to the machine on the network. Due to the characteristics of DHCP, the allocated IP address could change if the machine is not used for a long time or if the access point has been reset.

Register the product's MAC address when you configure the DHCP server on the access point (or wireless router). Then you can always use the IP address that is set with the MAC address. You can identify the MAC address of your machine by printing a network configuration report (see "Printing a network configuration report" on page 140).

Wireless network setup

- Check the wireless environment. You might not be able to connect to the network in the infrastructure environment where you need to type in a user's information before connecting to the access point (or wireless router).
- This machine only supports IEEE 802.11 b/g/n and Wi-Fi. Other wireless communication types (e.g., Bluetooth) are not supported.
- When using the ad hoc mode, in operating systems such as Windows Vista, you might need to set the wireless connection setting every time you use the wireless machine.
- You cannot use infrastructure mode and ad hoc mode at the same time for Samsung wireless network machines.
- The machine is within the range of the wireless network.
- The machine is located away from obstacles that could block the wireless signal.

Remove any large metal objects between the access point (or wireless router) and the machine.

Make sure the machine and wireless access point (or wireless router) are not separated by poles, walls, or support columns containing metal or concrete.
- The machine is located away from other electronic devices that may interfere with the wireless signal.

Many devices can interfere with the wireless signal, including a microwave oven and some Bluetooth devices.
- Whenever the configuration of your access point (or wireless router) changes, you must do the device's wireless network setup again.
- The maximum number of device that can be connected via Wi-Fi Direct is 3.
- If Wi-Fi Direct is ON, this machine only supports IEEE 802.11 b/g.
- If the access point is set to work with the 802.11n standard only, it may not connect to your machine.

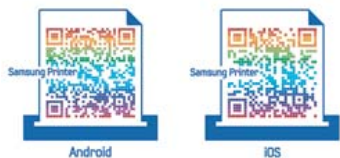
Samsung Mobile Print

What is Samsung Mobile Print?

Samsung Mobile Print is a free application that enables users to print photos, documents, and web pages directly from your smartphone or tablet. **Samsung Mobile Print** is not only compatible with your Android and iOS smart phones but also with your iPod Touch and tablet PC. It connects your mobile device to a network connected Samsung printer or to a wireless printer through a Wi-Fi access point. Installing a new driver or configuring network settings isn't necessary – just simply install the **Samsung Mobile Print** application, and it will automatically detect compatible Samsung printers. Besides printing photos, web pages, and PDFs, scanning is also supported. If you have a Samsung multifunction printer, scan any document into a JPG, PDF, or PNG format for quick and easy viewing on your mobile device.

Downloading Samsung Mobile Print

To download **Samsung Mobile Print**, go to the application store (Samsung Apps, Play Store, App Store) on your mobile device, and just search for “**Samsung Mobile Print**.” You can also visit iTunes for Apple devices on your computer.



Supported Mobile OS

- Android OS 2.1 or higher
- iOS 4.0 or higher

Supported devices

- **iOS 4.0 or higher:** iPod Touch, iPhone, iPad
- **Android 2.1 or higher:** Galaxy series, and Android mobile device

AirPrint



Only AirPrint certified machines can use the AirPrint feature. Check the box your machine came in for the AirPrint certified mark.



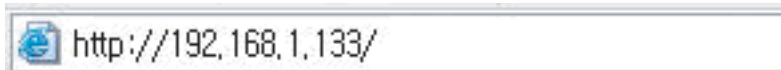
AirPrint allows you to wirelessly print directly from an iPhone, iPad, and iPod touch running the latest version of iOS.

Setting up AirPrint

Bonjour(mDNS) and IPP protocols are required on your machine to use the **AirPrint** feature. You can enable the **AirPrint** feature by one of the following methods.

- 1 Check whether the machine is connected to the network.
- 2 Start a web browser such as Internet Explorer, Safari, or Firefox and enter your machine's new IP address in the browser window.

For example,



- 3 Click **Login** in the upper right of the SyncThru™ Web Service website.

- 4 Type in the **ID** and **Password**, then click **Login**. If it's your first time logging into SyncThru™ Web Service, type in the below default ID and password. We recommend you to change the default password for security reasons.

- **ID: admin**
- **Password: sec00000**

- 5 When the **SyncThru™ Web Service** window opens, click **Settings** > **Network Settings**.

- 6 Click **AirPrint**.
You can enable the AirPrint.

Printing via AirPrint

For example, the iPad manual provides these instructions:

- 1 Open your email, photo, web page, or document you want to print.
- 2 Touch the action icon()
- 3 Select **your printer driver name** and option menu to set up.
- 4 Touch **Print** button. Print it out.

AirPrint



Cancelling print job: To cancel the printing job or view the print summary, click the print center icon () in multitasking area. You can click cancel in the print center.

Google Cloud Print™

Google Cloud Print™ is a service that allows you to print to a printer using your smart phone, tablet, or any other web-connected devices. Just register your Google account with the printer, and you are ready to use the Google Cloud Print™ service. You can print your document or email with Chrome OS, Chrome browser, or a Gmail™/ Google Docs™ application on your mobile device, so you don't need to install the printer driver on the mobile device. Refer to the Google website (<http://www.google.com/cloudprint/learn/> or <http://support.google.com/cloudprint>) for more information about Google Cloud Print™.

Registering your Google account to the printer



- Make sure the printer machine is turned on and connected to a wired or wireless network that has access to the Internet.
- You should create your Google account in the advance.

- 1 Open the Chrome browser.
- 2 Visit www.google.com.
- 3 Sign in to the Google website with your Gmail™ address.
- 4 Enter your printer's IP address in the address field and press the Enter key or click **Go**.

- 5 Click **Login** in the upper right corner of the SyncThru™ Web Service website.

- 6 If it's your first time logging into **SyncThru™ Web Service** you need to log-in as an administrator. Type in the below default **ID** and **Password**. We recommend you to change the default password for security reasons.

- **ID: admin**
- **Password: sec00000**



If the network environment is using a proxy server, you need to configure the proxy's IP and port number from **Settings > Network Settings > Google Cloud Print > Proxy Setting**. Contact your network service provider or network administrator for more information.

- 7 When the **SyncThru™ Web Service** window opens, click **Settings > Network Settings > Google Cloud Print**.

- 8 Enter your printer's name and description.

- 9 Click **Register**.
The confirmation pop-up window appears.



If you set the browser to block pop-ups, the confirmation window will not appear. Allow the site to show pop-ups.

Google Cloud Print™

10 Click **Finish printer registration**.

11 Click **Manage your printers**.

Now your printer is registered with Google Cloud Print™ service.

Google Cloud Print™-ready devices will appear in the list.

Printing with Google Cloud Print™

The printing procedure varies depending on the application or the device you are using. You can see the application list that supports Google Cloud Print™ service.



Make sure the printer is turned on and connected to a wired or wireless network that has access to the Internet.

Printing from an application on mobile device

The following steps are an example of using the Google Docs™ app from Android mobile phone.

1 Install the Cloud Print application on your mobile device.



If you do not have the application, download it from the application store such as Android Market or App Store.

2 Access the Google Docs™ application from your mobile device.

3 Tap the option  button of the document that you want to print.

4 Tap the send  button.

5 Tap the Cloud Print  button.

6 Set the printing options if you want.

7 Tap **Click here to Print**.

Printing from the Chrome browser

The following steps are an example of using the Chrome browser.

1 Run Chrome.

2 Open the document or email that you want to print.

3 Click the wrench icon  in the browser's top right corner.

4 Click **Print**. A new tab for printing appears.

Google Cloud Print™

5 Select **Print with Google Cloud Print**.

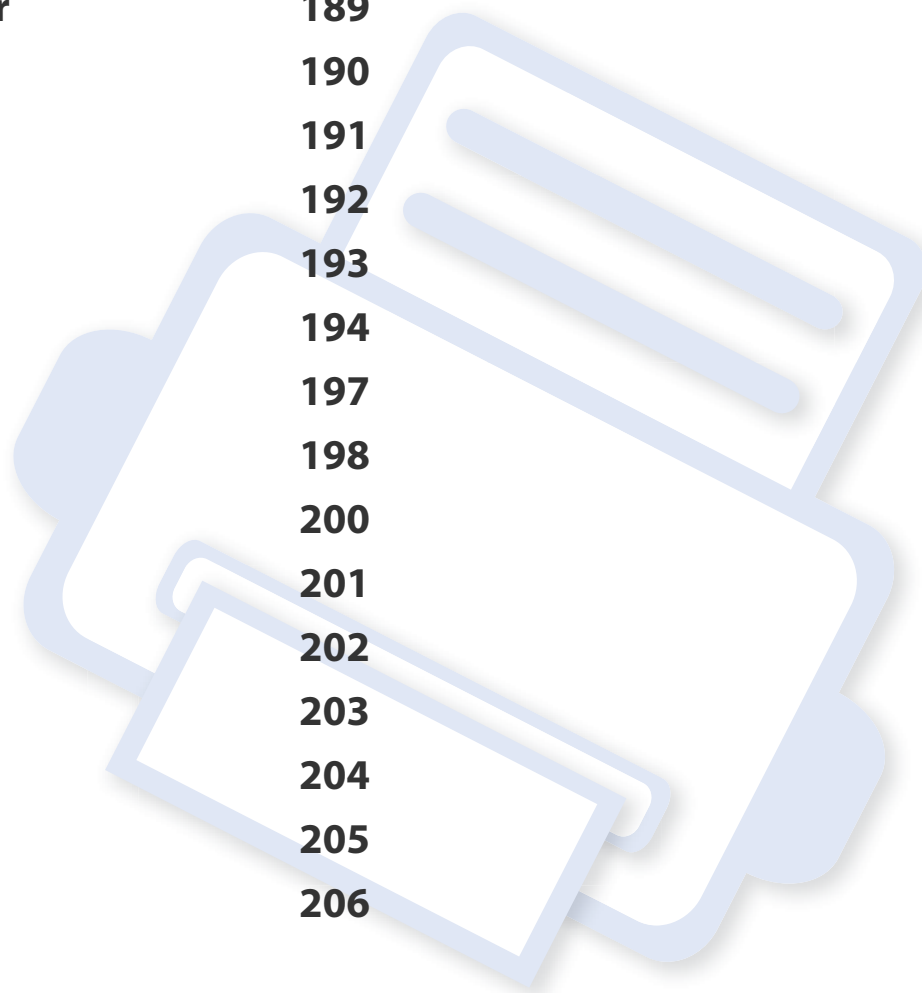
6 Click the **Print** button.



3. Useful Setting Menus

This chapter explains how to browse the current status of your machine, and the method of setting for advanced machine setup.

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Before you begin reading a chapter

This chapter explains all the features available for this series' models to help users easily understand the features.

You can check the features available for each model in the Basic Guide (see "Menu overview" on page 31).

The following are tips for using this chapter

- The control panel provides access to various menus to set up the machine or use the machine's functions. These menus can be accessed by pressing  (**Menu**) or from the touch screen.
- Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.
- For models that do not have the  (**Menu**) or the touch screen on the control panel, this feature is not applicable (see "Control panel overview" on page 23).
- Some menu names may differ from your machine depending on its options or the models.

Information



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **Information** on the control panel.
- OR

For the model with a touch screen, select  (**Information**) on the touch screen.

Item	Description
Menu Map Help List	Prints the menu map which shows the layout and current settings of this machine.
Configuration	Prints a report on the machine's overall configuration.
Network Configuration	Prints a report on the machine's current network configuration.
Demo Page	Prints the demo page to check whether your machine is printing properly or not.
Supplies Info. Supplies Information	Prints supplies' information page.

Item	Description
Usage Counter	Prints a usage page. The usage page contains the total number of pages printed.
Account	Prints a report of printout counts for each user. This is only available when Job Accounting is enabled from the SyncThru™ Web Admin Service.
Font List	Prints the font list the machine supports.
PCL Font	Prints the PCL font list.
PS Font	Prints the PS font list.
EPSON Font	Prints the EPSON font list.
KSC5843 Font^a	Prints the KSC5843 font list.
KSC5895 Font^a	Prints the KSC5895 font list.
KSSM Font^a	Prints the KSSM font list.

a. This option may not be available depending on your country.

Layout

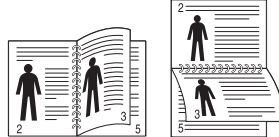
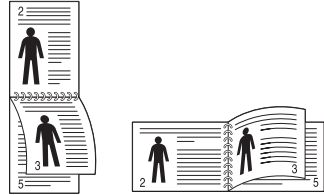


Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **Layout** on the control panel.
- For the model with a touch screen, select  (**Setup**) > **Layout** on the touch screen.

Item	Description
Orientation	Selects the direction in which information is printed on a page.
	Portrait  Landscape 

Item	Description
Margin	Common Margin: Sets the margin for each side of paper. MP Tray: Sets the paper margins in multi-purpose tray. Tray X: Sets the paper margins for the paper trays. Emulation Mar./Emulation Margin: Sets the paper margins for emulation print page.
Duplex	To print on both sides of the paper, choose the binding edge. Off: Disables this option. Long Edge  Short Edge 

Paper



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **Paper** on the control panel.
- For the model with a touch screen, select  (**Setup**) > **Paper** on the touch screen.

Item	Description
Copies	Selects the number of copies.
MP Tray/ [Tray <x>]	• Paper Size: Selects the default paper size. • Paper Type: Selects the paper type currently loaded in the tray.
Paper Source	Sets the default paper tray to use.  Auto: You can set the machine to automatically change to the tray with the same sized paper when the tray in use is empty.

Item	Description
Tray Confirmation	Activates the tray confirmation message. If you open and close a tray, a window asking you whether to set the paper size and type for the tray just opened appears.

Graphic



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **Graphic** on the control panel.
- For the model with a touch screen, select  (**Setup**) > **Graphic** on the touch screen.

Item	Description
Resolution	Specifies the number of dots printed per inch (dpi). The higher the setting, the sharper printed characters and graphics.
Clear Text	Prints text darker than on a normal document.
Auto CR	Allows you to append the required carriage return to each line feed, which is useful for Unix or DOS users.
Edge Enhance	Allows user to enhance sharpness of text and graphics for improving readability.

System Setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **System Setup** on the control panel.
- For the model with a touch screen, select  (**Setup**) > **System/ Tray Behaviour** on the touch screen.

Item	Description
Date & Time^a	Sets the date and time.
Clock Mode^a	Selects the format for displaying time between 12 hours and 24 hours.
Language	Sets the language of the text that appears on the control panel display.
Default Paper Default Paper Size	You can set the default paper size to use.
Power Save	Sets how long the machine waits before going to power save mode. When the machine does not receive data for an extended period of time, power consumption is automatically lowered.

Item	Description
Wakeup Event	When this option is On, you can wake up the machine from the power saving mode with the following actions: - Loading paper in a tray. - Opening or closing the front cover. - Pulling a tray out or pushing a tray in.
Job Timeout	When there is no input for a certain period of time, the machine cancels the current job. You can set the amount of time the machine will wait before canceling the job.
Altitude Adj. Altitude Adjustment	Optimize print quality according to the machine's altitude ("Altitude adjustment" on page 209).
Auto Continue	Determine whether or not the machine continues printing when it detects the paper does not match the paper settings. 0 Sec: This option allows you to continue printing when the paper size you have set is mismatched with the paper in the tray. 30 Sec: If a paper mismatch occurs, an error message will display. The machine waits for about 30 second, then automatically clear the message and continue printing. Off: If a paper mismatch occurs, the machine waits until you insert the correct paper.

System Setup

Item	Description
• Auto Tray Swi. • Auto Tray Switch	Determine whether or not the machine continues printing when it detects the paper does not match. For example, if both tray 1 and tray 2 are filled with the same size paper, the machine automatically prints from tray 2 after the tray 1 runs out of paper.  This option does not appear if you selected Auto for Paper Source from printer driver.
• Paper Substit. • Paper Substitution	Automatically substitutes the printer driver's paper size to prevent the paper mismatch between Letter and A4. For example, if you have A4 paper in the tray but you set the paper size to Letter in the printer driver, the machine prints on A4 paper and vice versa.
• Tray Protect. • Tray Protection	Decides to use or not use the Auto Tray Swi. /Auto Tray Switch feature for a certain tray. If you set tray 1 to on, for example, then tray 1 is excluded during tray switching.
SkipBlankPage	The printer detects the printing data from computer whether a page is empty or not. You can set to print or skip the blank page.

Item	Description
Maintenance	• CLR Empty Msg.: This option appears only when toner cartridge is empty. • Supplies Life: Allows you to check how many pages are printed and how much toner is left in the cartridge. • Image Mgr.: Allows you to adjust the density. • TonerLow Alert: If toner in the cartridge has run out, a message informing the user to change the toner cartridge appears. You can set the option for this message to appear or not. • ImgU. Low Alert^b: Allows you to set the alarm for when the imaging unit is low.  M3325/M3825/M4025 series only. • RAM Disk: Enables/disables RAM disk to manage jobs.
Toner Save	Activating this mode extends the life of your toner cartridge and reduces your cost per page beyond what one would experience in the normal mode, but it reduces print quality.

System Setup

Item	Description
Eco Settings	Allows you to save print resources and enables eco-friendly printing (see "Eco printing" on page 53). • Default Mode: Select whether to turn the Eco mode on or off.  On Force: Sets the Eco mode on. If a user wants to turn the Eco mode off, the user needs to enter the password. • Select Temp.: Selects the eco template set from the SyncThru™ Web Service.
Auto Power Off	Turns power off automatically when the machine has been in power save mode for the length of time set in Auto Power Off > On > Timeout.  • To turn the machine on again, press the  (Power) button on the control panel (make sure the main power switch is on). • If you run the printer driver or Samsung Easy Printer Manager, the time automatically extends. • While the machine is connected to the network or working on a print job, Auto Power Off feature doesn't work.

Item	Description
Held Job Timeout	You can set the time to hold the temporarily stopped job.
File Policy	If the memory already has the same name when you entered a new file name, you can rename or overwrite it.
Job Timeout	Sets the length of time the printer waits before printing the last page of a print job that does not end with a command to print the page.

a. M382xDW only

b. M3325/M3825/M4025 series only.

Emulation



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press (**Menu**) > **Emulation** on the control panel.
- For the model with a touch screen, select (**Setup**) > **Emulation** on the touch screen.

Item	Description
Emulation Type	The machine language defines how the computer communicates with the machine.
Setup	Sets the detailed settings for the selected emulation type.

Network



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press  (**Menu**) > **Network** on the control panel.
- For the model with a touch screen, select  (**Setup**) > **Network** on the touch screen.



You can also use this feature from the SyncThru™ Web Service. Open the Web browser from your networked computer and type the IP address of your machine. When SyncThru™ Web Service opens, click **Settings** > **Network Settings** (see "Using SyncThru™ Web Service" on page 236).

Option	Description
TCP/IP (IPv4)	Selects the appropriate protocol and configure parameters to use the network environment (see "Setting IP address" on page 140).  There are lots of parameters to be set. If you are not sure, leave as is, or consult the network administrator.
TCP/IP (IPv6)	Selects this option to use the network environment through IPv6 (see "IPv6 configuration" on page 152).
Ethernet	Configure the ethernet port and network transmission speed.  Turn the power off and on after you change this option.
802.1x	You can select the user authentication for network communication. For detailed information consult the network administrator.
Wi-Fi	Select this option to use the wireless network (see "Wireless network setup" on page 156).

Network

Option	Description
- Protocol Mgr. Protocol Management	You can activate or deactivate the following protocols. HTTP: You can sets whether to use SyncThru™ Web Service or not. WINS: You can configure the WINS server. WINS(Windows Internet Name Service) is used in the Windows operating system. SNMP V1/V2: You have to enable this option to use SNMP V1/V2 protocol. Administrator's can use SNMP to monitor and manage machines on the network. SNTP: You can set SNTP (Simple Network Time Protocol) settings. SNTP synchronizes the clocks of the computer systems through the Internet (NTP) so there would not be a time difference when exchanging data. UPnP(SSDP): You have to enable this option to use UPnP(SSDP) protocol. MDNS: You have to enable this option to use MDNS (Multicast Domain Name System) protocol. SetIP: You have to enable this option to use SetIP protocol. SLP: You can configure SLP (Service Location Protocol) settings. This protocol allows host applications to find services in a local area network without prior configuration.  Turn the power off and on after you change this option.

Option	Description
- Network Conf. Network Configuration	This list shows information on your machine's network connection and configuration (see "Printing a network configuration report" on page 140).
Clear Setting	Reverts the network settings to the default values.  Turn the power off and on.

Job Management



- This feature is not supported for M382xD.
- Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- Press (Menu) > **Job Management** on the control panel.
- For the model with a touch screen, select (Setup) > **System** on the touch screen.

Item	Description
Active Job	Shows the print job lists that are waiting to be printed.
Secured Job	Shows the print job lists that are secured on the disk.
Stored Job	Shows the print job lists that are stored on the disk.
• Filing Policy • File Policy	If the memory already has the same name when you entered a new file name, you can rename or overwrite it.

Admin setup



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- For the model with a touch screen, select  **(Setup) > Admin Setup** on the touch screen.

Item	Description
User Access Control	You can control user access to a machine. You can assign different levels of permissions to use the machine to each user.  You can also use this feature from the SyncThru™ Web Service. Open the Web browser from your networked computer and type the IP address of your machine. When SyncThru™ Web Service opens, click the Security tab > User Access Control.

Item	Description
Stamp	You can apply the stamp feature. Item: You can select the items to print on the printout such as time, date, and etc. Opacity: You can select the stamp transparency. Position: Sets the stamp position.
Secure Release	You can set secure release settings. Max Job Count per User: You can set the number of job allowed for each user. Smart Release: Release Mode:
Change Admin. Password	Changes the machine's password for accessing the Admin Setup.
Firmware Upgrade	To upgrade the latest firmware, turn this option "On" and then download the firmware file.
Image Overwrite	You can set the machine to overwrite data stored in the memory. The machine overwrites the data with different patterns eliminating the possibilities of recovery.
Application	You can install or uninstall applications. Application Management: You can uninstall or enable/disable installed applications. Install New Application: You can install a new application either from a USB or by manually entering a URL.



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- For the model with a touch screen, select  (**Eco**) on the touch screen.

Item	Description
Eco-On/Eco-Off	View current eco mode and change on/off option.
Settings	Sets eco-related settings and change default settings. Default Mode: Select this to turn on or off the default mode. Feature Configuration: Select the Default mode or Custom mode. If you select the Custom mode, you can set the settings to apply for the Eco mode.

Direct USB



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- For the model with a touch screen, select  (**Direct USB**) > on the touch screen.

Item	Description
Print From	Select a file to print.
File Manage	Select a file to delete. You can format the USB device.
Show Space	Shows the remaining space.

Job Status



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- For the model with a touch screen, select  (**Job Status**) > on the touch screen.

Item	Description
Current Job	Displays the list of jobs in progress and pending.
Secure Job	Displays the list of jobs that are secured on the disk
Stored Job	Displays the list of jobs that are stored on the disk.
Completed Job	Displays the list of completed jobs.

Counter



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:



- For the model with a touch screen, select **(Counter)** > on the touch screen.

Item	Description
Total Printed	Displays the number of pages printed.



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:



- For the model with a touch screen, select **(Help)** > on the touch screen.

Item	Description
Basic Taskflow	Displays basic method to start your job.
Troubleshooting	Displays troubleshooting information.

Secure Release



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Menu overview" on page 31).

To change the menu options:

- For the model with a touch screen, select  (**Secure Release**) > on the touch screen.

Item	Description
Options	• Card: • ID/PW: • PIN:
Stored Job	• ID/PW: • PIN:



4. Special Features

This chapter explains special printing features.

- **Altitude adjustment** 209
- **Entering various characters** 210
- **Printing features** 213
- **Using optional device features** 229

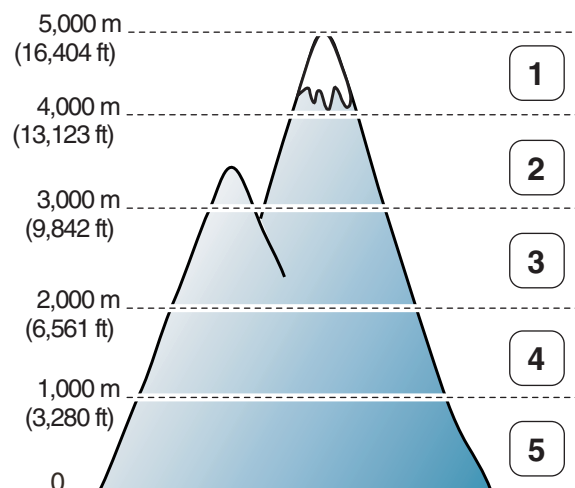


- The procedures in this chapter are mainly based on Windows 7.
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

Altitude adjustment

Print quality is affected by atmospheric pressure, which is determined by the height of the machine above sea level. The following information will guide you on how to set your machine for the best print quality.

Before you set the altitude value, determine the altitude where you are.



- 1 High 4
- 2 High 3
- 3 High 2
- 4 High 1
- 5 Normal

You can set the altitude value from **Device Settings** in Samsung Easy Printer Manager program.

- For Windows and Mac users, you set from **Samsung Easy Printer Manager**
>  **(Switch to advanced mode)** > **Device Settings**, see "Device Settings" on page 242.



- If your machine is connected to the network, you can set the altitude via SyncThru™ Web Service (see "Using SyncThru™ Web Service" on page 236).
- You can also set the altitude in **System Setup** option on the machine's display (see "Machine's basic settings" on page 37).

Entering various characters



M382xND/M382xDW/M402xND only.

As you perform various tasks, you may need to enter names and numbers.

Entering alphanumeric characters

Press the button until the correct letter appears on the display. For example, to enter the letter O, press 6, labeled with MNO. Each time you press 6, the display shows a different letter, M, N, O, m, n, o and finally 6. To find the letter that you want to enter, see "Keypad letters and numbers" on page 210.



- You can enter a space by pressing 1 twice.
- To delete the last digit or character, press the arrow button.

Keypad letters and numbers



- Special character sets may differ from your machine depending on its options or the models.
- Some of the follow key values may not appear depending on the job you are doing.

Key	Assigned numbers, letters, or characters
1	@ / . ' 1
2	A B C a b c 2
3	D E F d e f 3
4	G H I g h i 4
5	J K L j k l 5
6	M N O m n o 6
7	P Q R S p q r s 7
8	T U V t u v 8
9	W X Y Z w x y z 9
0	& + - , 0
*	* % ^ _ ~ ! # \$ () [] (These symbols are available when you type for network authentication.)
#	# = ? " : { } < > ; (These symbols are available when you type for network authentication.)

Entering various characters

Understanding the pop-up keyboard



- This feature is only available for models with a touch screen.
- Some of the follow key values may not appear depending on the job you are doing.

You can enter alphabet characters, numbers, diacritical marks, or special symbols using the keyboard on the home screen. This keyboard is specially arranged like a normal keyboard for better usability to the user.

Entering various characters

Touch the input area where you need to enter alphabet characters, numbers, diacritical marks, or special symbols and the keyboard pops up on the screen.



: Switches from the alphanumeric keyboard to the numbers or special symbols keyboard.



: Switches diacritical characters.

-  : Returns to the upper menu.
-  : Deletes all characters in the input area.
-  : Deletes character in the input area.
-  : Moves the cursor between characters in the input area.
-  : Saves and closes input result.
-  : Enters a blank between characters. Also, you can insert a pause.
-  : Toggles between lowercase keys and uppercase keys.

Printing features



- For basic printing features, refer to the Basic Guide (see "Basic printing" on page 50).
- This feature may not be available depending on model or optional goods (see "Features by models" on page 8).

Changing the default print settings

- 1 Click the Windows **Start** menu.
- 2 Select **Control Panel > Devices and Printers**.
- 3 Right-click on your machine.
- 4 Select **Printing preferences**.



If **Printing preferences** has a ►, you can select other printer drivers connected to the selected printer.

- 5 Change the settings on each tab.
- 6 Click **OK**.



If you want to change the settings for each print job, change it in **Printing Preferences**.

Setting your machine as a default machine

- 1 Click the Windows **Start** menu.
- 2 Select **Control Panel > Devices and Printers**.
- 3 Select your machine.
- 4 Right-click your machine and select **Set as Default Printer**.



If **Printing preferences** has a ►, you can select other printer drivers connected to the selected printer.

Using advanced print features



- **XPS printer driver**: used to print XPS file format.
 - See "Features by models" on page 8.

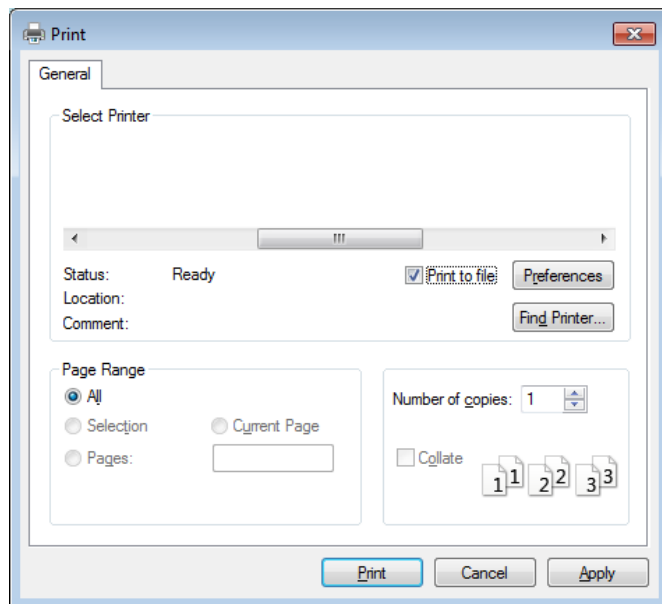
Printing features

- The XPS printer driver can be installed only on Windows Vista OS or higher.
- For models that provide XPS driver from the Samsung website, <http://www.samsung.com> > find your product > Support or downloads.

Printing to a file (PRN)

You will sometimes need to save the print data as a file.

- 1 Check the **Print to file** box in the **Print** window.



- 2 Click **Print**.

- 3 Type in the destination path and the file name, and then click **OK**.
For example, **c:\Temp\file name**.



If you type in only the file name, the file is automatically saved in **My Documents**, **Documents and Settings**, or **Users**. The saved folder may differ, depending on your operating system or the application you are using.

Printing features

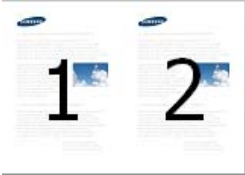
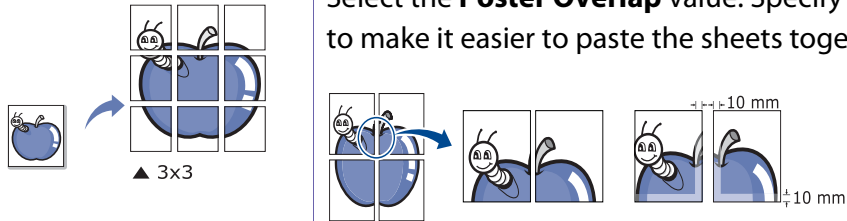
Understanding special printer features

You can use advanced printing features when using your machine.

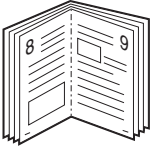
To take advantage of the printer features provided by your printer driver, click **Properties** or **Preferences** in the application's **Print** window to change the print settings. The machine name, that appears in the printer properties window may differ depending on the machine in use.



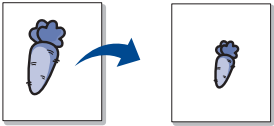
- Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.
- Select the **Help** menu or press **F1** on your keyboard and click on any option you want to know about (see "Using help" on page 52).

Item	Description
Multiple Pages per Side 	Selects the number of pages to print on a single sheet of paper. To print more than one page per sheet, the pages will be reduced in size and arranged in the order you specify. You can print up to 16 pages on one sheet.
Poster Printing 	Prints a single-page document onto 4 (Poster 2x2), 9 (Poster 3x3), or 16 (Poster 4x4) sheets of paper, for the purpose of pasting the sheets together to form one poster-size document. Select the Poster Overlap value. Specify Poster Overlap in millimeters or inches by selecting the radio button on the upper right of Basic tab to make it easier to paste the sheets together.

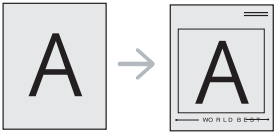
Printing features

Item	Description
Booklet Printing^a 	Prints your document on both sides of a sheet of paper and arranges the pages so that the paper can be folded in half after printing to produce a booklet.  • If you want to make a booklet, you need to print on Letter, Legal, A4, US Folio, or Oficio sized print media. • The Booklet Printing option is not available for all paper sizes. Select the available paper Size option under the Paper tab to see what paper sizes are available. • If you select an unavailable paper size, this option can be automatically canceled. Select only available paper (paper without  or .
Double-sided Printing	Print on both sides of a sheet of paper (duplex). Before printing, decide how you want your document oriented.  You can use this feature with Letter, Legal, A4, US Folio or Oficio sized paper

Printing features

Item	Description
Double-sided Printing	• Printer Default: If you select this option, this feature is determined by the settings you have selected on the control panel of the machine. • None: Disables this feature. • Long Edge: This option is the conventional layout used in bookbinding.  • Short Edge: This option is the conventional layout used in calendars.  • Reverse Double-Sided Printing: Check this option to reverse the print order when duplex printing.
Paper Options	Changes the size of a document to appear larger or smaller on the printed page by entering in a percentage by which to enlarge or decrease the document. 
Watermark	The watermark option allows you to print text over an existing document. For example, you use it when you want to have large gray letters reading "DRAFT" or "CONFIDENTIAL" printed diagonally across the first page or all pages of a document. 

Printing features

Item	Description
Watermark (Creating a watermark)	a To change the print settings from your software application, access Printing Preferences. b Click the Advanced tab, select Edit from the Watermark drop-down list. The Edit Watermarks window appears. c Enter a text message in the Watermark Message box. You can enter up to 256 characters. The message displays in the preview window.
Watermark (Editing a watermark)	a To change the print settings from your software application, access Printing Preferences. b Click the Advanced tab, select Edit from the Watermark drop-down list. The Edit Watermarks window appears. c Select the watermark you want to edit from the Current Watermarks list and change the watermark message and options. d Click Update to save the changes. e Click OK or Print until you exit the Print window.
Watermark (Deleting a watermark)	a To change the print settings from your software application, access Printing Preferences. b Click the Advanced tab, select Edit from the Watermark drop-down list. The Edit Watermarks window appears. c Select the watermark you want to delete from the Current Watermarks list and click Delete. d Click OK or Print until you exit the Print window.
Overlay ^a 	This option is available only when you use the PCL/SPL printer driver (see "Software" on page 9). An overlay is text and/or images stored in the computer hard disk drive (HDD) as a special file format that can be printed on any document. Overlays are often used to take the place of letterhead paper. Rather than using preprinted letterhead, you can create an overlay containing exactly the same information that is currently on your letterhead. To print a letter with your company's letterhead, you do not need to load preprinted letterhead paper in the machine: just print the letterhead overlay on your document. To use a page overlay, you must create a new page overlay containing your logo or image.  • The overlay document size must be the same as the document you print with the overlay. Do not create an overlay with a watermark. • The resolution of the overlay document must be the same as that of the document you will print with the overlay.

Printing features

Item	Description
Overlay^a (Creating a new page overlay)	a To save the document as an overlay, access Printing Preferences. b Click the Advanced tab, and select Edit from the Text drop-down list. Edit Overlay window appears. c In the Edit Overlay window, click Create. d In the Save As window, type a name up to eight characters in the File name box. Select the destination path, if necessary (The default is C:\Formover). e Click Save. The name appears on the Overlay List. f Click OK or Print until you exit the Print window. The file is not printed. Instead, it is stored on your computer hard disk drive.
Overlay^a (Using a page overlay)	a Click the Advanced tab. b Select the desired overlay from the Text drop-down list. c If the overlay file you want does not appear in the Text drop-down list, select Edit... from the list and click Load. Select the overlay file you want to use. If you have stored the overlay file you want to use in an external source, you can also load the file when you access the Open window. After you select the file, click Open. The file appears in the Overlay List box and is available for printing. Select the overlay from the Overlay List box. d If necessary, check Confirm Page Overlay When Printing box. If this box is checked, a message window appears each time you submit a document for printing, asking you to confirm printing an overlay on your document. If this box is not checked and an overlay has been selected, the overlay automatically prints with your document. e Click OK or Print until you exit the Print window.
Overlay^a (Deleting a page overlay)	a In the Printing Preferences window, click the Advanced tab. b Select Edit in the Text drop down list. c Select the overlay you want to delete from the Overlay List box. d Click Delete. e When a confirming message window appears, click Yes. f Click OK or Print until you exit the Print window. You can delete page overlays that you no longer use.

Printing features

Item	Description
Print Mode ^b	 - This feature is available only if you have installed the optional memory or mass storage device (HDD) (see "Variety feature" on page 10). - Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine. - To enable this feature, check Storage Options (see "Setting Device Options" on page 76). - Without installing the optional memory or mass storage device (HDD) in the machine, the RAM disk feature provides only 3 options: Normal, Proof, and Confidential.
	Print Mode: The default Print Mode is Normal, which is for printing without saving the printing file in the memory. Normal: This mode prints without storing your document in the optional memory. Proof: This mode is useful when you print more than one copy. You can print one copy first to check, then print the rest of the copies later. Confidential: This mode is used for printing confidential documents. You need to enter a password to print. Store: Select this setting to save a document in the optional memory or mass storage device (HDD) without printing. Store and Print: This mode is used when printing and storing document at the same time. Spool: This option can be useful when handling large amounts of data. If you select this setting, the printer spools the document into the optional memory or mass storage device (HDD) and then prints it from the optional memory or mass storage device (HDD) queue, decreasing the computer's work load. Print Schedule: Select this setting to print the document at a specified time.  Job Name: This option is used when you need to find a stored file using the control panel. User ID: This option is used when you need to find a stored file using the control panel. The user name automatically appears as the user name that you use to log on Windows. Enter Password: If the Property of the document you selected is secured, you have to enter the password for the document. This option is used for loading a stored file using the control panel. Confirm Password: Re-enter the password to confirm it.

Printing features

Item	Description
Job Accounting ^b	This option allows you to print with the given permission. • User permission: If you check this option, only users with user permission can start a print job. • Group permission: If you check this option, only groups with group permission can start a print job.  • Select the Help menu or press F1 on your keyboard and click on any option you want to know about (see "Using help" on page 52). • Administrators can enable job accounting and configure permissions in the control panel or SyncThru™ Web Admin Service.

a. This option is not available when you use XPS driver.

b. Not supported for M382xD.

Printing features

Using Direct Printing Utility



- This feature is not supported for M382xD.
- Direct Printing Utility may not be available depending on model or optional goods (see "Software" on page 9).
- Available for Windows OS users only.

What is Direct Printing Utility?

Direct Printing Utility is a program that sends the PDF files directly to your machine to print without having to opening the file.

To install this program:

Download the software from the Samsung website then unpack and install it: (<http://www.samsung.com> > find your product > Support or Downloads).



- You cannot print PDF files that are restricted. Deactivate the printing restriction feature and retry printing.
- You cannot print PDF files that are restricted by a password. Deactivate the password feature, and retry printing.

- Whether or not a PDF file can be printed using the Direct Printing Utility program depends on how the PDF file was created.
- The Direct Printing Utility program supports PDF version 1.7 and below. For higher versions, you must open the file to print it.

Printing

There are several ways you can print using the Direct Printing Utility.

- 1 From the **Start** menu select **Programs** or **All Programs** .
 - For Windows 8, from **Charms**, select **Search** > **Apps**.
- 2 Find **Samsung Printers** > **Direct Printing Utility**.
- 3 Select your machine from the **Select Printer** drop-down list and click **Browse**.
- 4 Select the file you wish to print and click **Open**.
The file is added in the **Select Files** section.
- 5 Customize the machine settings for your needs.
- 6 Click **Print**. The selected PDF file is sent to the machine.

Printing features

Using the right-click menu

- 1 Right-click on the PDF file to print and select **Direct Printing**.
The Direct Printing Utility window appears with the PDF file is added.
- 2 Select the machine to use.
- 3 Customize the machine settings.
- 4 Click **Print**. The selected PDF file is sent to the machine.

Mac printing



Some features may not be available depending on models or options. It means that the features are not supported.

Printing a document

When you print with a Mac, you need to check the printer driver settings in each application you use. Follow the steps below to print from a Mac:

- 1 Open the document to print.
- 2 Open the **File** menu and click **Page Setup** (**Document Setup** in some applications).
- 3 Choose your paper size, orientation, scaling, other options, and make sure that your machine is selected. Click **OK**.
- 4 Open the **File** menu and click **Print**.
- 5 Choose the number of copies and indicate which pages to print.
- 6 Click **Print**.

Printing features

Changing printer settings

You can use advanced printing features when using your machine.

Open an application and select **Print** from the **File** menu. The machine name, which appears in the printer properties window, may differ depending on the machine in use. Except for the name, the composition of the printer properties window is similar to the following.

Printing multiple pages on one sheet

You can print more than one page on a single sheet of paper. This feature provides a cost-effective way to print draft copies.

- 1 Open an application, and select **Print** from the **File** menu.
- 2 Select **Layout** from the drop-down list under **Orientation**. In the **Pages per Sheet** drop-down list, select the number of pages you want to print on one sheet of paper.
- 3 Select the other options to use.
- 4 Click **Print**.

The machine prints the selected number of pages to print on one sheet of paper.

Printing on both sides of the paper



Some features may not be available depending on models or options. It means that the features are not supported (see "Variety feature" on page 10).

Before printing in the duplex mode, decide on which edge you will be binding your finished document. The binding options are, as follows:

- **Long-Edge Binding:** This option is the conventional layout used in book binding.
- **Short-Edge Binding:** This option is the type often used with calendars.

- 1 From your Mac application, select **Print** from the **File** menu.
- 2 Select **Layout** from the drop-down list under **Orientation**.
- 3 Select a binding orientation from the **Two-Sided** option.
- 4 Select the other options to use.
- 5 Click **Print** and the machine prints on both sides of the paper.

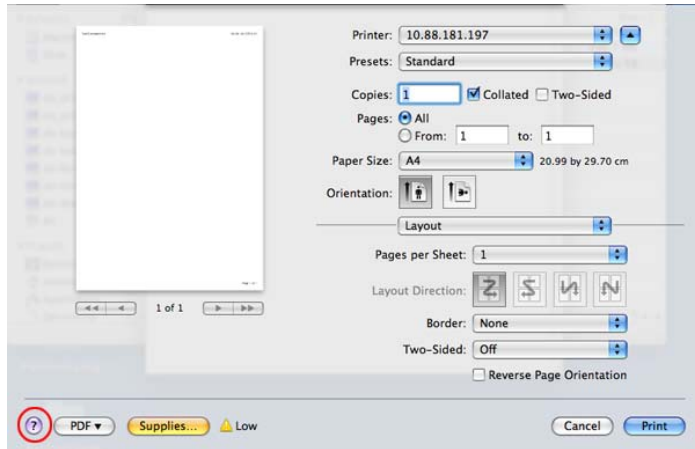


If you print more than 2 copies, the first copy and the second copy might print on the same sheet of paper. Avoid printing on both sides of paper when you are printing more than 1 copy.

Printing features

Using help

Click the question mark on the bottom-left corner of the window and click on the topic you want to know about. A pop-up window appears with information about that option's feature, which is provided from the driver.



Linux printing



Some features may not be available depending on models or options. It means that the features are not supported.

Printing from applications

There are a lot of Linux applications that allow you to print using Common UNIX Printing System (CUPS). You can print on your machine from any such application.

- 1 Open the document to print.
- 2 Open the **File** menu and click **Page Setup** (**Print Setup** for some applications).
- 3 Choose your paper size, orientation, and make sure that your machine is selected. Click **Apply**.
- 4 Open the **File** menu and click **Print**.
- 5 Select your machine to print.
- 6 Choose the number of copies and indicate which pages to print.
- 7 Change other printing options in each tab, if necessary.
- 8 Click **Print**.



Automatic duplex printing may not be available depending on models. You can alternatively use the lpr printing system or other applications for odd-even printing (see "Features by models" on page 8).

Printing features

Printing files

You can print text, image, pdf files on your machine using the standard CUPS directly from the command line interface. The CUPS lp or lpr utility allows you to do that. You can print these files by using below command format.

"lp -d <printer name> -o <option> <file name>"

Please refer to lp or lpr man page on your system for more details.

Configuring Printer Properties

Using the **Printer Properties** window provided by the **Printers configuration**, you can change the various properties for your machine as a printer.

- 1 Open the **Unified Driver Configurator**.
If necessary, switch to **Printers configuration**.
- 2 Select your machine on the available printers list and click **Properties**.

- 3 The **Printer Properties** window appears.

The following five tabs display at the top of the window:

- **General:** Allows you to change the printer location and name. The name entered in this tab displays on the printer list in **Printers configuration**.
- **Connection:** Allows you to view or select another port. If you change the machine port from USB to parallel or vice versa while in use, you must re-configure the machine port in this tab.
- **Driver:** Allows you to view or select another machine driver. By clicking **Options**, you can set the default device options.
- **Jobs:** Shows the list of print jobs. Click **Cancel job** to cancel the selected job and select the **Show completed jobs** check box to see previous jobs on the job list.
- **Classes:** Shows the class that your machine is in. Click **Add to Class** to add your machine to a specific class or click **Remove from Class** to remove the machine from the selected class.

- 4 Click **OK** to apply the changes and close the **Printer Properties** window.

Printing features

Unix printing



Some features may not be available depending on models or options. It means that the features are not supported (see "Features by models" on page 8).

Proceeding the print job

After installing the printer, choose any of the image, text, or PS files to print.

- 1 Execute "**printui <file_name_to_print>**" command.
For example, if you are printing "**document1**"
printui document1
This will open the UNIX Printer Driver **Print Job Manager** in which the user can select various print options.
- 2 Select a printer that has been already added.
- 3 Select the printing options from the window such as **Page Selection**.
- 4 Select how many copies are needed in **Number of Copies**.



To take advantage of the printer features provided by your printer driver, press **Properties**.

- 5 Press **OK** to start the print job.

Changing the machine settings

The UNIX printer driver **Print Job Manager** in which the user can select various print options in printer **Properties**.

The following hot keys may also be used: "H" for **Help**, "O" for **OK**, "A" for **Apply**, and "C" for **Cancel**.

General tab

- **Paper Size:** Set the paper size as A4, Letter, or other paper sizes, according to your requirements.
- **Paper Type:** Choose the type of the paper. Options available in the list box are **Printer Default**, **Plain**, and **Thick**.
- **Paper Source:** Select from which tray the paper is used. By default, it is **Auto Selection**.
- **Orientation:** Select the direction in which information is printed on a page.
- **Duplex:** Print on both sides of paper to save paper.

Printing features



Automatic duplex printing may not be available depending on models. You can alternatively use the lpr printing system or other applications for odd-even printing.

- **Multiple pages:** Print several pages on one side of the paper.
- **Page Border:** Choose any of the border styles (e.g., **Single-line hairline**, **Double-line hairline**)

Image tab

In this tab, you can change the brightness, resolution, or image position of your document.

Text tab

Set the character margin, line space, or the columns of the actual print output.

Margins tab

- **Use Margins:** Set the margins for the document. By default, margins are not enabled. The user can change the margin settings by changing the values in the respective fields. Set by default, these values depend on the page size selected.
- **Unit:** Change the units to points, inches, or centimeters.

Printer-Specific Settings tab

Select various options in the **JCL** and **General** frames to customize various settings. These options are specific to the printer and depend on the PPD file.

Using optional device features



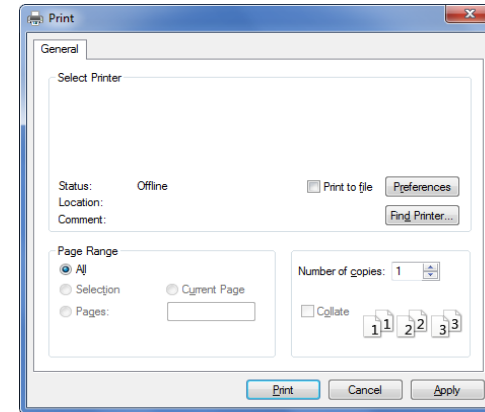
- This feature is not supported for M382xD.
- Some features may not be available depending on model or optional goods (see "Variety feature" on page 10).

From the printer driver

If you install the optional device, you can use advanced printing features, such as proofing a job and printing a private job in the **Print** window. Check the mass storage (HDD) or RAM disk option in **Device Options**, then you can select the various features from **Print Mode** (see "Setting Device Options" on page 76).

- 1 Open the document you want to print.
- 2 Select **Print** from the **File** menu. The **Print** window appears.

- 3 Select your printer driver from the **Select Printer** list.



- 4 Click **Properties** or **Preferences**.
- 5 Click the each tab then select **Print Mode**.
- 6 Select the option you want (see "Understanding special printer features" on page 215).

From the control panel

If your machine has optional mass storage device (HDD) or RAM disk, you can use these features from the  (**Menu**) button > **System Setup** > **Job Management**.

OR