

Installing driver over the network

Command- line	Definition	Description
/a"<dest_path>" or /A"<dest_path>"	Specifies destination path for installation.  The destination path should be a fully qualified path.	Since machine drivers should be installed on the OS specific location, this command applies to only application software.
/n"<Printer name>" or /N"<Printer name>"	Specifies printer name. Printer instance shall be created as specified printer name.	With this parameter, you can add printer instances as your wishes.
/nd or /ND	Commands not to set the installed driver as a default machine driver.	It indicates installed machine driver will not be the default machine driver on your system if there are one or more printer drivers installed. If there is no installed machine driver on your system, then this option won't be applied because Windows OS will set installed printer driver as a default machine driver.

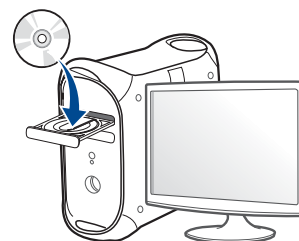
Command- line	Definition	Description
/x or /X	Uses existing machine driver files to create printer instance if it is already installed.	This command provides a way to install a printer instance that uses installed printer driver files without installing an additional driver.
/up"<printer name>" or /UP"<printer name>"	Removes only specified printer instance and not the driver files.	This command provides a way to remove only specified printer instance from your system without effecting other printer drivers. It will not remove printer driver files from your system.
/d or /D	Uninstalls all device drivers and applications from your system.	This command will remove all installed device drivers and application software from your system.
/v"<share name>" or /V"<share name>"	Shares installed machine and add other available platform drivers for Point & Print.	It will install all supported Windows OS platform's machine drivers to system and share it with specified <share name> for point and print.

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Command- line	Definition	Description
/o or /O	Opens Printers and Faxes folder after installation.	This command will open Printers and Faxes folder after the silent installation.
/h, /H or /?	Shows Command-line Usage.	

Mac

- 1 Make sure that the machine is connected to your network and powered on.
- 2 Insert the supplied software CD into your CD-ROM drive.



- 3 Double-click the CD-ROM icon that appears on your Mac desktop.
 - For Mac OS X 10.8, double-click the CD-ROM that appears on **Finder**.
- 4 Double-click the **MAC_Installer** folder > **Installer OS X** icon.
- 5 Click **Continue**.
- 6 Read the license agreement and click **Continue**.
- 7 Click **Agree** to agree to the license agreement.
- 8 Click **Install**. All components necessary for machine operations will be installed.

If you click **Customize**, you can choose individual components to install.

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- 9 Enter the password and click **OK**.
- 10 Select **Network Connected Printer(Wired or Wireless)** on the **Printer Connection Type** and click **Continue**.
- 11 Click **Add Printer** button to select your printer and add it to your printer list.
- 12 Click **IP** and select **HP Jetdirect - Socket** in **Protocol**.
- 13 Enter the machine's IP address in the **Address** input field.
- 14 Enter the queue name in the **Queue** input field. If you cannot determine the queue name for your machine server, try using the default queue first.
- 15 If Auto Select does not work properly, choose **Select Printer Software** and your machine name in **Print Using**.
- 16 Click **Add**.
- 17 After the installation is finished, click **Close**.

Linux

You need to download Linux software packages from the Samsung website to install the printer software (<http://www.samsung.com>> find your product > Support or Downloads).

- 1 Make sure that the machine is connected to your network and powered on. Also, your machine's IP address should have been set.
- 2 Copy the Unified Linux Driver package to your system.
- 3 Open Terminal program and go to the folder that you copied the package to.
- 4 Extract the package.
- 5 Move to **uld** folder.
- 6 Execute **"./install.sh"** command (If you're not logged in as root, execute the command with **"sudo"** as **"sudo ./install.sh"**)
- 7 Proceed with the installation.
- 8 When the installation is finished, launch **Printing** utility(Go to **System > Administration > Printing** menu or execute **"system-config-printer"** command in Terminal program).
- 9 Click the **Add** button.

Installing driver over the network

10 Select **AppSocket/HP JetDirect** and enter your machine's IP address.

11 Click the **Forward** button and add it to your system.

UNIX



- Make sure your machine supports the UNIX operating system before installing the UNIX printer driver (see "Operating System" on page 7).
- The commands are marked with "", when typing the commands, do not type "".
- Some features and optional goods may not be available depending on model or country (see "Operating System" on page 7).

To use the UNIX printer driver, you have to install the UNIX printer driver package first, then setup the printer. You can download the UNIX printer driver package from the Samsung website (<http://www.samsung.com>> find your product > Support or Downloads).

Installing the UNIX printer driver package

The installation procedure is common for all variants of UNIX OS mentioned.

1 From the Samsung website, download and unpack the UNIX Printer Driver package to your computer.

2 Acquire root privileges.

`"su -"`

3 Copy the appropriate driver archive to the target UNIX computer.



See administration guide of your UNIX OS for details.

4 Unpack the UNIX printer driver package.

For example, on IBM AIX, use the following commands.

`"gzip -d < enter the package name | tar xf -"`

5 Go to the unpacked directory.

6 Run the install script.

`"./install -i"`

install is the installer script file which is used to install or uninstall the UNIX Printer Driver package.

Use "**chmod 755 install**" command to give the permission to the installer script.

7 Execute the "**./install -c**" command to verify installation results.

8 Run "**installprinter**" from the command line. This will bring up the **Add Printer Wizard** window. Setup the printer in this window referring to the following procedures.

Installing driver over the network



On some UNIX OS, for example on Solaris 10, just added printers may not be enabled and/or may not accept jobs. In this case run the following two commands on the root terminal:

```
"accept <printer_name>"
```

```
"enable <printer_name>"
```

Uninstalling the printer driver package



The utility should be used to delete the printer installed in the system.

- a** Run "**uninstallprinter**" command from the terminal.
It will open the **Uninstall Printer Wizard**.
The installed printers are listed in the drop-down list.
- b** Select the printer to be deleted.
- c** Click **Delete** to delete the printer from the system.
- d** Execute the "**./install -d**" command to uninstall the whole package.
- e** To verify removal results, execute the "**./install -c**" command.

To re-install it, use the command "**./install -i**" to reinstall the binaries.

Setting up the printer

To add the printer to your UNIX system, run 'installprinter' from the command line. This will bring up the Add Printer Wizard window. Setup the printer in this window according to the following steps:

- 1** Type the name of the printer.
- 2** Select the appropriate printer model from the model list.
- 3** Enter any description corresponding to the type of the printer in the **Type** field. This is optional.
- 4** Specify any printer description in the **Description** field. This is optional.
- 5** Specify the printer location in the **Location** field.
- 6** Type the IP address or DNS name of the printer in the **Device** textbox for network-connected printers. On IBM AIX with **jetdirect Queue type**, only the DNS name is possible-numeric IP address is not allowed.
- 7** **Queue type** shows the connection as **lpd** or **jetdirect** in the corresponding list box. Additionally, **usb** type is available on Sun Solaris OS.
- 8** Select **Copies** to set the number of copies.
- 9** Check the **Collate** option to receive copies already sorted.
- 10** Check the **Reverse Order** option to receive copies in the reverse order.

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- 11 Check the **Make Default** option to set this printer as default.
- 12 Click **OK** to add the printer.

IPv6 configuration



IPv6 is supported properly only in Windows Vista or higher.



- Some features and optional goods may not be available depending on model or country (see "Features by model" on page 7 or "Menu overview" on page 30).
- If the IPv6 network seems to not be working, set all the network setting to the factory defaults and try again using **Clear Setting**.

The machine supports the following IPv6 addresses for network printing and managements.

- **Link-local Address:** Self-configured local IPv6 address (Address starts with FE80).
- **Stateless Address:** Automatically configured IPv6 address by a network router.
- **Stateful Address:** IPv6 address configured by a DHCPv6 server.
- **Manual Address:** Manually configured IPv6 address by a user.

In the IPv6 network environment, follow the next procedure to use the IPv6 address.

From the control panel

Activating IPv6



- Accessing menus may differ from model to model (see "Accessing the menu" on page 30).
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

- 1 Select  (**Menu**) > **Network** > **TCP/IP (IPv6)** > **IPv6 Activate** on the control panel.
- 2 Select **On** and press **OK**.
- 3 Turn the machine off and turn it on again.



When you install the printer driver, do not configure both IPv4 and IPv6. We recommend to configure either IPv4 or IPv6.

IPv6 configuration

DHCPv6 address configuration

If you have a DHCPv6 server on your network, you can set one of the following options for default dynamic host configuration.



- Accessing menus may differ from model to model (see "Accessing the menu" on page 30).
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

- 1 Select  (**Menu**) > **Network** > **TCP/IP (IPv6)** > **DHCPv6 Config** on the control panel.
- 2 Press **OK** to select the required value you want.
 - **DHCPv6 Addr.:** Always use DHCPv6 regardless of router request.
 - **DHCPv6 Off:** Never use DHCPv6 regardless of router request.
 - **Router:** Use DHCPv6 only when requested by a router.

From the SyncThru™ Web Service

Activating IPv6

- 1 Access a web browser, such as Internet Explorer, from Windows. Enter the machine IP address (<http://xxx.xxx.xxx.xxx>) in the address field and press the Enter key or click **Go**.
- 2 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**
- 3 When the **SyncThru™ Web Service** window opens, move the mouse cursor over the **Settings** of the top menu bar and then click **Network Settings**.
- 4 Click **TCP/IPv6** on the left pane of the website.
- 5 Check the **IPv6 Protocol** check box to activate IPv6.
- 6 Click the **Apply** button.
- 7 Turn the machine off and turn it on again.

IPv6 configuration



- You can also set the DHCPv6.
- To manually set the IPv6 address:
Check the **Manual Address** check box. Then, the **Address/Prefix** text box is activated. Enter the rest of the address (e.g.,:3FFE:10:88:194::AAAA. "A" is the hexadecimal 0 through 9, A through F).



Address must be enclosed in '[']' brackets.

IPv6 address configuration

- 1 Start a web browser, such as Internet Explorer, that supports IPv6 addressing as a URL.
- 2 Select one of the IPv6 addresses (**Link-local Address**, **Stateless Address**, **Stateful Address**, **Manual Address**) from **Network Configuration Report** (see "Printing a network configuration report" on page 145).
 - **Link-local Address:** Self-configured local IPv6 address (Address starts with FE80).
 - **Stateless Address:** Automatically configured IPv6 address by a network router.
 - **Stateful Address:** IPv6 address configured by a DHCPv6 server.
 - **Manual Address:** Manually configured IPv6 address by a user.
- 3 Enter the IPv6 addresses (e.g.,: http://[FE80::215:99FF:FE66:7701]).

Wireless network setup

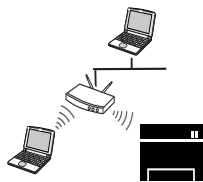


- Make sure your machine supports wireless networking. Wireless networking may not be available depending on the model (see "Features by model" on page 7).
- If the IPv6 network seems to not be working, set all the network settings to the factory defaults and try again using **Clear Setting**.

Getting started

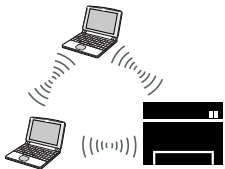
Understanding your network type

Typically, you can only have one connection between your computer and the machine at a time.



Infrastructure mode

This is an environment generally used for homes and SOHOs (Small Office/ Home Office). This mode uses an access point to communicate with the wireless machine.



Ad hoc mode

This mode does not use an access point. The wireless computer and wireless machine communicate directly.

Wireless network name and network password

Wireless networks require higher security, so when an access point is first set up, a network name (SSID), the type of security used, and a Network Password are created for the network. Ask your network administrator about this information before proceeding with the machine installation.

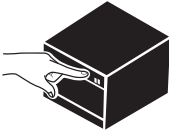
Wireless network setup

Introducing wireless set up methods

You can set wireless settings either from the machine or the computer. Choose the setting method from the below table.



Some wireless network installation types may not be available depending on the model or country.

Set up method	Connecting method	Description & Reference
With Access Point 	From the computer 	Windows user, see "Access point via USB cable" on page 166.
		Windows user, see "Access point without a USB cable (recommended)" on page 169.
		• Mac user, see "Access point via USB cable" on page 174. • Mac user, see "Access point without a USB cable (recommended)" on page 177.
		See "Using a network cable" on page 182.
	From the machine's control panel 	See "Machines with a display screen" on page 164.
		See "Using the menu button" on page 165.

Wireless network setup

Set up method	Connecting method	Description & Reference
Without Access Point 	From the computer	Windows user, see "Ad hoc via USB cable" on page 171.
	Ad-hoc 	Mac user, see "Ad hoc via USB cable" on page 179.
	Wi-Fi Direct setup 	See "Setting the Wi-Fi Direct for mobile printing" on page 185.



- If problems occur during wireless set up or driver installation, refer to the troubleshooting chapter (see "Troubleshooting for wireless network" on page 187).
- It is strongly recommended that you set the password on Access Points. If you do not set the password on Access Points, they might be exposed to illegal access from unknown machine including PCs, smart phones and printers. Refer to the Access Point user guide for password settings.

Wireless network setup

Using the WPS button

If your machine and an access point (or wireless router) support Wi-Fi Protected Setup™ (WPS), you can easily configure the wireless network settings by pressing the  (WPS) button on the control panel without a computer.



- If you want to use the wireless network using the infrastructure mode, make sure that the network cable is disconnected from the machine. Using the **WPS (PBC)** button or entering the PIN from the computer to connect to the access point (or wireless router) varies depending on the access point (or wireless router) you are using. Refer to the user's guide of the access point (or wireless router) you are using.
- When using the WPS button to set the wireless network, security settings may change. To prevent this, lock the WPS option for the current wireless security settings. The option name may differ depending on the access point (or wireless router) you are using.

Items to prepare

- Check if the access point (or wireless router) supports Wi-Fi Protected Setup™ (WPS).
- Check if your machine supports Wi-Fi Protected Setup™ (WPS).
- Networked computer (PIN mode only)

Choosing your type

There are two methods available to connect your machine to a wireless network using the  (WPS) button on the control panel.

The **Push Button Configuration (PBC)** method allows you to connect your machine to a wireless network by pressing both the  (WPS) button on the control panel of your machine and the WPS (PBC) button on a Wi-Fi Protected Setup™ WPS-enabled access point (or wireless router) respectively.

The **Personal Identification Number (PIN)** method helps you connect your machine to a wireless network by entering the supplied PIN information on a Wi-Fi Protected Setup™ WPS-enabled access point (or wireless router).

Factory default in your machine is **PBC** mode, which is recommended for a typical wireless network environment.



You can change the WPS mode from the control panel  (**Menu**) > **Network** > **Wireless** > **OK** > **WPS Setting**).

Wireless network setup

Machines with a display screen

Connecting in PBC mode

- 1 Select  (**Menu**) > **Network** > **Wireless** > **WPS Setting** > **PBC** on the control panel.

Or press and hold the  (WPS) button on the control panel for more than 2 seconds.

The machine starts waiting for up to two minutes until you press the WPS (PBC) button on the access point (or wireless router).
- 2 Press the **WPS (PBC)** button on the access point (or wireless router).

The messages are displayed on the display screen in the order below:
 - a **Connecting:** The machine is connecting to the access point (or wireless router).
 - b **Connected:** When the machine is successfully connected to the wireless network, the WPS LED light stays on.
 - c **AP SSID:** After completing the wireless network connection process, the AP's SSID information appears on the display.
- 3 Insert the supplied software CD into your CD-ROM drive, and follow the instructions in the window to set up the wireless network.

Connecting in PIN mode

- 1 Select  (**Menu**) > **Network** > **Wireless** > **WPS Setting** > **PIN** on the control panel.

Or press and hold the  (WPS) button on the control panel for more than 2 seconds.
- 2 The eight-digit PIN appears on the display.

You need to enter the eight-digit PIN within two minutes on the computer that is connected to the access point (or wireless router).

The messages are displayed on the display screen in the order below:
 - a **Connecting:** The machine is connecting to the wireless network.
 - b **Connected:** When the machine is successfully connected to the wireless network, the WPS LED light stays on.
 - c **SSID Type:** After completing the wireless network connection process, the AP's SSID information is displayed on the LCD display.
- 3 Insert the supplied software CD into your CD-ROM drive, and follow the instructions in the window to set up the wireless network.

Re-connecting to a network

When the wireless function is off, the machine automatically tries to re-connect to the access point (or wireless router) with the previously used wireless connection settings and address.

Wireless network setup



In the following cases, the machine automatically re-connects to the wireless network:

- The machine is turned off and on again.
- The access point (or wireless router) is turned off and on again.

Canceling the connection process

To cancel the wireless network connection when the machine is connecting to the wireless network, press and release the  (**Stop/Clear**) on the control panel. **You need to wait 2 minutes to re-connect to the wireless network.**

Disconnecting from a network

To disconnect the wireless network connection, press the  (WPS) button on the control panel for more than two seconds.

- **When the Wi-Fi network is in idle mode:** The machine is immediately disconnected from the wireless network and the WPS LED turns off.
- **When the Wi-Fi network is being used:** While the machine waits until the current job is finished, the light blinks fast on the WPS LED. Then, the wireless network connection is automatically disconnected and the WPS LED turns off.

Using the menu button



Some menus may not appear in the display depending on options or models. If so, it is not applicable to your machine (see "Features by model" on page 7).

Before starting, you will need to know the network name (SSID) of your wireless network and the network key if it is encrypted. This information was set when the access point (or wireless router) was installed. If you do not know about your wireless environment, please ask the person who set up your network.



After completing the wireless network connection, you need to install a machine driver to print from an application (see "Installing driver over the network" on page 148).

- 1 Select  (**Menu**) > **Network** > **Wireless** > **WLAN Settings** on the control panel.
- 2 Press the **OK** to select the setup method you want.
 - **Wizard (recommended):** In this mode, the setup is automatic. The machine will display a list of available networks from which to choose. After a network is chosen then printer will prompt for the corresponding security key.

Wireless network setup

- **Custom:** In this mode, users can give or edit manually their own SSID, or choose the security option in detail.

Setup using Windows



Shortcut to the **Samsung Easy Wireless Setup** program without the CD: If you have installed the printer driver once, you can access the **Samsung Easy Wireless Setup** program without the CD (see "Accessing management tools" on page 257).

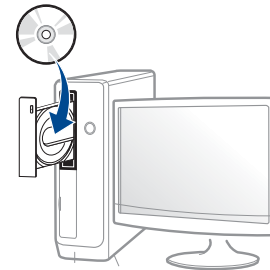
Access point via USB cable

Items to prepare

- Access point
- Network-connected computer
- Software CD that was provided with your machine
- A machine installed with a wireless network interface
- USB cable

Creating the infrastructure network

- 1 Check whether the USB cable is connected to the machine.
- 2 Turn on your computer, access point, and machine.
- 3 Insert the supplied software CD into your CD-ROM drive.



If the installation window does not appear, click **Start > All programs > Accessories > Run**.

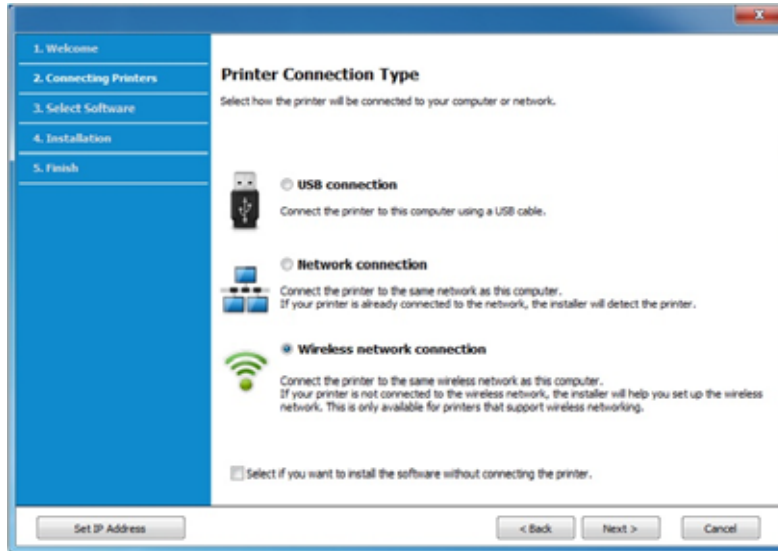
X:\Setup.exe replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.

- For Windows 8,
If the installation window does not appear, from **Charms**, select **Search > Apps** and search for **Run**. Type in X:\Setup.exe, replacing "X" with the letter that represents your CD-ROM drive and click **OK**.
If "**Tap to choose what happens with this disc.**" pop-up window appears, click the window and select **Run Setup.exe**.

- 4 Review and accept the installation agreements in the installation window. Then, click **Next**.

Wireless network setup

- 5 Select **Wireless network connection** on the **Printer Connection Type** screen. Then, click **Next**.



- 6 On the **Are you setting up your printer for the first time?** screen, select **Yes, I will set up my printer's wireless network**. Then, click **Next**.

If your printer is already connected on the network, select **No, my printer is already connected to my network**.

- 7 Select **Using a USB cable** on the **Select the Wireless Setup Method** screen. Then, click **Next**.



Wireless network setup

- 8 After searching, the window shows the wireless network devices. Select the name (SSID) of the access point you want to use and click **Next**.



If you cannot find the network name you want to choose, or if you want to set the wireless configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Enter the SSID of the access point (SSID is case-sensitive).
- **Operation Mode:** Select **Infrastructure**.
- **Authentication:** Select an authentication type.
 - Open System:** Authentication is not used, and encryption may or may not be used, depending on the need for data security.
 - Shared Key:** Authentication is used. A device that has a proper WEP key can access the network.
 - WPA Personal or WPA2 Personal:** Select this option to authenticate the print server based on a WPA Pre-Shared Key. This uses a shared secret key (generally called Pre Shared Key pass phrase), which is manually configured on the access point and each of its clients.
- **Encryption:** Select the encryption (None, WEP64, WEP128, TKIP, AES, TKIP AES).
- **Network Password:** Enter the encryption network password value.
- **Confirm Network Password:** Confirm the encryption network password value.
- **WEP Key Index:** If you are using WEP Encryption, select the appropriate **WEP Key Index**.



The wireless network security window appears when the access point has security settings.

Enter the Network Password of the access point (or router).

9

If your printer supports Wi-Fi Direct and this function is disabled, its corresponding screen will appear.

Click **OK** and **Next**.



Wireless network setup



- Wi-Fi Direct option appears on the screen only if your printer supports this feature.
- Can start to build Wi-Fi Direct by using Samsung Easy Printer Manager (see "Setting up Wi-Fi Direct" on page 186).
- **Wi-Fi Direct Name:** The default Wi-Fi Direct Name is the model name and the maximum length is 22 characters.
- **Password setting** is the numeric string, and the size is 8 ~ 64 characters.

10 When the wireless network set up is completed, disconnect the USB cable between the computer and machine. Click **Next**.

11 Follow the instructions in the installation window.

Access point without a USB cable (recommended)

Items to prepare

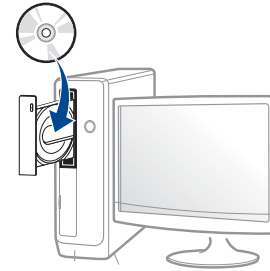
- WiFi-enabled PC running Windows 7 or higher and an access point (router)
- Software CD that was provided with your machine
- A machine installed with a wireless network interface



While setting the wireless network, the machine uses PC's wireless LAN. You might not be able to connect to the Internet.

Creating the infrastructure network

- 1** Turn on your computer, access point, and machine.
- 2** Insert the supplied software CD into your CD-ROM drive.



If the installation window does not appear, click **Start > All programs > Accessories > Run**.

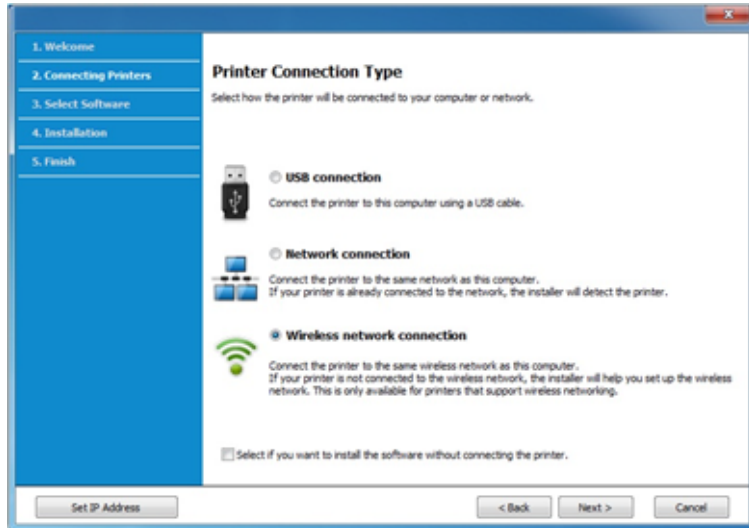
X:\Setup.exe replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.

- For Windows 8,
If the installation window does not appear, from **Charms**, select **Search > Apps** and search for **Run**. Type in X:\Setup.exe, replacing "X" with the letter that represents your CD-ROM drive and click **OK**.
If "**Tap to choose what happens with this disc.**" pop-up window appears, click the window and select **Run Setup.exe**.

- 3** Review and accept the installation agreements in the installation window. Then, click **Next**.

Wireless network setup

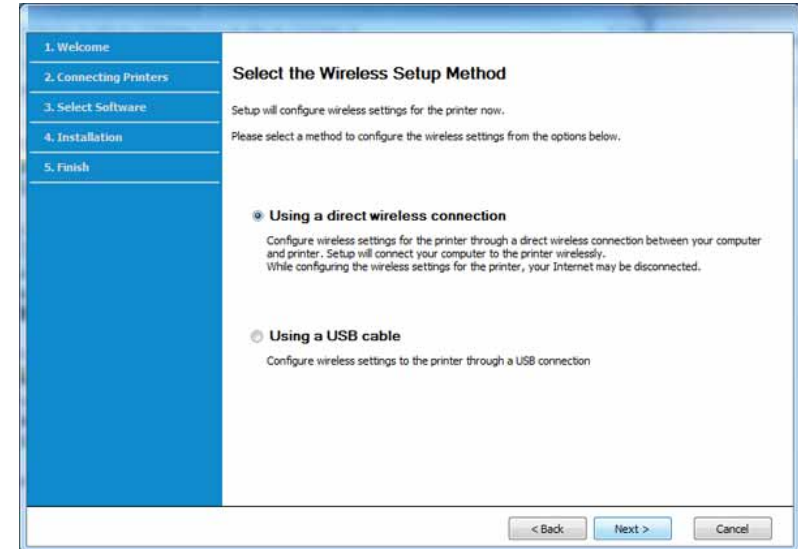
- 4 Select **Wireless network connection** on the **Printer Connection Type** screen. Then, click **Next**.



- 5 On the **Are you setting up your printer for the first time?** screen, select **Yes, I will set up my printer's wireless network**. Then, click **Next**.

If your printer is already connected on the network, select **No, my printer is already connected to my network**.

- 6 Select **Using a direct wireless connection** on the **Select the Wireless Setup Method** screen. Then, click **Next**.



Wireless network setup



Even if your computer is running Windows 7 or higher, you cannot use this feature if your PC does not support wireless network. Set the wireless network using a USB cable (see "Access point via USB cable" on page 166).

If below screen appears, press the  (WPS) button from the control panel within 2 minutes.



7 When the wireless network set up is completed, click **Next**.

8 Follow the instructions in the installation window.

Ad hoc via USB cable

If you do not have an access point (AP), you may still connect the machine wirelessly to your computer by setting up an ad-hoc wireless network by following the simple steps below.

Items to prepare

- Network-connected computer
- Software CD that was provided with your machine
- A machine installed with a wireless network interface
- USB cable

Wireless network setup

Creating the ad hoc network in Windows

- 1 Turn on your computer and the wireless network machine.
- 2 Insert the supplied software CD into your CD-ROM drive.



If the installation window does not appear, click **Start > All programs > Accessories > Run**.

X:\Setup.exe replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.

- For Windows 8,
If the installation window does not appear, from **Charms**, select **Search > Apps** and search for **Run**. Type in X:\Setup.exe, replacing "X" with the letter that represents your CD-ROM drive and click **OK**.
If "**Tap to choose what happens with this disc.**" pop-up window appears, click the window and select **Run Setup.exe**.

- 3 Review and accept the installation agreements in the installation window. Then, click **Next**.

- 4 Select **Wireless network connection** on the **Printer Connection Type** screen. Then, click **Next**.



- 5 On the **Are you setting up your printer for the first time?** screen, select **Yes, I will set up my printer's wireless network**. Then, click **Next**.
If your printer is already connected on the network, select **No, my printer is already connected to my network**.
- 6 Select **Using a USB cable** on the **Select the Wireless Setup Method** screen. Then, click **Next**.

Wireless network setup

- 7 After searching the wireless networks, a list of wireless networks your machine has searched appears. Click **Advanced Setting**.



- **Enter the wireless Network Name:** Enter the SSID name you want (SSID is case-sensitive).
- **Operation Mode:** Select ad hoc.
- **Channel:** Select the channel. (**Auto Setting** or 2412 MHz to 2467 MHz).
- **Authentication:** Select an authentication type.
Open System: Authentication is not used, and encryption may or may not be used, depending on the need for data security.
Shared Key: Authentication is used. A device that has a proper WEP key can access the network.
- **Encryption:** Select the encryption (None, WEP64, WEP128).
- **Network Password:** Enter the encryption network password value.
- **Confirm Network Password:** Confirm the encryption network password value.
- **WEP Key Index:** If you are using WEP Encryption, select the appropriate **WEP Key Index**.

The wireless network security window appears when the ad hoc network has security enabled.

Select **Open System** or **Shared Key** for the authentication and click **Next**.

- WEP (Wired Equivalent Privacy) is a security protocol preventing unauthorized access to your wireless network. WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

- 8 The window showing the wireless network setting appears. Check the settings and click **Next**.



Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer's network configuration is set to DHCP, the wireless network setting should also be DHCP. Likewise, if the computer's network configuration is set to Static, the wireless network setting should also be Static.

If your computer is set to DHCP and you want to use the Static wireless network setting, you must contact the network administrator to get the static IP address.

- **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the **Wireless Network Setting Confirm** window. If it shows Static, click **Change TCP/IP** to change the assignment method to **Receive IP address automatically (DHCP)**.

- **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the **Wireless Network Setting Confirm** window. If it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine.

For example,

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

- 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**

Wireless network setup

- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1

- 9 The **Wireless Network Setting Complete** window appears. Click **Next**.
- 10 When the wireless network settings are completed, disconnect the USB cable between the computer and machine. Click **Next**.
- 11 Follow the instructions in the installation window.

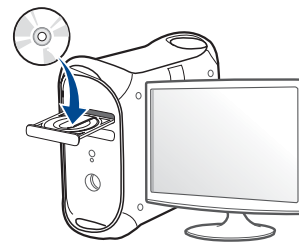
Setup using Mac

Access point via USB cable

Items to prepare

- Access point
- Network-connected printer
- Software CD that was provided with your machine
- A machine installed with a wireless network interface
- USB cable

- 1 Make sure that the machine is connected to your computer and powered on.
- 2 Insert the supplied software CD into your CD-ROM drive.



Wireless network setup

- 3 Double-click the CD-ROM icon that appears on your Mac desktop.
 - For Mac OS X 10.8, double-click the CD-ROM that appears on **Finder**.
- 4 Double-click the **MAC_Installer** folder > **Installer OS X** icon.
- 5 Click **Continue**.
- 6 Read the license agreement and click **Continue**.
- 7 Click **Agree** to agree to the license agreement.
- 8 Click **Install**. All components necessary for machine operations will be installed.

If you click **Customize**, you can choose individual components to install.
- 9 Enter the password and click **OK**.

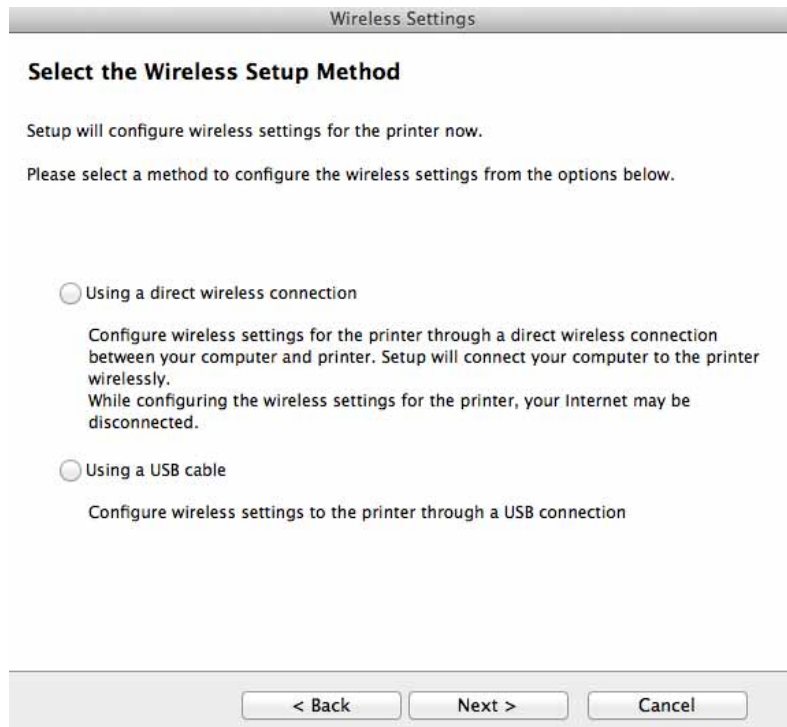
- 10 Select **Configuration of Wireless network** on the **Printer Connection Type** and click **Continue**.



Wireless network setup

- 11** If **Wireless Settings** screen appears, select **Using a USB cable** and click **Next**.

If the screen does not appear, go to step 15.



Wireless Settings

Select the Wireless Setup Method

Setup will configure wireless settings for the printer now.
Please select a method to configure the wireless settings from the options below.

☐ Using a direct wireless connection

Configure wireless settings for the printer through a direct wireless connection between your computer and printer. Setup will connect your computer to the printer wirelessly.
While configuring the wireless settings for the printer, your Internet may be disconnected.

☐ Using a USB cable

Configure wireless settings to the printer through a USB connection

< Back Next > Cancel

- 12** After searching, the window shows the wireless network devices. Select the name (SSID) of the access point you want to use and click **Next**.



When you set the wireless configuration manually, click **Advanced Setting**.

- **Enter the wireless Network Name:** Enter the SSID of the access point (SSID is case-sensitive).
- **Operation Mode:** Select **Infrastructure**.
- **Authentication:** Select an authentication type.
 - Open System:** Authentication is not used, and encryption may or may not be used, depending on the need for data security.
 - Shared Key:** Authentication is used. A device that has a proper WEP key can access the network.
 - WPA Personal or WPA2 Personal:** Select this option to authenticate the print server based on the WPA Pre-Shared Key. This uses a shared secret key (generally called Pre Shared Key pass phrase) that is manually configured on the access point and each of its clients.
- **Encryption:** Select the encryption. (None, WEP64, WEP128, TKIP, AES, TKIP, AES)
- **Network Password:** Enter the encryption network password value.
- **Confirm Network Password:** Confirm the encryption network password value.
- **WEP Key Index:** If you are using WEP Encryption, select the appropriate **WEP Key Index**.

The wireless network security window appears when the access point has security enabled.

Enter the Network Password of the access point (or router).

Wireless network setup

- 13** The window showing the wireless network setting appears. Check the settings and click **Next**.



- Wi-Fi Direct option appears on the screen only if your printer supports this feature.
- Can start to build Wi-Fi Direct by using Samsung Easy Printer Manager (see "Setting up Wi-Fi Direct" on page 186).
- **Wi-Fi Direct Name:** The default Wi-Fi Direct Name is the model name and the maximum length is 22 characters.
- **Password setting** is the numeric string, and the size is 8 ~ 64 characters.

- 14** The **Wireless Network Setting Complete** window appears. Click **Next**.

- 15** When the wireless network settings are completed, disconnect the USB cable between the computer and machine. Click **Next**.

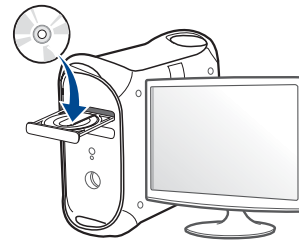
Access point without a USB cable (recommended)

Items to prepare

- WiFi-enabled Mac running Mac OS 10.7 or higher and an access point (router)
- Software CD that was provided with your machine
- A machine installed with a wireless network interface

- 1** Make sure that the machine is connected to your computer and powered on.

- 2** Insert the supplied software CD into your CD-ROM drive.



- 3** Double-click the CD-ROM icon that appears on your Mac desktop.

- For Mac OS X 10.8, double-click the CD-ROM that appears on **Finder**.

- 4** Double-click the **MAC_Installer** folder > **Installer OS X** icon.

- 5** Click **Continue**.

Wireless network setup

6 Read the license agreement and click **Continue**.

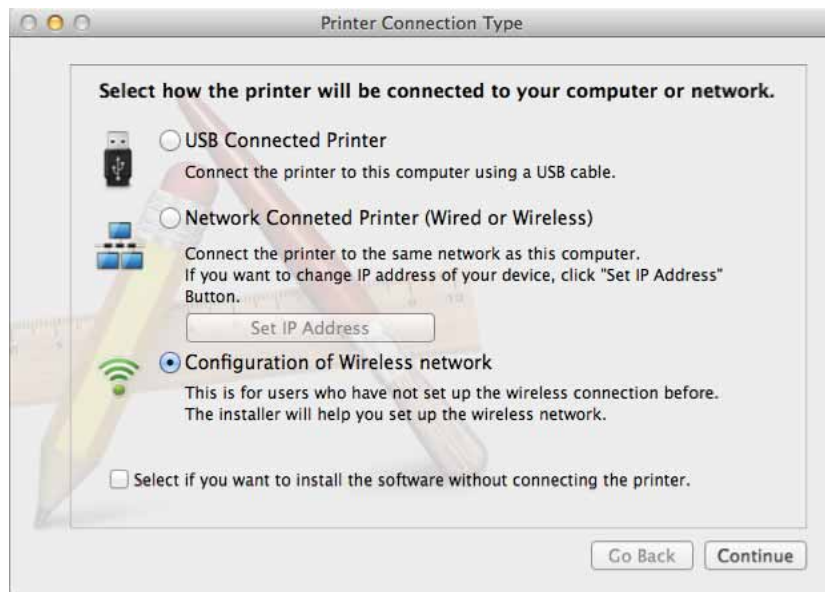
7 Click **Agree** to agree to the license agreement.

8 Click **Install**. All components necessary for machine operations will be installed.

If you click **Customize**, you can choose individual components to install.

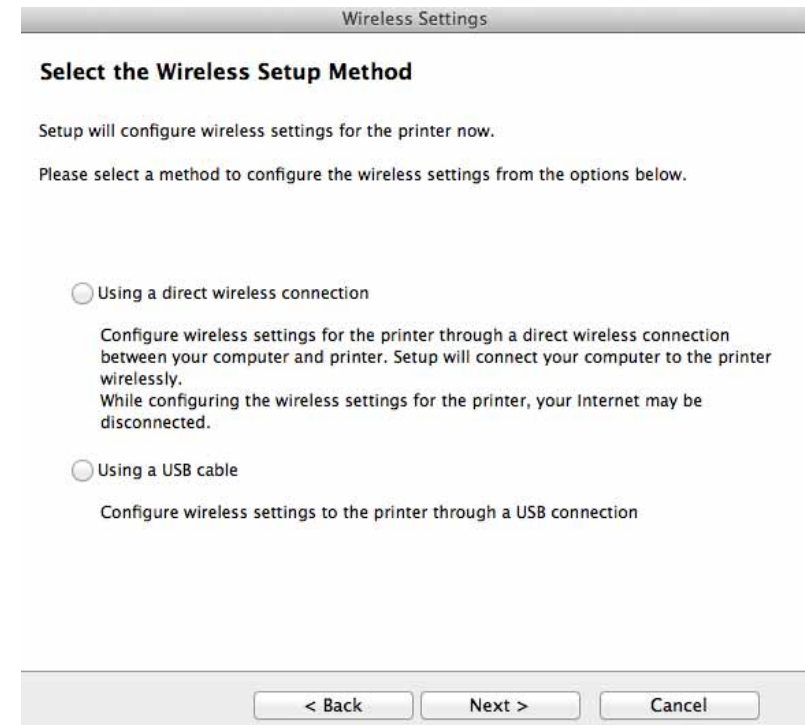
9 Enter the password and click **OK**.

10 Select **Configuration of Wireless network** on the **Printer Connection Type** and click **Continue**.



11 If **Wireless Settings** screen appears, select **Using a direct wireless connection** and click **Next**.

If the screen does not appear, go to step 13.



Wireless network setup



If below screen appears, press the  (WPS) button from the control panel within 2 minutes.



12 When the wireless network set up is completed, click **Next**.

13 After the installation is finished, click **Close**.

Ad hoc via USB cable

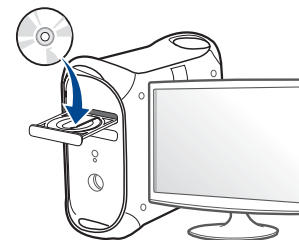
If you do not have an access point (AP), you may still connect the machine wirelessly to your computer by setting up an ad hoc wireless network by following these simple directions.

Items to prepare

- Network-connected computer
- Software CD that was provided with your machine
- A machine installed with a wireless network interface
- USB cable

Creating the ad hoc network in Mac

- 1** Make sure that the machine is connected to your computer and powered on.
- 2** Insert the supplied software CD into your CD-ROM drive.



Wireless network setup

- 3 Double-click the CD-ROM icon that appears on your Mac desktop.
 - For Mac OS X 10.8, double-click the CD-ROM that appears on **Finder**.
- 4 Double-click the **MAC_Installer** folder > **Installer OS X** icon.
- 5 Click **Continue**.
- 6 Read the license agreement and click **Continue**.
- 7 Click **Agree** to agree to the license agreement.
- 8 Click **Install**. All components necessary for machine operations will be installed.

If you click **Customize**, you can choose individual components to install.
- 9 Enter the password and click **OK**.

- 10 Select **Configuration of Wireless network** on the **Printer Connection Type** and click **Continue**.



Wireless network setup

- 11** After searching the wireless networks, a list of wireless networks your machine has searched appears. Click **Advanced Setting**.



- **Enter the wireless Network Name:** Enter the SSID name (SSID is case-sensitive).
- **Operation Mode:** Select ad hoc.
- **Channel:** Select the channel (**Auto Setting** or 2412 MHz to 2467 MHz).
- **Authentication:** Select an authentication type.
Open System: Authentication is not used, and encryption may or may not be used, depending on the need for data security.
Shared Key: Authentication is used. A device that has a proper WEP key can access the network.
- **Encryption:** Select the encryption (None, WEP64, WEP128).
- **Network Password:** Enter the encryption network password value.
- **Confirm Network Password:** Confirm the encryption network password value.
- **WEP Key Index:** If you are using WEP Encryption, select the appropriate **WEP Key Index**.

The wireless network security window appears when the ad hoc network has security setting.

Select **Open System** or **Shared Key** for the authentication and click **Next**.

- WEP (Wired Equivalent Privacy) is a security protocol preventing unauthorized access to your wireless network. WEP encrypts the data portion of each packet exchanged on a wireless network using a 64-bit or 128-bit WEP encryption key.

- 12** The window showing the wireless network settings appears. Check the settings and click **Next**.



Before entering the IP address for the machine, you must know the computer's network configuration information. If the computer's network configuration is set to DHCP, the wireless network setting should also be DHCP. Likewise, if the computer's network configuration is set to Static, the wireless network setting should also be Static.

If your computer is set to DHCP and you want to use Static wireless network setting, you must contact the network administrator to get the static IP address.

- **For the DHCP method**

If the IP address assignment method is DHCP, check if DHCP is shown in the **Wireless Network Setting Confirm** window. If it shows Static, click **Change TCP/IP** to change the assignment method to **Receive IP address automatically (DHCP)**.

- **For the Static method**

If the IP address assignment method is Static, check if Static is shown in the **Wireless Network Setting Confirm** window. If it shows DHCP, click **Change TCP/IP** to enter the IP address and other network configuration values for the machine.

For example,

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

- IP address: 169.254.133.42
- Subnet Mask: 255.255.0.0

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

- IP address: 169.254.133.**43**

Wireless network setup

- Subnet Mask: 255.255.0.0 (Use the computer's subnet mask.)
- Gateway: 169.254.133.1

13 When the window that tells you that the network cable connection is confirmed appears, disconnect the network cable and click **Next**.

If the network cable is connected, it may have trouble finding the machine when configuring the wireless network.

14 The wireless network connects according to the network configuration.

15 Wireless network set up is completed. After installation is finished, click **Quit**.



After completing the wireless network connection, you need to install a machine driver to print from an application (see "Installation for Mac" on page 139).

Using a network cable



Machines that do not support the network port will not be able to use this feature (see "Rear view" on page 20).

Your machine is a network compatible machine. To enable your machine to work with your network, you will need to perform some configuration procedures.



- After completing the wireless network connection, you need to install a machine driver to print from an application (see "Installing driver over the network" on page 148).
- See your network administrator, or the person that set up your wireless network, for information about your network configuration.

Items to prepare

- Access point
- Network-connected computer
- Software CD that was provided with your machine
- A machine installed with a wireless network interface
- Network cable

Wireless network setup

Printing a network configuration report

You can identify the network settings of your machine by printing a network configuration report.

See "Printing a network configuration report" on page 145.

IP setting using SetIP Program (Windows)

This program is used to manually set the network IP address of your machine using its MAC address to communicate with the machine. The MAC address is the hardware serial number of the network interface and can be found in the **Network Configuration Report**.

See "Setting IP address" on page 145.

Configuring the machine's wireless network

Before starting you will need to know the network name (SSID) of your wireless network and the network key if it is encrypted. This information was set when the access point (or wireless router) was installed. If you do not know about your wireless environment, please ask the person who set up your network.

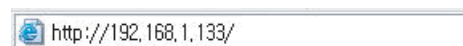
To configure wireless parameters, you can use **SyncThru™ Web Service**.

Using SyncThru™ Web Service

Before starting wireless parameter configuration, check the cable connection status.

- 1 Check whether or not the network cable is connected to the machine. If not, connect the machine with a standard network cable.
- 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** on the upper right of the SyncThru™ Web Service website.
- 4 Type in the **ID** and **Password** then click **Login**. We recommend you to change the default password for security reasons.
 - **ID: admin**
 - **Password: sec00000**
- 5 When the **SyncThru™ Web Service** window opens, click **Network Settings**.
- 6 Click **Wireless > Wizard**.

Wireless network setup



Wizard will help you setup the wireless network configuration. However, if you want to set the wireless network directly, select **Custom**.

7

Select the one **Network Name(SSID)** in the list.

- **SSID:** SSID (Service Set Identifier) is a name that identifies a wireless network, access points, and wireless devices attempting to connect to a specific wireless network must use the same SSID. The SSID is case sensitive.
- **Operation Mode:** **Operation Mode** refers to the type of wireless connections (see "Wireless network name and network password" on page 160).
 - **Ad-hoc:** Allows wireless devices to communicate directly with each other in a peer-to-peer environment.
 - **Infrastructure:** Allows wireless devices to communicate with each other through an access point.



If your network's **Operation Mode** is **Infrastructure**, select the SSID of the access point. If the **Operation Mode** is **Ad-hoc**, select the machine's SSID.

8

Click **Next**.

If the wireless security setting window appears, enter the registered password (network password) and click **Next**.

9

The confirmation window appears, please check your wireless setup. If the setup is right, click **Apply**.



Disconnect the network cable (standard or network). Your machine should then start communicating wirelessly with the network. In case of Ad-hoc mode, you can use a wireless LAN and wired LAN simultaneously.

10

Insert the supplied software CD into your CD-ROM drive, and follow the instructions in the window to set up the wireless network.

Wireless network setup

Turning the Wi-Fi network on/off



If your machine has a display, you can also turn on/off the Wi-Fi from the machine's control panel using the **Network** menu.

- 1 Check whether the network cable is connected to the machine. If not, connect the machine with a standard network cable.
- 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** on the upper right of the SyncThru™ Web Service website.
- 4 Type in the **ID** and **Password**, then click **Login**. We recommend you to change the default password for security reasons.
 - **ID: admin**
 - **Password: sec00000**
- 5 When the **SyncThru™ Web Service** window opens, click **Network Settings**.

6

Click **Wireless > Custom**.

You can also turn the Wi-Fi network on/off.

Setting the Wi-Fi Direct for mobile printing

Wi-Fi Direct is an easy-to-setup peer-to-peer connection method between the Wi-Fi Direct certified printer and a mobile device that provides a secure connection and better throughput than ad hoc mode.

With Wi-Fi Direct, you can connect your printer to a Wi-Fi Direct network while concurrently connecting to an access point. You can also use a wired network and a Wi-Fi Direct network simultaneously so multiple users can access and print documents both from Wi-Fi Direct and from a wired network.



- You cannot connect your mobile device to the internet through the printer's Wi-Fi Direct.
- The supported protocol list may differ from your model, Wi-Fi Direct networks do NOT support IPv6, network filtering, IPSec, WINS, and SLP services.
- The maximum number of devices that can be connected via Wi-Fi Direct is 3.

Wireless network setup

Setting up Wi-Fi Direct

You can enable Wi-Fi Direct feature by one of the following methods.

From the USB cable-connected computer(recommended)

After the driver installation is complete, Samsung Easy Printer Manager can be used to change Wi-Fi Direct settings.



Samsung Easy Printer Manager is Available for Windows and Mac OS users only.

- From the **Start** menu, select **Programs** or **All Programs** > **Samsung Printers** > Samsung Easy Printer Manager > **Device Settings** > **Network**.
 - **Wi-Fi Direct On/Off:** Select **On** to enable.
 - **Device Name:** Enter the printer's name for searching for your printer on a wireless network. By default, the device name is the model name.
 - **IP Address:** Enter the IP address of the printer. This IP address is used only for the local network and not for the infrastructure wired or wireless network. We recommend using the default local IP address (the default local IP address of the printer for Wi-Fi Direct is 192.168.3.1)
 - **Group Owner:** Activate this option to assign the printer the Wi-Fi Direct group's owner. The **Group Owner** acts similar to a wireless access point. We recommend activating this option.

- **Network Password:** If your printer is a **Group Owner**, a **Network Password** is required for other mobile devices to connect to your printer. You can configure a network password yourself, or can remember the given Network Password that is randomly generated by default.

From the machine (Machines with a display screen)



Accessing menus may differ from model to model (see "Accessing the menu" on page 30).

- Select  (Menu) > **Network** > **Wireless** > **Wi-Fi Direct** on the control panel.
- Enable **Wi-Fi Direct**.

From the network-connected computer

If your printer is using a network cable or a wireless access point, you can enable and configure Wi-Fi Direct from SyncThru™ Web Service.

- Access **SyncThru™ Web Service**, select **Settings** > **Network Settings** > **Wireless** > **Wi-Fi Direct**.
- Enable or disable **Wi-Fi Direct** and set other options.

Wireless network setup



- For Linux OS users,
 - Print an IP network configuration report to check the output (see "Printing a network configuration report" on page 145).
 - Access **SyncThru Web Service**, select **Settings > Network Settings > Wireless > Wi-Fi Direct**.
 - Enable or disable **Wi-Fi Direct**.

Setting up the mobile device

- After setting up Wi-Fi Direct from the printer, refer to the user manual of the mobile device you are using to set its Wi-Fi Direct.
- After setting up Wi-Fi Direct, you need to download the mobile printing application (For example: Samsung Mobile printer) to print from your smartphone.



- When you have found the printer you want to connect to from your mobile device, select the printer and the printer's LED will blink. Press the WPS button on the printer and it will be connected to your mobile device.
- If your mobile device does not support Wi-Fi Direct, you need to enter the "Network Key" of a printer instead of pushing the WPS button.

Troubleshooting for wireless network

Problems during setup or driver installation

Printers Not Found

- Your machine may not be turned on. Turn on your computer and the machine.
- USB cable is not connected between your computer and machine. Connect the machine to your computer using the USB cable.
- The machine does not support wireless networking (see "Features by model" on page 7).

Connecting Failure - SSID Not Found

- The machine is unable to find the network name (SSID) you have selected or entered. Check the network name (SSID) on your access point and try connecting again.
- Your access point is not turned on. Turn on your access point.

Wireless network setup

Connecting Failure - Invalid Security

- Security is not configured correctly. Check the configured security on your access point and machine.

Connecting Failure - General Connection Error

- Your computer is not receiving a signal from your machine. Check the USB cable and your machine's power.

Connecting Failure - Connected Wired Network

- Your machine is connected with a wired network cable. Remove the wired network cable from your machine.

Connecting Failure - Assigning the IP address

- Cycle the power for the access point (or wireless router) and machine.

PC Connection Error

- The configured network address is unable to connect between your computer and machine.
 - For a DHCP network environment
The machine receives the IP address automatically (DHCP) when computer is configured to DHCP.



If the printing job is not working in DHCP mode, the problem may be caused by the automatically changed IP address. Compare the IP address between the product's IP address and the printer port's IP address.

How to compare:

- 1 Print the network information report of your printer, and then check the IP address (see "Printing a network configuration report" on page 145).
- 2 Check the printer port's IP address from your computer.
 - a Click the Windows **Start** menu.
 - For Windows 8, from **Charms**, select **Search > Settings**.
 - b For Windows XP/Server 2003, select **Printer and Faxes**.
 - For Windows Server 2008/Vista, select **Control Panel > Hardware and Sound > Printers**.
 - For Windows 7/8, select **Control Panel > Devices and Printers**.
 - For Windows Server 2008 R2, select **Control Panel > Hardware > Devices and Printers**.
 - c Right-click your machine.
 - d For Windows XP/2003/2008/Vista, press **Properties**.
For Windows 7/8 and Windows Server 2008 R2, from context menus, select the **Printer properties**.
If **Printer properties** item has ► mark, you can select other printer drivers connected with selected printer.
 - e Click **Port** tab.
 - f Click **Configure Port...** button.
 - g Check if **Printer Name or IP Address**: is the IP address on the network configuration Sheet.
- 3 Change the printer port's IP address if it is different from the network information report's.
If you want to use the software installation CD to change the port IP,

Wireless network setup

Connect to a network printer. Then reconnect the IP address.

- 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 145).

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 devices 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.

Supported Mobile OS

- Android OS 2.3 or higher
- iOS 4.0 or higher

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.



Android



iOS

Using the NFC feature

The NFC (Near Field Communication) printer allows you to directly print/scan/fax from your mobile device just by holding your mobile device over the NFC tag on your printer. It does not require installing print driver or connecting to an access point. You just need NFC supported mobile device. In order to use this feature, Samsung Mobile Print app needs to be installed on your mobile device.



- Depending on the material of the mobile device cover, NFC recognition may not work properly.
- Depending on the mobile device you are using, the transmission speed may differ.
- This feature is available only for the model with a NFC tag (see "Machine overview" on page 18).
- Using a cover or a battery other than the ones that came with the mobile device, or a metal cover/sticker can block NFC.
- If NFC devices keep failing to communicate, remove and reinstall the battery from the mobile device, then try again.

Requirements

- NFC and Wi-Fi Direct enabled, Samsung Mobile Print app installed mobile device with Android OS 4.0 or higher.



Only Android OS 4.1 or higher will automatically enable the Wi-Fi Direct feature on your mobile device when you enable the NFC feature. We recommend you to upgrade your mobile device to Android OS 4.1 or higher to use the NFC feature.

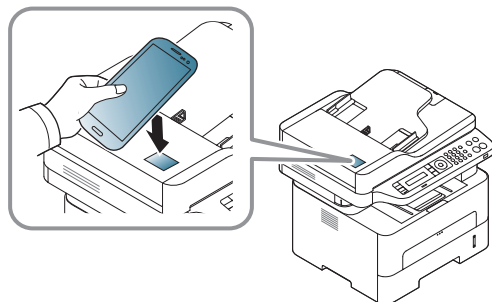
- Wi-Fi Direct feature enabled printer (see "Setting up Wi-Fi Direct" on page 186).

Using the NFC feature

Printing

- 1 Check that NFC and Wi-Fi Direct features are enabled on your mobile device and Wi-Fi Direct feature is enabled on your printer (see "Setting the Wi-Fi Direct for mobile printing" on page 185).
- 2 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag(NFC) on your printer.

Wait few seconds for the **Samsung Mobile Print** app to start.



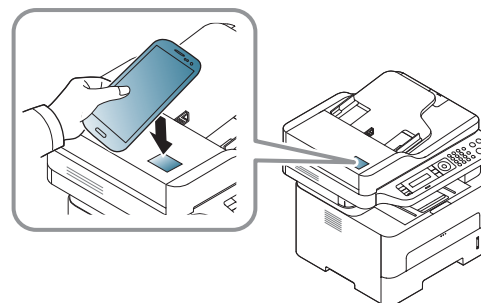
- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.
- If your do not have **Samsung Mobile Print** app installed on your mobile devices, it automatically connects to **Samsung Mobile Print** app download page. Download the app and try again.

- 3 Select print mode.
- 4 Select the content you want to print.

If necessary, change the print option by pressing the .

- 5 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag(NFC) on your printer.

Wait few seconds for the mobile device to connect to the printer.



- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.

- 6 The printer starts printing.

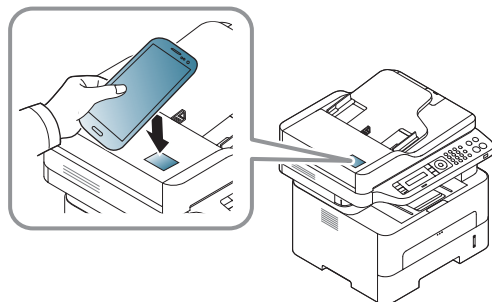
Using the NFC feature

Scanning

- 1 Check that NFC and Wi-Fi Direct features are enabled on your mobile device and Wi-Fi Direct feature is enabled on your printer (see "Setting the Wi-Fi Direct for mobile printing" on page 185).

- 2 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.

Wait few seconds for the **Samsung Mobile Print** app to start.

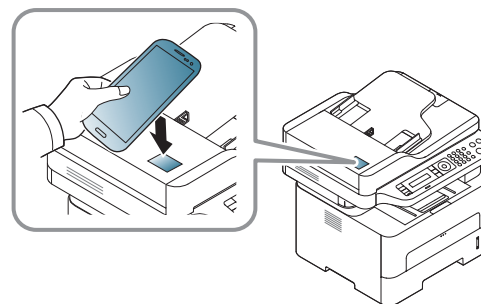


- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.
- If your do not have **Samsung Mobile Print** app installed on your mobile devices, it automatically connects to **Samsung Mobile Print** app download page. Download the app and try again.

- 3 Select scan mode.
- 4 Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading in manual feeder" on page 39).

If necessary, change the scan option by pressing the .

- 5 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.



- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.

- 6 The printer starts scanning the content.
The scanned data is saved on your mobile device.

Using the NFC feature



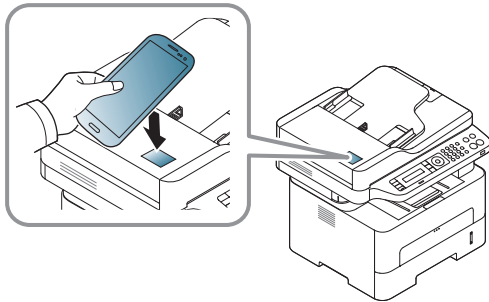
If you want to continue scanning, follow the instruction on the app screen.

Sending Fax

1 Check that NFC and Wi-Fi Direct features are enabled on your mobile device and Wi-Fi Direct feature is enabled on your printer (see "Setting the Wi-Fi Direct for mobile printing" on page 185).

2 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.

Wait few seconds for the **Samsung Mobile Print** app to start.



- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.
- If you do not have **Samsung Mobile Print** app installed on your mobile devices, it automatically connects to **Samsung Mobile Print** app download page. Download the app and try again.

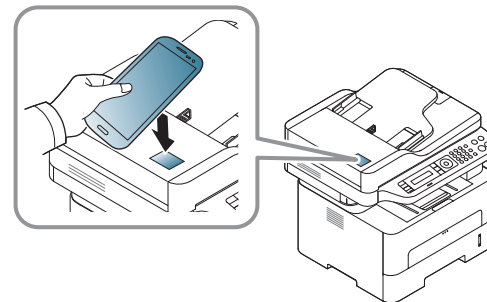
3 Select fax mode.

4 Select the content you want to send fax.

If necessary, enter the fax number and change the fax option by pressing the .

5 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.

Wait few seconds for the mobile device to connect to the printer.



Using the NFC feature



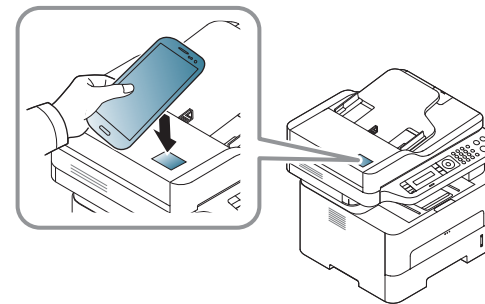
- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.

6 The printer starts faxing the content.

Registering Google Cloud Printer

- 1 Check that NFC and Wi-Fi Direct features are enabled on your mobile device and Wi-Fi Direct feature is enabled on your printer.
- 2 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.

Wait a few seconds for the **Samsung Mobile Print** app to start.

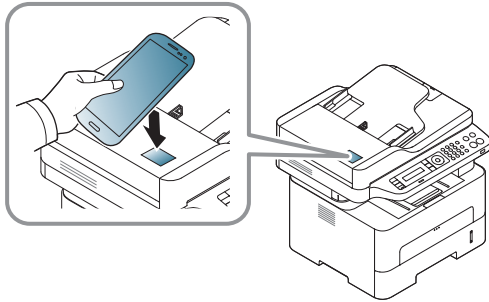


- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.
- If you do not have **Samsung Mobile Print** app installed on your mobile devices, it automatically connects to **Samsung Mobile Print** app download page. Download the app and try again.

Using the NFC feature

- 3 Select device status icon.
- 4 Select **Google Cloud Print > Register Google Cloud Printer**.
- 5 Tag the NFC tag on your mobile device (usually located on the back of the mobile device) over the NFC tag (NFC) on your printer.

Wait a few seconds for the mobile device to connect to the printer.



- For some mobile devices, NFC tag might not be located at the back of the mobile device. Check the location of the NFC antenna on your mobile device before tagging.
- If error message about changed PIN number appears, enter a changed PIN number and press **OK**. Follow the instruction on the app screen to update the PIN number.

- 6 Confirm your printer in pop-up window.
Now your printer is registered with Google Cloud Print™ service

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 **Raw TCP/IP, LPR, IPP** or **mDNS**.

You can enable the IPP protocol or mDNS protocol.

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

Registering from Samsung Mobile Print app



In order to use this feature, Samsung Mobile Print app needs to be installed on your mobile device.

- 1 Open Samsung Mobile Print app from your mobile device.
- 2 Select device setting.
- 3 Select **Google Cloud Print**.
- 4 Enter your printer's name and description.



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

- 5 Click **Register**.
- 6 You need to authenticate 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**
- 7 Confirm your printer in the pop-up window.
Now your printer is registered with Google Cloud Print™ service.

Registering from the Chrome Browser



- 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.