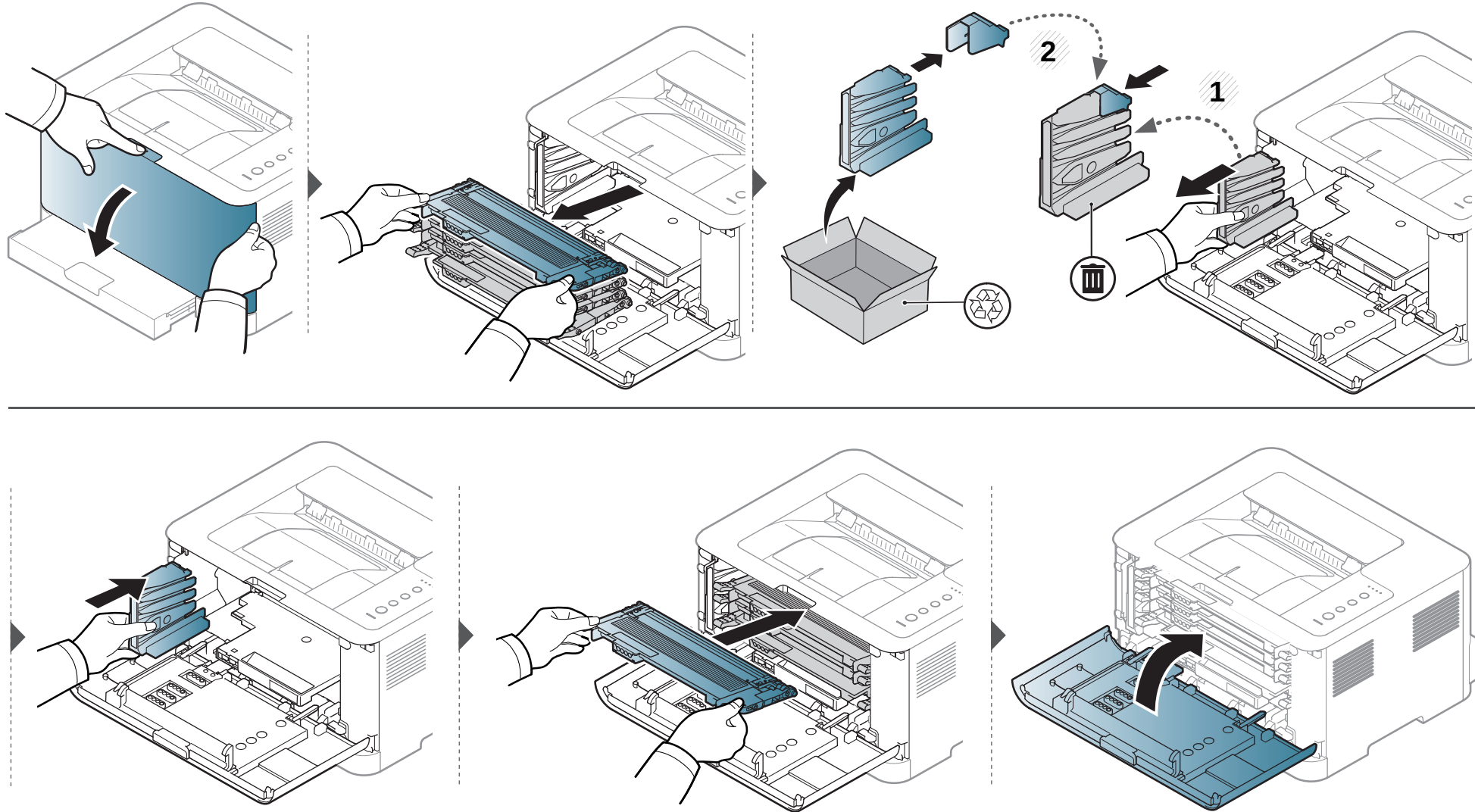


Replacing the waste toner container

The order information is provided for optional accessories (see "Available supplies" on page 42).



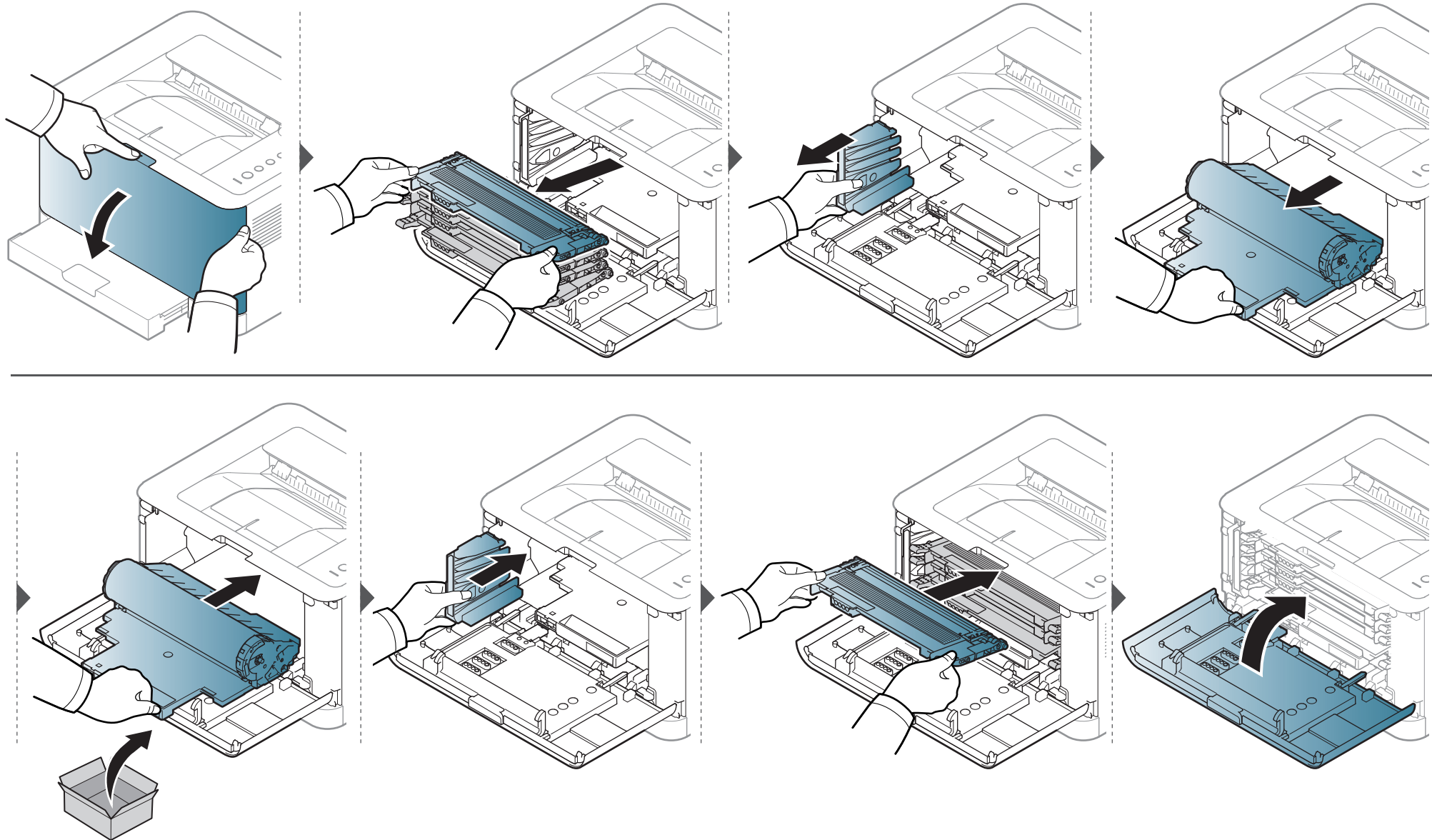
Replacing the imaging unit

When the life span of the imaging unit has expired, the Smart Panel program window appears on the computer, indicating the imaging unit needs to be placed. Otherwise, your machine stops printing.



- Don't use sharp objects such as a knife or scissors to open the imaging unit package. You could damage the surface of the imaging unit.
- Be careful not to scratch the surface of the imaging unit.
- To prevent damage, do not expose the imaging unit to light for more than a few minutes. Cover it with a piece of paper to protect it if necessary.
- Before closing the front cover, make sure all toner cartridges are installed properly.

Replacing the imaging unit



Cleaning the machine

If printing quality problems occur or if you use your machine in a dusty environment, you need to clean your machine regularly to keep it in the best printing condition and use your machine longer.



- Cleaning the cabinet of the machine with cleaning materials containing large amounts of alcohol, solvents, or other strong substances can discolor or distort the cabinet.
- If your machine or the surrounding area is contaminated with toner, we recommend you use a cloth or tissue dampened with water to clean it. If you use a vacuum cleaner, toner blows in the air and might be harmful to you.
- During the printing process, paper, toner, and dust particles can accumulate inside the machine. This buildup can cause print quality problems, such as toner specks or smearing. Cleaning the inside of the machine clears and reduces these problems.

Cleaning the outside

Clean the machine cabinet with a soft, lint-free cloth. Dampen the cloth slightly with water, but be careful not to let any water drip onto or into the machine.

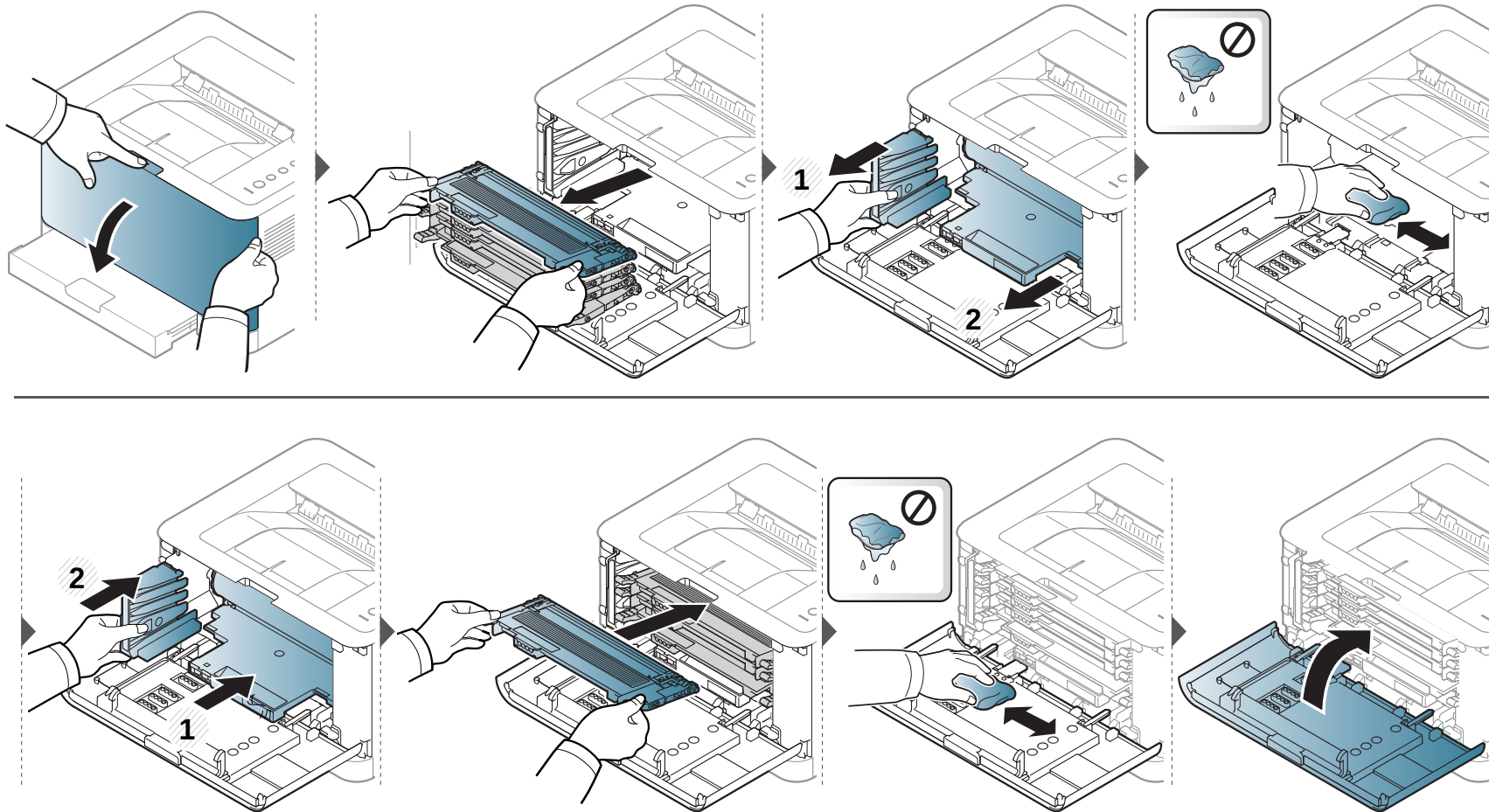
Cleaning the inside

During the printing process, paper, toner, and dust particles can accumulate inside the machine. This buildup can cause print quality problems, such as toner specks or smearing. Cleaning the inside of the machine clears and reduces these problems.

Cleaning the machine



- Use a dry lint-free cloth to clean the machine.
- If your machine has a power switch, turn the power switch off before cleaning the machine.
- Before opening the top cover, close the output support first.



Tips for moving & storing your machine

- When moving the machine, do not tilt or turn it upside down. Otherwise, the inside of the machine may be contaminated by toner, which can cause damage to the machine or reduce print quality.
- When moving the machine, make sure at least two people are holding the machine securely.



4. Troubleshooting

This chapter gives helpful information for what to do if you encounter an error.

- **Tips for avoiding paper jams** 58
- **Clearing paper jams** 59
- **Understanding the status LED** 62



This chapter gives helpful information for what to do if you encounter an error.

If your machine has a display screen, check the message on the display screen first to solve the error. If you cannot find a solution to your problem in this chapter, refer to the **Troubleshooting** chapter in the Advanced User's Guide (see "Troubleshooting" on page 172).

If you cannot find a solution in the User's Guide or the problem persists, call for service.

Tips for avoiding paper jams

By selecting the correct media types, most paper jams can be avoided. To avoid paper jams, refer to the following guidelines:

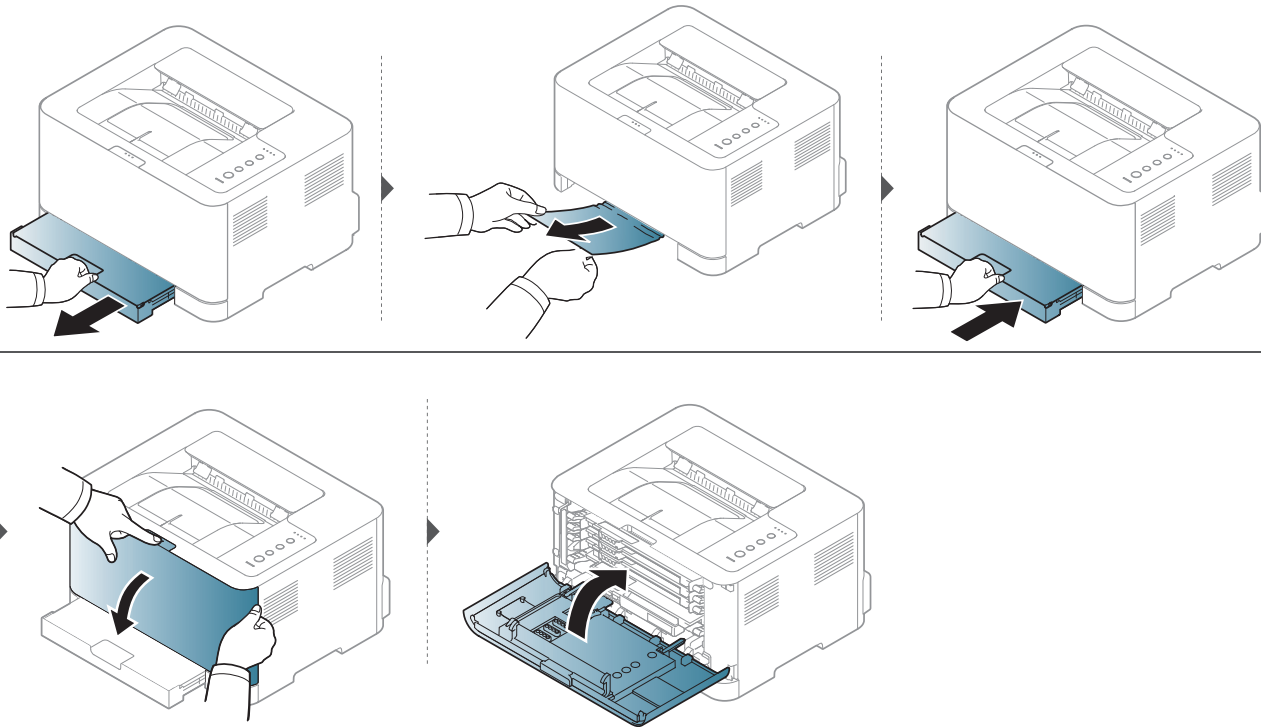
- Ensure that the adjustable guides are positioned correctly (see "Tray overview" on page 27).
- Do not overload the tray. Ensure that the paper level is below the paper capacity mark on the inside of the tray.
- Do not remove paper from the tray while your machine is printing.
- Flex, fan, and straighten paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix paper types in a tray.
- Use only recommended print media (see "Print media specifications" on page 68).
- Perforated or embossed paper does not separate easily. Flex the sheets back and forth to loosen them, and fan them. Feed single paper from tray if there are multi-feeds or paper jams.
- Grain refers to the alignment of the paper fibers in a sheet of paper. Grain long paper is recommended.
- Do not use rough-edged paper.

Clearing paper jams



To avoid tearing the paper, pull the jammed paper out slowly and gently.

In tray

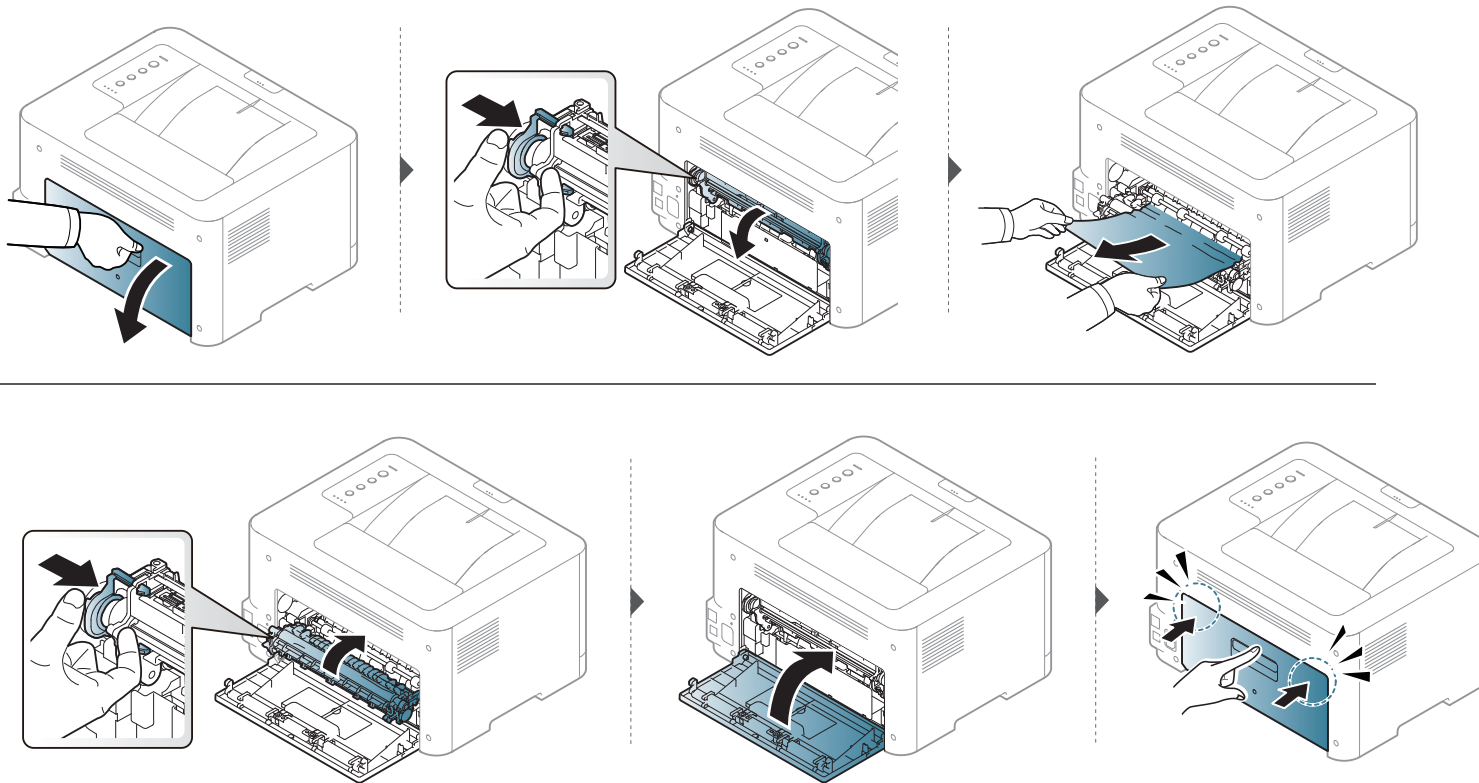


Clearing paper jams

Inside the machine



The fuser area is hot. Take care when removing paper from the machine.

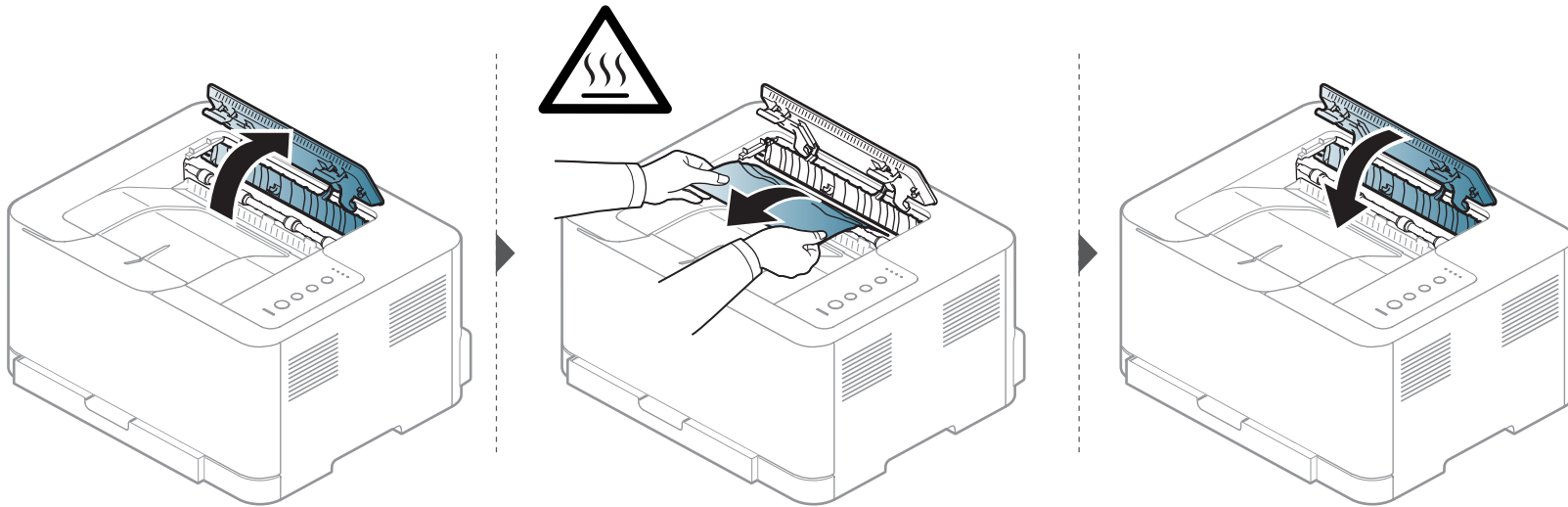


Clearing paper jams

In exit area



The fuser area is hot. Take care when removing paper from the machine.



Understanding the status LED

The color of the LED indicates the machine's current status.



- Some LEDs may not be available depending on model or country (see "Control panel overview" on page 20).
- To resolve the error, look at the error message and its instructions from the troubleshooting part (see "Troubleshooting" on page 172).
- You also can resolve the error with the guideline from the computer's Samsung Printing Status program window (see "Using Samsung Printer Status" on page 164).
- If the problem persists, call a service representative.

Understanding the status LED

Status LED

The color of the status LED indicates the machine's current status.

Status			Description
 (Status LED)	Off		• The machine is off-line. • The machine is in power saver mode. When data is received, or any button is pressed, it switches to on-line automatically.
	Blue	On	The machine is on-line and can be used.
		Blinking	• When the status LED slowly blinks, the machine is receiving data from the computer. • When the status LED blinks rapidly, the machine is printing data.
	Orange	On	• The toner cartridge life^a is totally empty. Remove the old toner cartridge and install a new one. • A paper jam has occurred (see "Clearing paper jams" on page 59). • The door is open. Close the door. • There is no paper in the tray. Load paper in the tray (see "Loading paper in the tray" on page 28). • The machine has stopped due to a major error. • The waste toner container is not installed in the machine, or the waste toner container is full (see "Replacing the waste toner container" on page 50). • An imaging unit has almost reached its estimated cartridge life. It is recommended to replace the imaging unit.
		Blinking	• A minor error has occurred and the machine is waiting for the error to be cleared. When the problem is cleared, the machine resumes its original task. • Small amount of toner is left in the cartridge. The estimated cartridge life of toner is close. Prepare a new cartridge for replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 46).^b

a. Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19798. The number of pages may be affected by operating environment, printing interval, media type, and media size. Some amount of toner may remain in the cartridge even when the orange LED is on and the printer stops printing.

b. Some LEDs may not be available depending on model or country(see "Control panel overview" on page 20).

Understanding the status LED

Toner / WPS / Power / Eco LED

Status			Description
 (Toner LED)	Orange	Blinking	Small amount of toner is left in the cartridge. The estimated cartridge life of toner is close. Prepare a new cartridge for replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 46).
		On	- A toner cartridge has almost reached its estimated cartridge life^a. It is recommended to replace the toner cartridge (see "Replacing the toner cartridge" on page 48). - The toner cartridge is not installed or the wrong toner cartridge is installed (see "Replacing the toner cartridge" on page 48).
		Off	All toner cartridges are at normal capacity.
 (WPS LED) ^b	Blue	Blinking	The machine is connecting to a wireless network.
		On	The machine is connected to a wireless network (see "Using the WPS Settings menu" on page 108).
		Off	The machine is disconnected from a wireless network.
 (Power/Wake Up LED)	Blue	On	The machine is in power save mode.
		Off	The machine is in ready mode or the machine's power is off.
Eco	Blue	On	Eco mode is on (see "Eco printing" on page 38).
		Off	Eco mode is off.

a. Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19798. The number of pages may be affected by operating environment, printing interval, graphics, media type and media size. Some amount of toner may remain in the cartridge even when orange LED is on and the printer stops printing.

b. Wireless model only (see "Features by model" on page 6).



5. Appendix

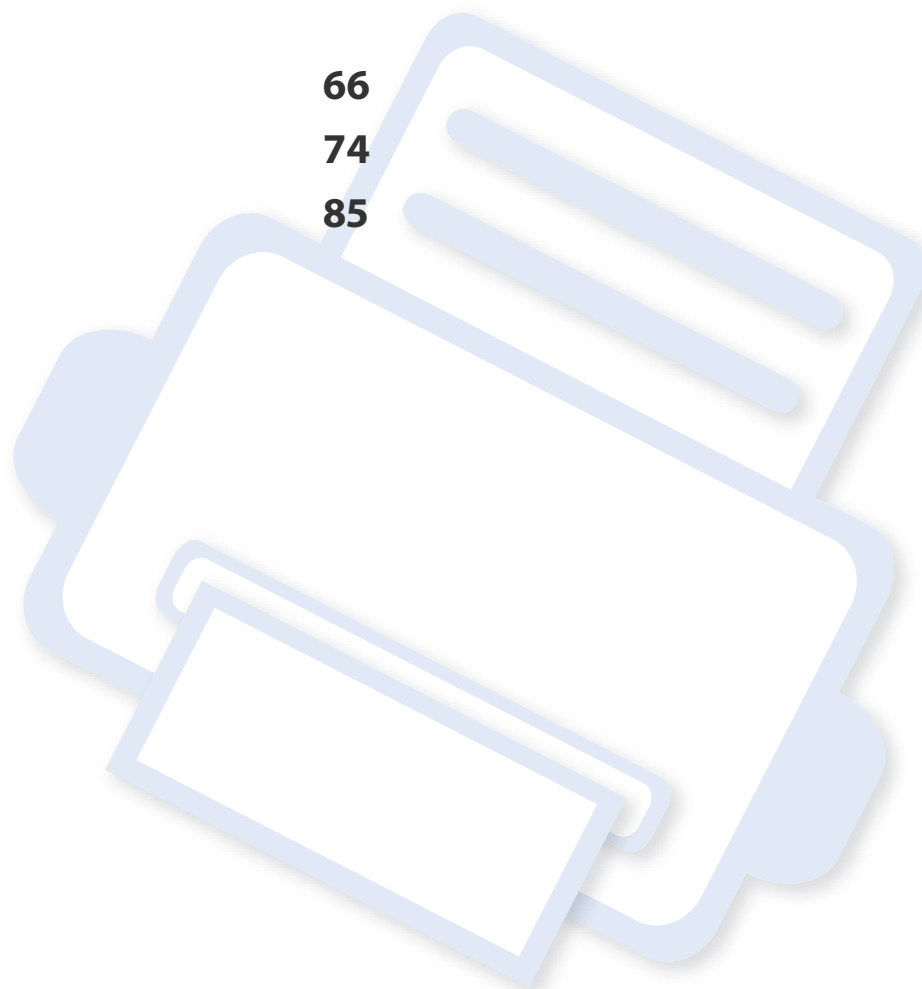
This chapter provides product specifications and information concerning applicable regulations.

- **Specifications**
- **Regulatory information**
- **Copyright**

66

74

85



Specifications

General specifications



These specifications are subject to change without notice. To see additional specifications and information about changes to the specifications, please visit www.samsung.com.

Items		Description
Dimension ^a	Width x Length x Height	382 x 309 x 211 mm (15.0 x 12.2 x 8.3 inches)
Weight ^a	Machine with consumables	9.84 kg (21.69 lbs)
Noise Level ^{bc}	Ready mode	Background noise level
	Print mode	• Color printing: Less than 45 dB (A) • Black and white printing: Less than 48 dB (A)
Temperature	Operation	10 to 30°C (50 to 86°F)
	Storage (packed)	-20 to 40°C (-4 to 104°F)
Humidity	Operation	20 to 80% RH
	Storage (packed)	10 to 90% RH
Power rating ^d	110 volt models	AC 110 - 127 V
	220 volt models	AC 220 - 240 V

Specifications

Items		Description
Power consumption ^e	Average operating mode	Less than 290W
	Ready mode	Less than 60 W
	Power save mode	Less than 1.4 W
	Power off mode ^f	0.45 W
	Network Standby Mode (All Port Activation)	Less than 1.35 W
Wireless ^g	Module	SPW-B43143S

- a. Dimensions and weight are measured without other accessories.
- b. Sound Pressure Level, ISO 7779. Configuration tested: basic machine installation, A4 paper, simplex printing.
- c. China only: If the equipment's noise is louder than 63 db (A), the equipment should be placed in region of relatively independent advice.
- d. See the rating label on the machine for the correct voltage (V), frequency (hertz) and type of current (A) for your machine.
- e. The power consumption may be affected by the machine’s status, setting conditions, operating environment, and measuring equipment and method the country uses.
- f. Power consumption can be completely avoided only when power cable is not connected.
- g. Wireless model only (see "Features by model" on page 6).

Specifications

Print media specifications

Type	Size	Dimensions	Print media weight/Capacity ^a
			Tray
Plain paper	Letter	216 x 279 mm (8.5 x 11 inches)	60 to 85 g/m ² (16 to 23 lbs bond) • 150 sheets of 75 g/m ² (20 lbs bond) • Maximum stack height : 15.5mm (0.6 inches)
	Legal	216 x 356 mm (8.5 x 14 inches)	
	US Folio	216 x 330 mm (8.5 x 13 inches)	
	A4	210 x 297 mm (8.27 x 11.69 inches)	
	Oficio	216 x 343 mm (8.5 x 13.5 inches)	
	JIS B5	182 x 257 mm (7.17 x 10.12 inches)	
	ISO B5	176 x 250 mm (6.93 x 9.84 inches)	
	Executive	184 x 267 mm (7.25 x 10.5 inches)	
	A5	148 x 210 mm (5.83 x 8.27 inches)	
	A6	105 x 148 mm (4.13 x 5.83 inches)	
Thick paper	Refer to the Plain paper section	Refer to the Plain paper section	86 to 120 g/m ² (23 to 32 lbs bond) • 5 sheets
Thin paper	Refer to the Plain paper section	Refer to the Plain paper section	60 to 70 g/m ² (16 to 19 lbs bond) • 150 sheets of 60 g/m ² (16 lbs bond) • Maximum stack height : 15.5mm (0.6 inches)

Specifications

Type	Size	Dimensions	Print media weight/Capacity ^a
			Tray
Cotton	Refer to the Plain paper section	Refer to the Plain paper section	75 to 90 g/m ² (20 to 24 lbs bond) 150 sheets of 75 g/m² (20 lbs bond) - Maximum stack height : 15.5mm (0.6 inches)
Colored, Pre-printed, Recycled	Refer to the Plain paper section	Refer to the Plain paper section	60 to 85 g/m ² (16 to 24 lbs bond) 150 sheets of 75 g/m² (20 lbs bond) - Maximum stack height : 15.5mm (0.6 inches)
Labels ^b	Letter, Legal, Oficio, US Folio, A4, JIS B5, ISO B5, Executive, A5	Refer to the Plain paper section	120 to 150 g/m ² (32 to 40 lbs bond) 5 sheets
Card stock	Letter, Legal, Oficio, US Folio, A4, JIS B5, ISO B5, Executive, A5, Postcard 4x6	Refer to the Plain paper section	121 to 163 g/m ² (32 to 43 lbs bond) 5 sheets
Bond paper	Refer to the Plain paper section	Refer to the Plain paper section	105 to 120 g/m ² (28 to 32 lbs bond) 10 sheets
Archive	Refer to the Plain paper section	Refer to the Plain paper section	70 to 90 g/m ² (18.6 to 24 lbs bond) 100 sheets - Maximum stack height : 15.5mm (0.6 inches)

Specifications

Type	Size	Dimensions	Print media weight/Capacity ^a
			Tray
Glossy Photo, Matte Photo	Letter, A4, Postcard 4x6	Refer to the Plain paper section	111 to 220 g/m ² (30 to 58 lbs bond) • 1 sheets
Minimum size (custom)		105 x 148.5 mm (4.13 x 5.85 inches)	60 to 120 g/m ² (16 to 32 lbs bond)
Maximum size (custom)		216 x 356 mm (8.5 x 14 inches)	

- a. Maximum capacity may differ depending on media weight, thickness, and environmental conditions.
b. The smoothness of the labels used in this machine is 100 to 250 (sheffield). This means the numeric level of smoothness.

 If media weight is over 120 g/m² (32 lbs bond), load a paper into the tray one by one.

Specifications

System requirements

Microsoft® Windows®

Operating system	Requirement (recommended)		
	CPU	RAM	free HDD space
Windows® XP Service Pack 3	Intel® Pentium® III 1 GHz (Pentium IV 2 GHz)	512 MB (1 GB)	1.5 GB
Windows Server® 2003	Intel® Pentium® III 1 GHz (Pentium IV 2 GHz)	512 MB (1 GB)	1.5 GB
Windows Server® 2008	Intel® Pentium® IV 1 GHz (Pentium IV 2 GHz)	512 MB (2 GB)	10 GB
Windows Vista®	Intel® Pentium® IV 3 GHz	512 MB (1 GB)	15 GB
Windows® 7	Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher	1 GB (2 GB)	16 GB
	• Support for DirectX® 9 graphics with 128 MB memory (to enable the Aero theme). • DVD-R/W Drive		
Windows Server® 2008 R2	Intel® Pentium® IV 1.4 GHz (x64) processors (2 GHz or faster)	512 MB (2 GB)	10 GB
Windows® 8 Windows® 8.1	Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher	2 GB (2 GB)	20 GB
	• Support for DirectX® 9 graphics with 128 MB memory (to enable the Aero theme). • DVD-R/W Drive		
Windows Server® 2012	Intel® Pentium® IV 1.4 GHz (x64) processors (2 GHz or faster)	512 MB (2 GB)	32GB
Windows Server® 2012 R2			



- Internet Explorer 6.0 or higher is the minimum requirement for all Windows operating systems.
- Users who have administrator rights can install the software.
- **Windows Terminal Services** is compatible with your machine.

Specifications

Mac

Operating system	Requirements (Recommended)		
	CPU	RAM	Free HDD space
Mac OS X 10.6	• Intel® processors	1 GB (2 GB)	1 GB
Mac OS X 10.7-10.10	• Intel® processors	2 GB	4 GB

Linux

Items	Requirements
Operating system	Redhat® Enterprise Linux 5, 6,7 Fedora 12, 13, 14, 15, 16, 17, 18, 19, 20 OpenSuSE® 11.2, 11.3, 11.4, 12.1, 12.2, 12.3, 13.1 Ubuntu 10.04, 10.10, 11.04, 11.10, 12.04, 12.10, 13.04, 13.10, 14.04 SuSE Linux Enterprise Desktop 10, 11 Debian 6, 7 Mint 13, 14, 15, 16, 17
CPU	Pentium IV 2.4GHz (Intel Core™2)
RAM	512 MB (1 GB)
Free HDD space	1 GB (2 GB)

Specifications

Network environment



Network and wireless models only (see "Features by model" on page 6).

You need to set up the network protocols on the machine to use it as your network machine. The following table shows the network environments supported by the machine.

Items	Specifications
Network interface	- Ethernet 10/100 Base-TX Wired Lan 802.11b/g/n Wireless LAN
Network operating system	- Windows® XP Service Pack 3, Windows Server® 2003, Windows Vista®, Windows® 7, Windows® 8, Windows Server® 2008 R2 - Various Linux OS - Mac OS X 10.6 - 10.10
Network protocols	- TCP/IPv4 - DHCP, BOOTP - DNS, WINS, Bonjour, SLP, UPnP - Standard TCP/IP Printing (RAW), LPR, IPP, WSD - SNMPv 1/2/3, HTTP - TCP/IPv6 (DHCP, DNS, RAW, LPR, SNMPv 1/2/3, HTTP)
Wireless security	- Authentication: Open System, Shared Key, WPA Personal, WPA2 Personal (PSK) - Encryption: WEP64, WEP128, TKIP, AES

Regulatory information

This machine is designed for a normal work environment and certified with several regulatory statements.

Laser safety statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1 : 2007.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance or prescribed service condition.

Warning

Never operate or service the printer with the protective cover removed from laser/scanner assembly. The reflected beam, although invisible, can damage your eyes.

When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:



CAUTION - CLASS 3B. INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.

GEFAHREN - KLASSE 3B: UNSICHTBARE LASERSTRAHLUNG WENN GEOFFNET. STRAHLENAUSSETZUNG VERMEIDEN.

ATTENTION - CLASSE 3B. RADIATION LASER INVISIBLE EN CAS D'OUVERTURE. EVITER L'EXPOSITION AU FAISCEAU.

ATTENZIONE - CLASSE 3B. RADIZIONI LASER INVISIBILI CON IL DISPOSITIVO APERTO. EVITARE L'ESPOSIZIONE AL RAGGIO.

PRECAUCIÓN - RADIACIÓN LÁSER INVISIBLE DE CLASE 3B PRESENTE AL ABRIR. EVITE LA EXPOSICIÓN AL HAZ.

PERIGO - CLASSE 3B. RADIÇÃO LASER INVISÍVEL AO ABRIR. EVITE EXPOSIÇÃO DIRECTA AO FEIXE.

GEVAAR - KLASSE 3B. ONZICHTBARE LASERSTRALING INDIEN GEOPEND. VERMIJD BLOOTSTELLING AAN DE STRAAL.

ADVARSEL - KLASSE 3B. USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL - KLASSE 3B. USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING - KLASS 3B OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.

VAROITUS - LUOKAN 3B NÄKYMÄTTÖMÄLLE LASER-SÄTEILYÄ AVATTUNA. VÄLTÄ ALTISTUMISTA SÄTEELLE.

注意 - CLASS 3B. 严禁打开，以免被不可见激光辐射泄漏灼伤

주의 - 열리면 등급 3B 비가시 레이저 방사선 이 방출됩니다. 광선에 노출을 피하십시오.

Regulatory information

Ozone safety



This product's ozone emission rate is under 0.1 ppm. Because ozone is heavier than air, keep the product in a place with good ventilation.

Perchlorate warning

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.

Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate. (U.S.A. only)

Power saver



This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use.

When the printer does not receive data for an extended period of time, power consumption is automatically lowered.

ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

For more information on the ENERGY STAR program see <http://www.energystar.gov>

For ENERGY STAR certified models, the ENERGY STAR label will be on your machine. Check if your machine is ENERGY STAR certified.

Recycling



Recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Regulatory information

Correct disposal of this product (Waste electrical & electronic equipment)

(Applicable in countries with separate collection systems)



This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other s of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

(The United States of America only)

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

State of California Proposition 65 Warning (US Only)

The California Safe Drinking Water and Toxic Enforcement Act requires the Governor of California to publish a list of chemicals known to the State of California to cause cancer or reproductive toxicity and requires businesses to warn of potential exposure to such chemicals.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
This appliance can cause low-level exposure to the chemicals, which can be minimized by operating the appliance in a well ventilated area.

Regulatory information

Radio frequency emissions

FCC information to the user

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or experienced radio TV technician for help.



Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Canadian radio interference regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par l'Industrie et Sciences Canada.

RFID (Radio Frequency Interface Device)

RFID operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. (U.S.A., France, Taiwan only)

Regulatory information

United States of America

Federal Communications Commission (FCC)

Intentional emitter per FCC Part 15

Low power, Radio LAN devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

The FCC has set a general guideline of 20 cm (8 inches) separation between the device and the body, for use of a wireless device near the body (this does not include extremities). This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your printer, is well below the RF exposure limits as set by the FCC.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

FCC Statement for Wireless LAN use:



While installing and operating this transmitter and antenna combination the radio frequency exposure limit of 1 mW/cm² may be exceeded at distances close to the antenna installed. Therefore, the user must maintain a minimum distance of 20 cm from the antenna at all times. This device cannot be collocated with another transmitter and transmitting antenna.

Regulatory information

Replacing the Fitted Plug (for UK Only)

Important

The mains lead for this machine is fitted with a standard (BS 1363) 13 amp plug and has a 13 amp fuse. When you change or examine the fuse, you must re-fit the correct 13 amp fuse. You then need to replace the fuse cover. If you have lost the fuse cover, do not use the plug until you have another fuse cover.

Contact the people from you purchased the machine.

The 13 amp plug is the most widely used in the UK and should be suitable. However, some buildings (mainly old ones) do not have normal 13 amp plug sockets. You need to buy a suitable plug adaptor. Do not remove the moulded plug.



If you cut off the moulded plug, get rid of it straight away.

You cannot rewire the plug and you may receive an electric shock if you plug it into a socket.

Important warning:

You must earth this machine.

The wires in the mains lead have the following color code:



- **Green and Yellow:** Earth
- **Blue:** Neutral
- **Brown:** Live

If the wires in the mains lead do not match the colors marked in your plug, do the following:

You must connect the green and yellow wire to the pin marked by the letter “E” or by the safety ‘Earth symbol’ or colored green and yellow or green.

You must connect the blue wire to the pin which is marked with the letter “N” or colored black.

You must connect the brown wire to the pin which is marked with the letter “L” or colored red.

You must have a 13 amp fuse in the plug, adaptor, or at the distribution board.

Regulatory information

Declaration of conformity (European countries)

Approvals and Certifications

Hereby, Samsung Electronics, declares that this [C43x series] is in compliance with the essential requirements and other relevant provisions of Low Voltage Directive (2006/95/EC), EMC Directive (2004/108/EC).



Hereby, Samsung Electronics, declares that this [C43xW series] is in compliance with the essential requirements and other relevant provisions of R&TTE Directive 1999/5/EC.

The declaration of conformity may be consulted at **www.samsung.com**, go to Support > Download center and enter your printer (MFP) name to browse the EuDoC.

January 1, 1995: Council Directive 2006/95/EC Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: Council Directive 2004/108/EC, approximation of the laws of the Member States related to electromagnetic compatibility.

March 9, 1999: Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. A full declaration, defining the relevant Directives and referenced standards can be obtained from your Samsung Electronics Co., Ltd. representative.

EC Certification

Certification to 1999/5/EC Radio Equipment & Telecommunications Terminal Equipment Directive (FAX)

This Samsung product has been self-certified by Samsung for pan-European single terminal connection to the analogue public switched telephone network (PSTN) in accordance with Directive 1999/5/EC. The product has been designed to work with the national PSTNs and compatible PBXs of the European countries:

In the event of problems, you should contact the Euro QA Lab of Samsung Electronics Co., Ltd. in the first instance.

The product has been tested against TBR21. To assist in the use and application of terminal equipment which complies with this standard, the European Telecommunication Standards Institute (ETSI) has issued an advisory document (EG 201 121) which contains notes and additional requirements to ensure network compatibility of TBR21 terminals. The product has been designed against, and is fully compliant with, all of the relevant advisory notes contained in this document.

Regulatory information

European radio approval information (for products fitted with EU-approved radio devices)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz band, may be present (embedded) in your printer system which is intended for home or office use. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.



Wireless devices that may be in your system are only qualified for use in the European Union or associated areas if a CE mark with a Notified Body Registration Number and the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in your printer is well below the RF exposure limits as set by the European Commission through the R&TTE directive.

European states qualified under wireless approvals:

EU countries

European states with restrictions on use:

EU

In France, this equipment may only be used indoors.

EEA/EFTA countries

No limitations at this time

Regulatory compliance statements

Wireless guidance

Low power, Radio LAN devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

The power output of the wireless device or devices that may be embedded in your printer is well below the RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your printer) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Regulatory information

As a general guideline, a separation of 20 cm (8 inches) between the wireless device and the body, for use of a wireless device near the body (this does not include extremities) is typical. This device should be used more than 20 cm (8 inches) from the body when wireless devices are on and transmitting.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11 (also known as wireless Ethernet) and Bluetooth communication devices are examples of devices that provide wireless communication.



In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.



Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.



If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.



Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer Technical Support for additional information.

Taiwan only

警告

本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Regulatory information

Taiwan only

低功率電波輻射性電機管理辦法

- 第十二條** 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
- 第十四條** 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Russia / Kazakhstan / Belarus only



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«САМСУНГ ЭЛЕКТРОНИКС КЗ ЭНД ЦЕНТРАЛ ЭЙЖА» ЖШС
Заңды мекен-жайы: Қазақстан Республикасы, Алматы қ., Әл-Фараби даңғылы, 36, 3,4-қабаттар

Germany only

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäß BildscharbV vorgesehen.

Turkey only

- Bu ürünün ortalama yaşam süresi 7 yıl, garanti süresi 2 yıldır.

Thailand only

This telecommunication equipment conforms to NTC technical requirement.

Regulatory information

China only

回收和再循环

为了保护环境，我公司已经为废弃的产品建立了回收和再循环系统。
我们会为您无偿提供回收同类废旧产品的服务。
当您要废弃您正在使用的产品时，请您及时与授权耗材更换中心取得联系，
我们会及时为您提供服务。

Website: [http://www.samsung.com/cn/support/location/
supportServiceLocation.do?page=SERVICE.LOCATION](http://www.samsung.com/cn/support/location/supportServiceLocation.do?page=SERVICE.LOCATION)

中国能效标识

型号	能效等级	典型能耗 (kWh)
Xpress C430	1	0.98
Xpress C430W	1	0.98

依据国家标准 GB 21521-2014

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
塑料	○	○	○	○	○	○
金属 (机箱)	X	○	○	○	○	○
印刷电路部件 (PCA)	X	○	○	○	○	○
电缆 / 连接器	X	○	○	○	○	○
电源设备	X	○	○	○	○	○
电源线	X	○	○	○	○	○
机械部件	X	○	○	○	○	○
卡盒部件	X	○	○	○	○	○
定影部件	X	○	○	○	○	○
扫描仪部件 - CCD (如果有)	X	X	○	○	○	○
扫描仪部件 - 其它 (如果有)	X	○	○	○	○	○
印刷电路板部件 (PBA)	X	○	○	○	○	○
墨粉	○	○	○	○	○	○
滚筒	○	○	○	○	○	○

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QR code

The software included in this product contains open source software. You may obtain the complete corresponding source code for a period of three years after the last shipment of this product by sending an email to <mailto:oss.request@samsung.com>. It is also possible to obtain the complete corresponding source code in a physical medium such as a CD-ROM; a minimal charge will be required.

The following URL https://opensource.samsung.com/opensource/Samsung_C43x_Series/seq/49 leads to the download page of the source code made available and open source license information as related to this product. This offer is valid to anyone in receipt of this information.

User's Guide

Samsung Printer *Xpress*

C43x series

C43xW series

ADVANCED

This guide provides information about installation, advanced configuration, operation and troubleshooting on various OS environments.

Some features may not be available depending on models or countries.

BASIC

This guide provides information concerning installation, basic operation and troubleshooting on windows.



ADVANCED



1. Software Installation

Installation for Mac	90
Reinstallation for Mac	91
Installation for Linux	92
Reinstallation for Linux	93



2. Using a Network-Connected

Useful network programs	95
Wired network setup	96
Installing driver over the network	99
IPv6 configuration	104
Wireless network setup	107
Samsung Mobile Print	124
Using the NFC feature	125
Mopria™	128

AirPrint	130
Samsung Cloud Print	132
Google Cloud Print™	134



3. Special Features

Altitude adjustment	138
Printing features	139



4. Useful Management Tools

Accessing management tools	152
Easy Capture Manager	153
Samsung Easy Color Manager	154
Easy Eco Driver	155
Using Samsung Printer Center	156
Using SyncThru™ Web Service	159
Using Samsung Easy Printer Manager	162
Using Samsung Printer Status	164
Using Samsung Printer Experience	166



5. Troubleshooting

Paper feeding problems	173
Power and cable connecting problems	174
Printing problems	175
Printing quality problems	179
Operating system problems	187



1. Software Installation

This chapter provides instructions for installing essential and helpful software for use in an environment where the machine is connected via a cable. A locally connected machine is a machine directly attached to your computer using a USB cable. If your machine is attached to a network, skip the following steps below and go on to installing a network connected machine's driver (see Installing driver over the network⁹⁹).

- **Installation for Mac** 90
- **Reinstallation for Mac** 91
- **Installation for Linux** 92
- **Reinstallation for Linux** 93



- If you are a Windows OS user, refer to the "Installing the driver locally" on page 23 for installing the machine's driver.
- Only use a USB cable no longer than 3 meter (118 inches).

Installation for 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.
- 3 Select the CD-ROM volume that appears on **Finder**.
- 4 Double-click the **Install Software** icon.
- 5 Read the license agreement and check installation agreement button.
- 6 Click **Next** and then follow the instructions in the installation window.



To install the fax driver:

- a Open the **Applications** folder > **Samsung** > **Fax Queue Creator**.
- b Your machine appears on the **Printer List**
- c Select machine to use and click **Create** button

Reinstallation for Mac

If the printer driver does not work properly, uninstall the driver and reinstall it.

- 1 Open the **Applications** folder > **Samsung** > **Printer Software Uninstaller**.
- 2 To uninstall printer software, click **Continue**.
- 3 Check the program you want to delete and click **Uninstall**.
- 4 Enter the password and click **OK**.
- 5 After the uninstallation is finished, click **Close**.



If a machine has already been added, delete it from the **Print Setup Utility** or **Print & Fax**.

Installation for 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).

Installing the Unified Linux Driver



You must log in as a super user (root) to install the machine software. If you are not a super user, ask your system administrator.

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

- 8 When installation finished, launch printing utility(Go to **System** > **Administration** > **Printing** or execute "**system-config-printer**" command in Terminal program).
- 9 Click **Add** button.
- 10 Select your printer.
- 11 Click **Forward** button and add it to your system.

Reinstallation for Linux

If the printer driver does not work properly, uninstall the driver and reinstall it.

- 1 Open **Terminal** program.
- 2 Move to **uld** folder extracted from **Unified Linux Driver** package.
- 3 Execute "**./uninstall.sh**" command (If you're not logged in as root, execute the command with "**sudo**" as "**sudo ./uninstall.sh**")
- 4 Proceed with uninstallation.



2. Using a Network-Connected Machine

This chapter gives you step-by-step instructions for setting up a network connected machine and software.

• Useful network programs	95
• Wired network setup	96
• Installing driver over the network	99
• IPv6 configuration	104
• Wireless network setup	107
• Samsung Mobile Print	124
• Using the NFC feature	125
• Mopria™	128
• AirPrint	130
• Samsung Cloud Print	132
• Google Cloud Print™	134



Supported optional devices and features may differ according to your model (see "Features by model" on page 6).

Useful network programs

There are several programs available to setup the network settings easily in a network environment. For the network administrator especially, managing several machines on the network is possible.



- Before using the programs below, set the IP address first.
- Some features and optional goods may not be available depending on model or country (see "Features by model" on page 6).

SyncThru™ Web Service

The web server embedded on your network machine allows you to do the following tasks (see "Using SyncThru™ Web Service" on page 159).

- Check the supplies information and status.
- Customize machine settings.
- Set the email notification option. When you set this option, the machine status (toner cartridge shortage or machine error) will be sent to a certain person's email automatically.
- Configure the network parameters necessary for the machine to connect to various network environments.

SetIP wired network setup

This utility program allows you to select a network interface and manually configure the IP addresses for use with the TCP/IP protocol.

- See "IPv4 configuration using SetIP (Windows)" on page 96.
- See "IPv4 configuration using SetIP (Mac)" on page 97.
- See "IPv4 configuration using SetIP (Linux)" on page 97.



- If your device does not support a network connection, it will not be able to use this feature (see "Rear view" on page 19).
- TCP/IPv6 is not supported by this program.

Wired network setup

Printing a network configuration report

You can print **Network Configuration Report** from the machine's control panel that will show the current machine's network settings. This will help you to set up a network.

- **The machine does not have the display screen:** Press the ⊗ (Cancel or Stop/Clear) button for two seconds on the control panel.

Using this **Network Configuration Report**, you can find your machine's MAC address and IP address.

For example:

- MAC Address: 00:15:99:41:A2:78
- IP Address: 169.254.192.192

Setting IP address



- If your device does not support a network connection, it will not be able to use this feature (see "Rear view" on page 19).
- TCP/IPv6 is not supported by this program.

First, you have to set up an IP address for network printing and managements. In most cases a new IP address will be automatically assigned by a DHCP (Dynamic Host Configuration Protocol) server located on the network.

IPv4 configuration using SetIP (Windows)

Before using the SetIP program, disable the computer firewall from **Control Panel > Security Center > Windows Firewall**.



The following instructions may differ for your model.

- 1 Download the software from the Samsung website then unpack and install it: (<http://www.samsung.com> > find your product > Support or Downloads).
- 2 Follow the instructions in the installation window.
- 3 Connect your machine to the network with a network cable.
- 4 Turn on the machine.
- 5 From the Windows **Start** menu, select **All Programs > Samsung Printers > SetIP > SetIP**.
- 6 Click the ⚙ icon (third from left) in the SetIP window to open the TCP/IP configuration window.

Wired network setup

- 7 Enter the machine's new information into the configuration window. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.



Find the machine's MAC address from the **Network Configuration Report** (see "Printing a network configuration report" on page 96) and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.

- 8 Click **Apply**, and then click **OK**. The machine will automatically print the **Network Configuration Report**. Confirm that all the settings are correct.

IPv4 configuration using SetIP (Mac)

Before using the SetIP program, disable the computer firewall from **System Preferences > Security** (or **Security & Privacy**) > **Firewall**.

- 1 Download the software from the Samsung website then unpack and install it: (<http://www.samsung.com> > find your product > Support or Downloads).
- 2 Turn on the machine.
- 3 Run downloaded **SetIP** application

- 4 Click the  icon (third from left) in the SetIP window to open the TCP/IP configuration window.

- 5 Enter the machine's new information into the configuration window. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.



Find the machine's MAC address from the **Network Configuration Report** (see "Printing a network configuration report" on page 96) and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.

- 6 Click **Apply**, and then click **OK**. The machine will automatically print the **Network Configuration Report**. Confirm that all the settings are correct.

IPv4 configuration using SetIP (Linux)

Before using the SetIP program, disable the computer firewall from **System Preferences** or **Administrator**.



The following instructions may vary from your model or operating systems.

Wired network setup

- 1 Download SetIP program from Samsung web site and extract it.
- 2 Double-click the **SetIPApplet.html** file in **cdroot/Linux/noarch/at_opt/share/utils** folder.
- 3 Click to open the TCP/IP configuration window.
- 4 Enter the machine's new information into the configuration window. In a corporate intranet, you may need to have this information assigned by a network manager before proceeding.



Find the machine's MAC address from the **Network Configuration Report** (see "Printing a network configuration report" on page 96) and enter it without the colons. For example, 00:15:99:29:51:A8 becomes 0015992951A8.

- 5 The machine will automatically print the **Network Configuration Report**.

Installing driver over the network



- Some features and optional goods may not be available depending on model or country (see "Features by model" on page 6).
- The machine that does not support the network interface, it will not be able to use this feature (see "Rear view" on page 19).
- You can install the printer driver and software when you insert the software CD into your CD-ROM drive.
For windows, select the printer driver and software in the **Select Software to Install** window.

Windows



The firewall software might be blocking network communication. Before connecting the device to the network, disable the computer's firewall.

- 1** Make sure that the machine is connected to the network and powered on. Also, your machine's IP address should have been set (see "Setting IP address" on page 96).
- 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 **Network** on the **Printer Connection Type** screen Then, click **Next**.
- 5** Follow the instructions in the installation window.

Installing driver over the network

From the Windows 8 Start Screen



- The V4 driver is automatically downloaded from the Windows Update if your computer is connected to the Internet. If not, you can manually download the V4 driver from Samsung website, <http://www.samsung.com> > find your product > Support or downloads.
- You can download **Samsung Printer Experience** app from the **Windows Store**. You need have a Microsoft account to use the Windows Store.
 - a From **Charms**, select **Search**.
 - b Click **Store**.
 - c Search and click **Samsung Printer Experience**.
 - d Click **Install**.
- If you install the driver using the supplied software CD, V4 driver is not installed. If you want to use the V4 driver in the **Desktop** screen, you can download from the Samsung website, <http://www.samsung.com> > find your product > Support or downloads.
- If you want to install Samsung's printer management tools, you need to install them using the supplied software CD.

- 1 Make sure that the machine is connected to the network and powered on. Also, your machine's IP address should have been set (see "Setting IP address" on page 96).
- 2 From **Charms**, select **Settings** > **Change PC settings** > **Devices**.
- 3 Click **Add a device**.
Discovered machines will be shown on the screen.

4

Click the model name or host name you wish to use.



You can print a Network Configuration Report from the machine's control panel that will show the current machine's host name (see "Printing a network configuration report" on page 116).

5

The driver is automatically installed from the **Windows Update**.

Silent installation Mode

Silent installation mode is an installation method that does not require any user intervention. Once you start the installation, the machine driver and software are automatically installed on you computer. You can start the silent installation by typing **/s** or **/S** in the command window.

Command-line Parameters

Following table shows commands that can be used in the command window.



Following command-line are effective and operated when command is used with **/s** or **/S**. But **/h**, **/H** or **/?** are exceptional commands that can be operated solely.