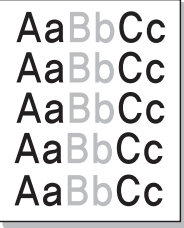
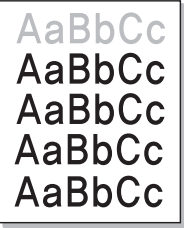
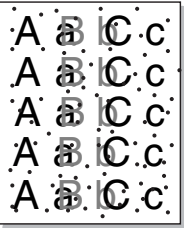


# Printing problems

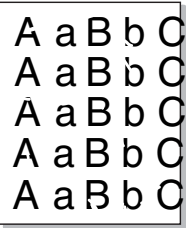
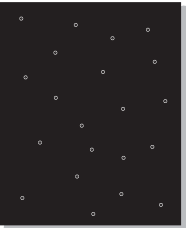
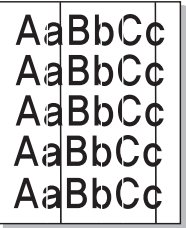
Condition	Possible cause	Suggested solutions
<b>Before printing, the machine emits vapor near the output tray.</b>	Using damp paper can cause vapor during printing.	This is not a problem. Just keep printing.
<b>The machine does not print special-sized paper, such as billing paper.</b>	Paper size and paper size setting do not match.	Set the correct paper size in the <b>Custom</b> in <b>Paper</b> tab in <b>Printing Preferences</b> .
<b>The printed billing paper is curled.</b>	The paper type setting does not match.	Change the printer option and try again. Go to <b>Printing Preferences</b> , click <b>Paper</b> tab, and set type to <b>Thick</b> .

# Printing quality problems

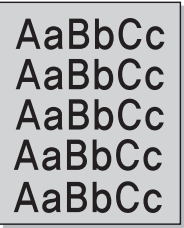
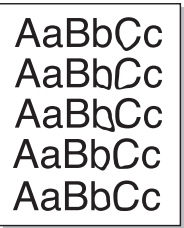
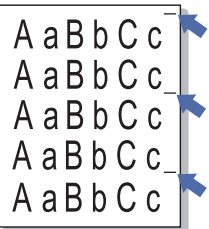
If the inside of the machine is dirty or paper has been loaded improperly, there might be a reduction in print quality. See the table below to clear the problem.

Condition	Suggested Solutions
<p data-bbox="51 357 322 389"><b>Light or faded print</b></p> 	<ul data-bbox="506 357 2188 676" style="list-style-type: none"><li>• If a vertical white streak or faded area appears on the page, the toner supply is low. Install a new toner cartridge.</li><li>• The paper may not meet paper specifications; for example, the paper may be too moist or rough.</li><li>• If the entire page is light, the print resolution setting is too low or the toner save mode is on. Adjust the print resolution and turn the toner save mode off. See the help screen of the printer driver.</li><li>• A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. Clean the inside of your machine.</li><li>• The surface of the LSU part inside the machine may be dirty. Clean the inside of your machine. If these steps do not correct the problem, contact a service representative.</li></ul>
<p data-bbox="51 708 472 820"><b>The top half of the paper is printed lighter than the rest of the paper</b></p> 	<p data-bbox="506 708 1249 740">The toner might not adhere properly to this type of paper.</p> <ul data-bbox="506 756 2152 804" style="list-style-type: none"><li>• Change the printer option and try again. Go to <b>Printing Preferences</b>, click the <b>Paper</b> tab, and set the paper type to <b>Recycled</b>.</li></ul>
<p data-bbox="51 1134 232 1166"><b>Toner specks</b></p> 	<ul data-bbox="506 1134 1697 1270" style="list-style-type: none"><li>• The paper may not meet specifications; for example, the paper may be too moist or rough.</li><li>• The transfer roller may be dirty. Clean the inside of your machine.</li><li>• The paper path may need cleaning. Contact a service representative.</li></ul>

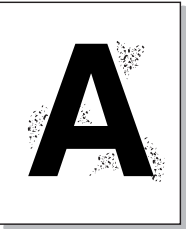
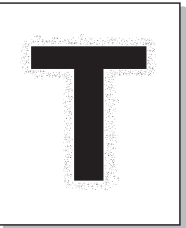
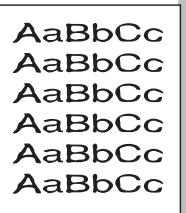
# Printing quality problems

Condition	Suggested Solutions
<p><b>Dropouts</b></p> 	<p>If faded areas, generally rounded, occur randomly on the page:</p> <ul style="list-style-type: none"><li>• A single sheet of paper may be defective. Try reprinting the job.</li><li>• The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper.</li><li>• The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper.</li><li>• Change the printer option and try again. Go to <b>Printing Preferences</b>, click the <b>Paper</b> tab, and set type to <b>Thick</b>.</li></ul> <p>If these steps do not correct the problem, contact a service representative.</p>
<p><b>White Spots</b></p> 	<p>If white spots appear on the page:</p> <ul style="list-style-type: none"><li>• The paper is too rough and a lot of dirt from paper falls to the inner components within the machine, so the transfer roller may be dirty. Clean the inside of your machine.</li><li>• The paper path may need cleaning. Clean the inside of your machine.</li></ul> <p>If these steps do not correct the problem, contact a service representative.</p>
<p><b>Vertical lines</b></p> 	<p>If black vertical streaks appear on the page:</p> <ul style="list-style-type: none"><li>• The surface (drum part) of the toner cartridge inside the machine has probably been scratched. Remove the toner cartridge and install a new one.</li></ul> <p>If white vertical streaks appear on the page:</p> <ul style="list-style-type: none"><li>• The surface of the LSU part inside the machine may be dirty. Clean the inside of your machine. If these steps do not correct the problem, contact a service representative.</li></ul>

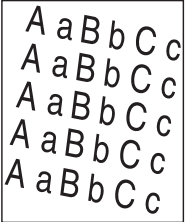
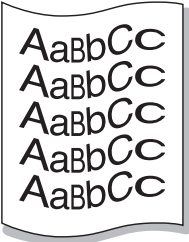
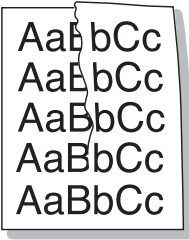
# Printing quality problems

Condition	Suggested Solutions
<p><b>Black background</b></p> 	<p>If the amount of background shading becomes unacceptable:</p> <ul style="list-style-type: none"><li>• Change to a lighter weight paper.</li><li>• Check the environmental conditions: very dry conditions or a high level of humidity (higher than 80% RH) can increase the amount of background shading.</li><li>• Remove the old toner cartridge and install a new one.</li><li>• Thoroughly redistribute the toner (see "Redistributing toner" on page 49).</li></ul>
<p><b>Toner smear</b></p> 	<ul style="list-style-type: none"><li>• Clean the inside of the machine.</li><li>• Check the paper type and quality.</li><li>• Remove the toner cartridge and install a new one.</li></ul>
<p><b>Vertical repetitive defects</b></p> 	<p>If marks repeatedly appear on the printed side of the page at even intervals:</p> <ul style="list-style-type: none"><li>• The toner cartridge may be damaged. If you still have the same problem, remove the toner cartridge and, install a new one.</li><li>• Parts of the machine may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages.</li><li>• The fusing assembly may be damaged. Contact a service representative.</li></ul>

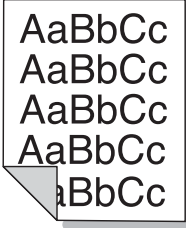
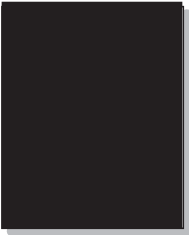
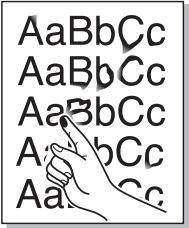
# Printing quality problems

Condition	Suggested Solutions
<p data-bbox="51 272 322 304"><b>Background scatter</b></p> 	<p data-bbox="506 272 1621 304">Background scatter results from bits of toner randomly distributed on the printed page.</p> <ul data-bbox="506 328 2190 679" style="list-style-type: none"><li data-bbox="506 328 2190 400">• The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture.</li><li data-bbox="506 416 2190 536">• If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. Or select <b>Thick Envelope</b> from the <b>Printing Preferences</b> window (see "Opening printing preferences" on page 40).</li><li data-bbox="506 552 2190 624">• If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or in <b>Printing Preferences</b>. Ensure the correct paper type is selected.</li><li data-bbox="506 639 1375 679">• If you are using a new toner cartridge, redistribute the toner first.</li></ul>
<p data-bbox="51 715 479 786"><b>Toner particles are around bold characters or pictures</b></p> 	<p data-bbox="506 715 1249 746">The toner might not adhere properly to this type of paper.</p> <ul data-bbox="506 770 2145 842" style="list-style-type: none"><li data-bbox="506 770 2145 842">• Change the printer option and try again. Go to <b>Printing Preferences</b>, click the <b>Paper</b> tab, and set the paper type to <b>Recycled</b>. Ensure the correct paper type is selected.</li></ul>
<p data-bbox="51 1098 353 1129"><b>Misformed characters</b></p> 	<ul data-bbox="506 1098 2069 1129" style="list-style-type: none"><li data-bbox="506 1098 2069 1129">• If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try different paper.</li></ul>

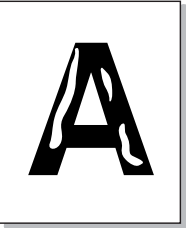
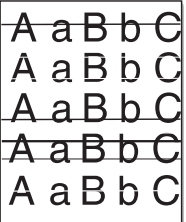
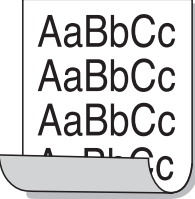
# Printing quality problems

Condition	Suggested Solutions
<p data-bbox="49 272 203 304"><b>Page skew</b></p> 	<ul data-bbox="506 272 1518 408" style="list-style-type: none"><li>• Ensure that the paper is loaded properly.</li><li>• Check the paper type and quality.</li><li>• Ensure that the guides are not too tight or too loose against the paper stack.</li></ul>
<p data-bbox="49 612 226 644"><b>Curl or wave</b></p> 	<ul data-bbox="506 612 1727 751" style="list-style-type: none"><li>• Ensure that the paper is loaded properly.</li><li>• Check the paper type and quality. Both high temperature and humidity can cause paper curl.</li><li>• Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.</li></ul>
<p data-bbox="49 967 315 999"><b>Wrinkles or creases</b></p> 	<ul data-bbox="506 967 1597 1106" style="list-style-type: none"><li>• Ensure that the paper is loaded properly.</li><li>• Check the paper type and quality.</li><li>• Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.</li></ul>

# Printing quality problems

Condition	Suggested Solutions
<p data-bbox="49 272 412 304"><b>Back of printouts are dirty</b></p> 	<ul data-bbox="504 272 1265 304" style="list-style-type: none"><li>• Check for leaking toner. Clean the inside of the machine.</li></ul>
<p data-bbox="49 639 405 671"><b>Solid color or black pages</b></p> 	<ul data-bbox="504 639 1668 778" style="list-style-type: none"><li>• The toner cartridge may not be installed properly. Remove the cartridge and reinsert it.</li><li>• The toner cartridge may be defective. Remove the toner cartridge and install a new one.</li><li>• The machine may require repairing. Contact a service representative.</li></ul>
<p data-bbox="49 986 219 1018"><b>Loose toner</b></p> 	<ul data-bbox="504 986 1254 1125" style="list-style-type: none"><li>• Clean the inside of the machine.</li><li>• Check the paper type and quality.</li><li>• Remove the toner cartridge and then, install a new one.</li></ul> <p data-bbox="504 1141 1635 1173">If the problem persists, the machine may require repair. Contact a service representative.</p>

# Printing quality problems

Condition	Suggested Solutions
<p data-bbox="49 272 271 300"><b>Character voids</b></p> 	<p data-bbox="506 272 1576 300">Character voids are white areas within parts of characters that should be solid black:</p> <ul data-bbox="506 328 2163 501" style="list-style-type: none"><li data-bbox="506 328 2163 395">• If you are using transparencies, try another type of transparency. Because of the composition of transparencies, some character voids are normal.</li><li data-bbox="506 416 1742 443">• You may be printing on the wrong surface of the paper. Remove the paper and turn it around.</li><li data-bbox="506 472 1128 501">• The paper may not meet paper specifications.</li></ul>
<p data-bbox="49 611 300 638"><b>Horizontal stripes</b></p> 	<p data-bbox="506 611 1189 638">If horizontally aligned black streaks or smears appear:</p> <ul data-bbox="506 667 1666 748" style="list-style-type: none"><li data-bbox="506 667 1666 694">• The toner cartridge may be installed improperly. Remove the cartridge and reinsert it.</li><li data-bbox="506 719 1666 748">• The toner cartridge may be defective. Remove the toner cartridge and install a new one.</li></ul> <p data-bbox="506 770 1677 798">If the problem persists, the machine may require repairing. Contact a service representative.</p>
<p data-bbox="49 951 114 978"><b>Curl</b></p> 	<p data-bbox="506 951 1397 978">If the printed paper is curled or paper does not feed into the machine:</p> <ul data-bbox="506 1007 2056 1088" style="list-style-type: none"><li data-bbox="506 1007 1599 1034">• Turn the stack of paper over in the tray. Also try rotating the paper 180° in the tray.</li><li data-bbox="506 1059 2056 1088">• Change the printer's paper option and try again. Go to <b>Printing Preferences</b>, click the <b>Paper</b> tab, and set type to <b>Thin</b>.</li></ul>



# Printing quality problems

Condition	Suggested Solutions
<ul style="list-style-type: none"><li>• <b>An unknown image repetitively appears on a few sheets</b></li><li>• <b>Loose toner</b></li><li>• <b>Light print or contamination occurs</b></li></ul>	<p>Your machine is probably being used at an altitude of 1,000 m (3,281 ft) or above.</p> <p>The high altitude may affect the print quality, such as loose toner or light imaging. Change the altitude setting for your machine (See "Altitude adjustment" on page 157).</p>

# Operating system problems

## Common Windows problems


Condition	Suggested solutions
<b>“File in Use” message appears during installation.</b>	Exit all software applications. Remove all software from the startup group, then restart Windows. Reinstall the printer driver.
<b>“General Protection Fault”, “Exception OE”, “Spool 32”, or “Illegal Operation” messages appear.</b>	Close all other applications, reboot Windows and try printing again.
<b>“Fail To Print”, “A printer timeout error occurred” message appear.</b>	These messages may appear during printing. Just keep waiting until the machine finishes printing. If the message appears in ready mode or after printing has completed, check the connection and/or whether an error has occurred.
<b>Samsung Printer Experience</b> is not shown when you click <b>more settings</b> .	<b>Samsung Printer Experience</b> is not installed. Download the app. from the Windows <b>Store</b> and install it.
Machine information is not displayed when you click the device in the <b>Devices and Printers</b> .	Check the <b>Printer properties</b> . Click the <b>Ports</b> tab. ( <b>Control Panel</b> > <b>Devices and Printers</b> > Right-click on your printer icon and select <b>Printer properties</b> ) If the port is set to File or LPT, uncheck them and select TCP/IP, USB, or WSD.



Refer to the Microsoft Windows User’s Guide that came with your computer for further information on Windows error messages.

# Operating system problems

## Common Mac problems

Condition	Suggested solutions
<b>The machine does not print PDF files correctly. Some parts of graphics, text, or illustrations are missing.</b>	<p>Printing the PDF file as an image may enable the file to print. Turn on <b>Print As Image</b> from the Acrobat printing options.</p> <p> It will take longer to print when you print a PDF file as an image.</p>
<b>Some letters are not displayed normally during cover page printing.</b>	<p>Mac OS cannot create the font while printing the cover page. The English alphabet and numbers are displayed normally on the cover page.</p>
<b>When printing a document in Mac with Acrobat Reader 6.0 or higher, colors print incorrectly.</b>	<p>Make sure that the resolution setting in your machine driver matches the one in Acrobat Reader.</p>



Refer to the Mac User's Guide that came with your computer for further information on Mac error messages.

# Operating system problems

## Common Linux problems

Condition	Suggested solutions
<b>When printing more than one copy, the second copy does not print.</b>	The problem occurs on Ubuntu 12.04 due to the problem in standard CUPS filter 'pdftops'. Update 'cups-filters' package to version 1.0.18 to fix the problem ('pdftops' is a part of 'cups-filters' package).
<b>Unchecking the collate option in the Print Dialog does not work.</b>	For some distributions, GNOME Print Dialog has an issue handling the collate option. As workaround, set the default value of collate option to <b>False</b> using the system's printing utility(execute "system-config-printer" in the Terminal program).
<b>Printing always works with duplex.</b>	This duplex issue was in Ubuntu 9.10 CUPS package. Update CUPS version to 1.4.1-5ubuntu2.2.
<b>Printer is not added through system's printing utility.</b>	The problem occurs on Debian 7 due to the defect in 'system-config-printer' package of the Debian 7 ( <a href="http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=662813">http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=662813</a> in Debian bug tracking system). Please use another way to add printer (CUPS WebUI for example)
<b>Paper size and orientation are disabled in the Print Dialog when opening text files.</b>	The problem occurs on Fedora 19 and it's related to 'leafpad' text editor on Fedora 19. Please use other text editors like 'gedit'.



Refer to the Linux User's Guide that came with your computer for further information on Linux error messages.

# Contact SAMSUNG worldwide

If you have any comments or questions regarding Samsung products, contact the Samsung customer care center.

Country/Region	Customer Care Center	WebSite
<b>ALGERIA</b>	021 36 11 00	www.samsung.com/n_africa/support
<b>ARGENTINE</b>	0800-333-3733	www.samsung.com/ar/support
<b>ARMENIA</b>	0-800-05-555	www.samsung.com/support
<b>AUSTRALIA</b>	1300 362 603	www.samsung.com/au/support
<b>AUSTRIA</b>	0800 - SAMSUNG (0800 - 7267864)	www.samsung.com/at/support
<b>AZERBAIJAN</b>	0-88-555-55-55	www.samsung.com/support
<b>BAHRAIN</b>	8000-GSAM (8000-4726)	www.samsung.com/ae/support (English) www.samsung.com/ae_ar/support (Arabic)
<b>BELARUS</b>	810-800-500-55-500	www.samsung.com/support
<b>BANGLADESH</b>	09612300300	www.samsung.com/in/support

Country/Region	Customer Care Center	WebSite
<b>BELGIUM</b>	02-201-24-18	www.samsung.com/be/support (Dutch) www.samsung.com/be_fr/support (French)
<b>BOLIVIA</b>	800-10-7260 [HHP] 4828210	www.samsung.com/cl/support
<b>BOSNIA</b>	051 331 999	www.samsung.com/support
<b>BOTSWANA</b>	8007260000	www.samsung.com/support
<b>BRAZIL</b>	0800-124-421 (Demais cidades e regiões) 4004-0000 (Capitais e grandes centros)	www.samsung.com/br/support
<b>BULGARIA</b>	800 111 31 , Безплатна телефонна линия	www.samsung.com/bg/support
<b>BURUNDI</b>	200	www.samsung.com/support
<b>CAMEROON</b>	7095- 0077	www.samsung.com/africa_fr/support

# Contact SAMSUNG worldwide

Country/Region	Customer Care Center	WebSite
<b>CANADA</b>	1-800-SAMSUNG (726-7864)	www.samsung.com/ ca/support(English)  www.samsung.com/ ca_fr/support (French)
<b>CHILE</b>	800-SAMSUNG (726-7864) [HHP] 02-24828200	www.samsung.com/ cl/support
<b>CHINA</b>	400-810-5858	www.samsung.com/ cn/support
<b>COLOMBIA</b>	Bogotá 600 12 72 Gratis desde cualquier parte del país 01 8000 112 112 ó desde su celular #SAM(726)	www.samsung.com/ co/support
<b>COSTA RICA</b>	0-800-507-7267 00-800-1-SAMSUNG (726-7864)	www.samsung.com/ latin/support (Spanish)  www.samsung.com/ latin_en/support (English)
<b>CROATIA</b>	072 726 786	www.samsung.com/ hr/support
<b>Cote D' Ivoire</b>	8000 0077	www.samsung.com/ africa_fr/support

Country/Region	Customer Care Center	WebSite
<b>CYPRUS</b>	8009 4000 only from landline, toll free	www.samsung.com/ gr/support
<b>CZECH</b>	800-SAMSUNG (800-726786)	www.samsung.com/ cz/support
<b>DENMARK</b>	70 70 19 70	www.samsung.com/ dk/support
<b>DOMINICA</b>	1-800-751-2676	www.samsung.com/ latin/support (Spanish)  www.samsung.com/ latin_en/support (English)
<b>DRC</b>	499999	www.samsung.com/ support
<b>ECUADOR</b>	1-800-10-72670 1-800-SAMSUNG (72-6786)	www.samsung.com/ latin/support (Spanish)  www.samsung.com/ latin_en/ support(English)
<b>EGYPT</b>	08000-726786 16580	www.samsung.com/ eg/support

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Country/Region	Customer Care Center	WebSite
<b>EIRE</b>	0818 717100	www.samsung.com/ie/support
<b>EL SALVADOR</b>	800-6225	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
<b>ESTONIA</b>	800-7267	www.samsung.com/ee/support
<b>FINLAND</b>	030-6227 515	www.samsung.com/fi/support
<b>FRANCE</b>	01 48 63 00 00	www.samsung.com/fr/support
<b>GERMANY</b>	0180 6 SAMSUNG bzw. 0180 6 7267864* [HHP] 0180 6 M SAMSUNG bzw. 0180 6 67267864* (*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobilfunk max. 0,60 €/Anruf)	www.samsung.com/de/support
<b>GEORGIA</b>	0-800-555-555	www.samsung.com/support

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# Glossary



The following glossary helps you get familiar with the product by understanding the terminologies commonly used with printing as well as mentioned in this user's guide.

## 802.11

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802.11 is a set of standards for wireless local area network (WLAN) communication, developed by the IEEE LAN/MAN Standards Committee (IEEE 802).

## 802.11b/g/n

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802.11b/g/n can share same hardware and use the 2.4 GHz band. 802.11b supports bandwidth up to 11 Mbps, 802.11n supports bandwidth up to 150 Mbps. 802.11b/g/n devices may occasionally suffer interference from microwave ovens, cordless telephones, and Bluetooth devices.

## Access point

---

Access Point or Wireless Access Point (AP or WAP) is a device that connects wireless communication devices together on wireless local area networks (WLAN), and acts as a central transmitter and receiver of WLAN radio signals.

## ADF

---

An Automatic Document Feeder (ADF) is a scanning unit that will automatically feed an original sheet of paper so that the machine can scan some amount of the paper at once.

## AppleTalk

---

AppleTalk is a proprietary suite of protocols developed by Apple, Inc for computer networking. It was included in the original Mac (1984) and is now deprecated by Apple in favor of TCP/IP networking.

## BIT Depth

---

A computer graphics term describing the number of bits used to represent the color of a single pixel in a bitmapped image. Higher color depth gives a broader range of distinct colors. As the number of bits increases, the number of possible colors becomes impractically large for a color map. 1-bit color is commonly called as monochrome or black and white.

## BMP

---

A bitmapped graphics format used internally by the Microsoft Windows graphics subsystem (GDI), and used commonly as a simple graphics file format on that platform.

# Glossary

## BOOTP

---

Bootstrap Protocol. A network protocol used by a network client to obtain its IP address automatically. This is usually done in the bootstrap process of computers or operating systems running on them. The BOOTP servers assign the IP address from a pool of addresses to each client. BOOTP enables 'diskless workstation' computers to obtain an IP address prior to loading any advanced operating system.

## CCD

---

Charge Coupled Device (CCD) is a hardware which enables the scan job. CCD Locking mechanism is also used to hold the CCD module to prevent any damage when you move the machine.

## Collation

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Collation is a process of printing a multiple-copy job in sets. When collation is selected, the device prints an entire set before printing additional copies.

## Control Panel

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A control panel is a flat, typically vertical, area where control or monitoring instruments are displayed. They are typically found in front of the machine.

## Coverage

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It is the printing term used for a toner usage measurement on printing. For example, 5% coverage means that an A4 sided paper has about 5% image or text on it. So, if the paper or original has complicated images or lots of text on it, the coverage will be higher and at the same time, a toner usage will be as much as the coverage.

## CSV

---

Comma Separated Values (CSV). A type of file format, CSV is used to exchange data between disparate applications. The file format, as it is used in Microsoft Excel, has become a de facto standard throughout the industry, even among non-Microsoft platforms.

## DADF

---

A Duplex Automatic Document Feeder (DADF) is a scanning unit that will automatically feed and turn over an original sheet of paper so that the machine can scan on both sides of the paper.

## Default

---

The value or setting that is in effect when taking a printer out of its box state, reset, or initialized.

# Glossary

## DHCP

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A Dynamic Host Configuration Protocol (DHCP) is a client-server networking protocol. A DHCP server provides configuration parameters specific to the DHCP client host requesting, generally, information required by the client host to participate on an IP network. DHCP also provides a mechanism for allocation of IP addresses to client hosts.

## DIMM

---

Dual Inline Memory Module (DIMM), a small circuit board that holds memory. DIMM stores all the data within the machine like printing data, received fax data.

## DLNA

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The Digital Living Network Alliance (DLNA) is a standard that allows devices on a home network to share information with each other across the network.

## DNS

---

The Domain Name Server (DNS) is a system that stores information associated with domain names in a distributed database on networks, such as the Internet.

## Dot Matrix Printer

---

A dot matrix printer refers to a type of computer printer with a print head that runs back and forth on the page and prints by impact, striking an ink-soaked cloth ribbon against the paper, much like a typewriter.

## DPI

---

Dots Per Inch (DPI) is a measurement of resolution that is used for scanning and printing. Generally, higher DPI results in a higher resolution, more visible detail in the image, and a larger file size.

## DRPD

---

Distinctive Ring Pattern Detection. Distinctive Ring is a telephone company service which enables a user to use a single telephone line to answer several different telephone numbers.

## Duplex

---

A mechanism that will automatically turn over a sheet of paper so that the machine can print (or scan) on both sides of the paper. A printer equipped with a Duplex Unit can print on both sides of paper during one print cycle.

## Duty Cycle

---

Duty cycle is the page quantity which does not affect printer performance for a month. Generally the printer has the lifespan limitation such as pages per year. The lifespan means the average capacity of print-outs, usually within the warranty period. For example, if the duty cycle is 48,000 pages per month assuming 20 working days, a printer limits 2,400 pages a day.

# Glossary

## ECM

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Error Correction Mode (ECM) is an optional transmission mode built into Class 1 fax machines or fax modems. It automatically detects and corrects errors in the fax transmission process that are sometimes caused by telephone line noise.

## Emulation

---

Emulation is a technique of one machine obtaining the same results as another.

An emulator duplicates the functions of one system with a different system, so that the second system behaves like the first system. Emulation focuses on exact reproduction of external behavior, which is in contrast to simulation, which concerns an abstract model of the system being simulated, often considering its internal state.

## Ethernet

---

Ethernet is a frame-based computer networking technology for local area networks (LANs). It defines wiring and signaling for the physical layer, and frame formats and protocols for the media access control (MAC)/data link layer of the OSI model. Ethernet is mostly standardized as IEEE 802.3. It has become the most widespread LAN technology in use during the 1990s to the present.

## EtherTalk

---

A suite of protocols developed by Apple Computer for computer networking. It was included in the original Mac (1984) and is now deprecated by Apple in favor of TCP/IP networking.

## FDI

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Foreign Device Interface (FDI) is a card installed inside the machine to allow a third party device such as a coin operated device or a card reader. Those devices allow the pay-for-print service on your machine.

## FTP

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A File Transfer Protocol (FTP) is a commonly used protocol for exchanging files over any network that supports the TCP/IP protocol (such as the Internet or an intranet).

## Fuser Unit

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The part of a laser printer that fuses the toner onto the print media. It consists of a heat roller and a pressure roller. After toner is transferred onto the paper, the fuser unit applies heat and pressure to ensure that the toner stays on the paper permanently, which is why paper is warm when it comes out of a laser printer.



# Glossary

## Gateway

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A connection between computer networks, or between a computer network and a telephone line. It is very popular, as it is a computer or a network that allows access to another computer or network.

## Grayscale

---

A shade of gray that represents light and dark portions of an image when color images are converted to grayscale; colors are represented by various shades of gray.

## Halftone

---

An image type that simulates grayscale by varying the number of dots. Highly colored areas consist of a large number of dots, while lighter areas consist of a smaller number of dots.

## Mass storage device

---

Mass storage device, commonly referred to as a hard drive or hard disk, is a non-volatile storage device which stores digitally-encoded data on rapidly rotating platters with magnetic surfaces.

## IEEE

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The Institute of Electrical and Electronics Engineers (IEEE) is an international non-profit, professional organization for the advancement of technology related to electricity.

## IEEE 1284

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The 1284 parallel port standard was developed by the Institute of Electrical and Electronics Engineers (IEEE). The term "1284-B" refers to a specific connector type on the end of the parallel cable that attaches to the peripheral (for example, a printer).

## Intranet

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A private network that uses Internet Protocols, network connectivity, and possibly the public telecommunication system to securely share part of an organization's information or operations with its employees. Sometimes the term refers only to the most visible service, the internal website.

## IP address

---

An Internet Protocol (IP) address is a unique number that devices use in order to identify and communicate with each other on a network utilizing the Internet Protocol standard.

# Glossary

## IPM

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The Images Per Minute (IPM) is a way of measuring the speed of a printer. An IPM rate indicates the number of single-sided sheets a printer can complete within one minute.

## IPP

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The Internet Printing Protocol (IPP) defines a standard protocol for printing as well as managing print jobs, media size, resolution, and so forth. IPP can be used locally or over the Internet to hundreds of printers, and also supports access control, authentication, and encryption, making it a much more capable and secure printing solution than older ones.

## IPX/SPX

---

IPX/SPX stands for Internet Packet Exchange/Sequenced Packet Exchange. It is a networking protocol used by the Novell NetWare operating systems. IPX and SPX both provide connection services similar to TCP/IP, with the IPX protocol having similarities to IP, and SPX having similarities to TCP. IPX/SPX was primarily designed for local area networks (LANs), and is a very efficient protocol for this purpose (typically its performance exceeds that of TCP/IP on a LAN).

## ISO

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The International Organization for Standardization (ISO) is an international standard-setting body composed of representatives from national standards bodies. It produces world-wide industrial and commercial standards.

## ITU-T

---

The International Telecommunication Union is an international organization established to standardize and regulate international radio and telecommunications. Its main tasks include standardization, allocation of the radio spectrum, and organizing interconnection arrangements between different countries to allow international phone calls. A -T out of ITU-T indicates telecommunication.

## ITU-T No. 1 chart

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Standardized test chart published by ITU-T for document facsimile transmissions.

## JBIG

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Joint Bi-level Image Experts Group (JBIG) is an image compression standard with no loss of accuracy or quality, which was designed for compression of binary images, particularly for faxes, but can also be used on other images.

## JPEG

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Joint Photographic Experts Group (JPEG) is a most commonly used standard method of lossy compression for photographic images. It is the format used for storing and transmitting photographs on the World Wide Web.

# Glossary

## LDAP

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The Lightweight Directory Access Protocol (LDAP) is a networking protocol for querying and modifying directory services running over TCP/IP.

## LED

---

A Light-Emitting Diode (LED) is a semiconductor device that indicates the status of a machine.

## MAC address

---

Media Access Control (MAC) address is a unique identifier associated with a network adapter. MAC address is a unique 48-bit identifier usually written as 12 hexadecimal characters grouped in pairs (e. g., 00-00-0c-34-11-4e). This address is usually hard-coded into a Network Interface Card (NIC) by its manufacturer, and used as an aid for routers trying to locate machines on large networks.

## MFP

---

Multi Function Peripheral (MFP) is an office machine that includes the following functionality in one physical body, so as to have a printer, a copier, a fax, a scanner and etc.

## MH

---

Modified Huffman (MH) is a compression method for decreasing the amount of data that needs to be transmitted between the fax machines to transfer the image recommended by ITU-T T.4. MH is a codebook-based run-length encoding scheme optimized to efficiently compress white space. As most faxes consist mostly of white space, this minimizes the transmission time of most faxes.

## MMR

---

Modified Modified READ (MMR) is a compression method recommended by ITU-T T.6.

## Modem

---

A device that modulates a carrier signal to encode digital information, and also demodulates such a carrier signal to decode transmitted information.

## MR

---

Modified Read (MR) is a compression method recommended by ITU-T T.4. MR encodes the first scanned line using MH. The next line is compared to the first, the differences determined, and then the differences are encoded and transmitted.

# Glossary

## NetWare

---

A network operating system developed by Novell, Inc. It initially used cooperative multitasking to run various services on a PC, and the network protocols were based on the archetypal Xerox XNS stack. Today NetWare supports TCP/IP as well as IPX/SPX.

## OPC

---

Organic Photo Conductor (OPC) is a mechanism that makes a virtual image for print using a laser beam emitted from a laser printer, and it is usually green or rust colored and has a cylinder shape.

An imaging unit containing a drum slowly wears the drum surface by its usage in the printer, and it should be replaced appropriately since it gets worn from contact with the cartridge development brush, cleaning mechanism, and paper.

## Originals

---

The first example of something, such as a document, photograph or text, etc, which is copied, reproduced or translated to produce others, but which is not itself copied or derived from something else.

## OSI

---

Open Systems Interconnection (OSI) is a model developed by the International Organization for Standardization (ISO) for communications. OSI offers a standard, modular approach to network design that divides the required set of complex functions into manageable, self-contained, functional layers. The layers are, from top to bottom, Application, Presentation, Session, Transport, Network, Data Link and Physical.

## PABX

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A private automatic branch exchange (PABX) is an automatic telephone switching system within a private enterprise.

## PCL

---

Printer Command Language (PCL) is a Page Description Language (PDL) developed by HP as a printer protocol and has become an industry standard. Originally developed for early inkjet printers, PCL has been released in varying levels for thermal, dot matrix printer, and laser printers.

## PDF

---

Portable Document Format (PDF) is a proprietary file format developed by Adobe Systems for representing two dimensional documents in a device independent and resolution independent format.

# Glossary

## PostScript

---

PostScript (PS) is a page description language and programming language used primarily in the electronic and desktop publishing areas. - that is run in an interpreter to generate an image.

## Printer Driver

---

A program used to send commands and transfer data from the computer to the printer.

## Print Media

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The media like paper, envelopes, labels, and transparencies which can be used in a printer, a scanner, a fax or, a copier.

## PPM

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Pages Per Minute (PPM) is a method of measurement for determining how fast a printer works, meaning the number of pages a printer can produce in one minute.

## PRN file

---

An interface for a device driver, this allows software to interact with the device driver using standard input/output system calls, which simplifies many tasks.

## Protocol

---

A convention or standard that controls or enables the connection, communication, and data transfer between two computing endpoints.

## PS

---

See PostScript.

## PSTN

---

The Public-Switched Telephone Network (PSTN) is the network of the world's public circuit-switched telephone networks which, on industrial premises, is usually routed through the switchboard.

## RADIUS

---

Remote Authentication Dial In User Service (RADIUS) is a protocol for remote user authentication and accounting. RADIUS enables centralized management of authentication data such as usernames and passwords using an AAA (authentication, authorization, and accounting) concept to manage network access.

## Resolution

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The sharpness of an image, measured in Dots Per Inch (DPI). The higher the dpi, the greater the resolution.

# Glossary

## SMB

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Server Message Block (SMB) is a network protocol mainly applied to share files, printers, serial ports, and miscellaneous communications between nodes on a network. It also provides an authenticated Inter-process communication mechanism.

## SMTP

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Simple Mail Transfer Protocol (SMTP) is the standard for e-mail transmissions across the Internet. SMTP is a relatively simple, text-based protocol, where one or more recipients of a message are specified, and then the message text is transferred. It is a client-server protocol, where the client transmits an email message to the server.

## SSID

---

Service Set Identifier (SSID) is a name of a wireless local area network (WLAN). All wireless devices in a WLAN use the same SSID in order to communicate with each other. The SSIDs are case-sensitive and have a maximum length of 32 characters.

## Subnet Mask

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The subnet mask is used in conjunction with the network address to determine which part of the address is the network address and which part is the host address.

## TCP/IP

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The Transmission Control Protocol (TCP) and the Internet Protocol (IP); the set of communications protocols that implement the protocol stack on which the Internet and most commercial networks run.

## TCR

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Transmission Confirmation Report (TCR) provides details of each transmission such as job status, transmission result and number of pages sent. This report can be set to print after each job or only after failed transmissions.

## TIFF

---

Tagged Image File Format (TIFF) is a variable-resolution bitmapped image format. TIFF describes image data that typically come from scanners. TIFF images make use of tags, keywords defining the characteristics of the image that is included in the file. This flexible and platform-independent format can be used for pictures that have been made by various image processing applications.

## Toner Cartridge

---

A kind of bottle or container used in a machine like a printer which contains toner. Toner is a powder used in laser printers and photocopiers, which forms the text and images on the printed paper. Toner can be fused by a combination of heat/pressure from the fuser, causing it to bind to the fibers in the paper.

# Glossary

## TWAIN

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An industry standard for scanners and software. By using a TWAIN-compliant scanner with a TWAIN-compliant program, a scan can be initiated from within the program. It is an image capture API for Microsoft Windows and Apple Mac operating systems.

## UNC Path

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Uniform Naming Convention (UNC) is a standard way to access network shares in Window NT and other Microsoft products. The format of a UNC path is:  
\\<servername>\<sharename>\<Additional directory>

## URL

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Uniform Resource Locator (URL) is the global address of documents and resources on the Internet. The first part of the address indicates what protocol to use, the second part specifies the IP address or the domain name where the resource is located.

## USB

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Universal Serial Bus (USB) is a standard that was developed by the USB Implementers Forum, Inc., to connect computers and peripherals. Unlike the parallel port, USB is designed to concurrently connect a single computer USB port to multiple peripherals.

## Watermark

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A watermark is a recognizable image or pattern in paper that appears lighter when viewed by transmitted light. Watermarks were first introduced in Bologna, Italy in 1282; they have been used by papermakers to identify their product, and also on postage stamps, currency, and other government documents to discourage counterfeiting.

## WEP

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Wired Equivalent Privacy (WEP) is a security protocol specified in IEEE 802.11 to provide the same level of security as that of a wired LAN. WEP provides security by encrypting data over radio so that it is protected as it is transmitted from one end point to another.

## WIA

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Windows Imaging Architecture (WIA) is an imaging architecture that is originally introduced in Windows Me and Windows XP. A scan can be initiated from within these operating systems by using a WIA-compliant scanner.

## WPA

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Wi-Fi Protected Access (WPA) is a class of systems to secure wireless (Wi-Fi) computer networks, which was created to improve upon the security features of WEP.

## WPA-PSK

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WPA-PSK (WPA Pre-Shared Key) is special mode of WPA for small business or home users. A shared key, or password, is configured in the wireless access point (WAP) and any wireless laptop or desktop devices. WPA-PSK generates a unique key for each session between a wireless client and the associated WAP for more advanced security.

## WPS

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The Wi-Fi Protected Setup (WPS) is a standard for establishing a wireless home network. If your wireless access point supports WPS, you can configure the wireless network connection easily without a computer.

## XPS

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XML Paper Specification (XPS) is a specification for a Page Description Language (PDL) and a new document format, which has benefits for portable document and electronic document, developed by Microsoft. It is an XML-based specification, based on a new print path and a vector-based device-independent document format.



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