

# Dell™ Color Smart Printer | S3840cdn

## User's Guide



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# Before Beginning

# Notes, Cautions, and Warnings

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## NOTE:

- A NOTE indicates important information that helps you make better use of your printer.



## CAUTION:

- A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



## WARNING:

- A WARNING indicates a potential for property damage, personal injury, or death.

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## NOTE:

- When you use this machine, we recommend that you change the system administrator's user ID and passcode immediately after installing the machine.

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# User's Guide

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Click the links to the left for information on the features, options, and operation of your Dell Color Smart Printer | S3840cdn. For information on other documentation included with your printer, see "Finding Information".



**NOTE:**



- In this manual, Dell Smart Printer | S3840cdn is referred to as the "printer."
- In this manual, the procedures for the computer are explained using Microsoft® Windows® 7 unless stated otherwise.



## Conventions

The following describe the meaning of the symbols and fonts used in this manual:

Item	Description
<b>Bold</b> texts	<ul style="list-style-type: none"><li>• Names of hardware button on the operator panel.</li><li>• Menus, commands, windows, or dialog boxes displayed on the computer screen.</li></ul>
Texts in <code>Courier New</code> font	<ul style="list-style-type: none"><li>• Menus and messages displayed on the touch panel.</li><li>• Screen names on the touch panel.</li><li>• Characters entered from the computer.</li><li>• Directory paths.</li></ul>
< >	<ul style="list-style-type: none"><li>• Key on the keyboard of the computer.</li></ul>
→	<ul style="list-style-type: none"><li>• Indicates a process flow.</li></ul>
" "	<ul style="list-style-type: none"><li>• Cross references in this manual.</li><li>• Characters entered from the operator panel.</li><li>• Messages displayed on the computer screen.</li></ul>

Orientation of documents or paper is described in this guide as follows:

 , Long Edge Feed (LEF): Loading the document or paper in portrait orientation when viewed from the front of the machine.

 , Short Edge Feed (SEF): Loading the document or paper in landscape orientation when viewed from the front of the machine.

# Finding Information

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## What are you looking for? Find it here

---

- Drivers for my printer *Software and Documentation disc*
  - My *User's Guide*

The *Software and Documentation* disc contains documentation and drivers for your printer. You can use the *Software and Documentation* disc to install drivers or access your setup video and documentation.

Readme files may be included on your *Software and Documentation* disc to provide last-minute updates about technical changes to your printer or advanced technical reference material for experienced users or technicians.

Manuals other than the *User's Guide* are included in the *Manuals* folder of the *Software and Documentation* disc.
- 

- How to set up my printer *Setup Guide*
  - How to use my printer
- 

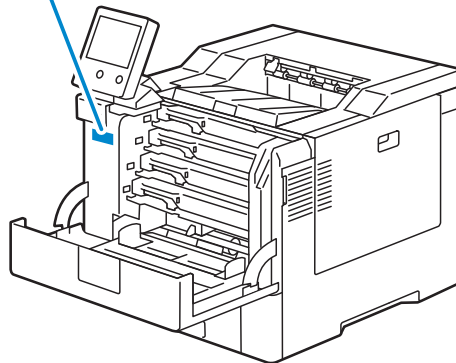
- Safety information *Important Information*
- Warranty information



### **WARNING:**

- **Read and follow all safety instructions in the *Important Information* prior to setting up and operating your printer.**
- 

- Express Service Code and Service Tag



The Express Service Code and Service Tag are located inside the front cover of your printer.

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- Latest drivers for my printer
- Documentation for my printer

- Answers to technical service and support questions 

**dell.com/support** provides several online tools, including:

  - Solutions — Troubleshooting hints and tips, articles from technicians, and online courses
  - Upgrades — Upgrade information for components, such as the printer drivers
  - Customer Care — Contact information, order status, warranty, and repair information
  - Downloads — Drivers
  - Manuals— Printer documentation and product specifications

Go to **dell.com/support**. Select your region, and fill in the requested details to access help tools and information.

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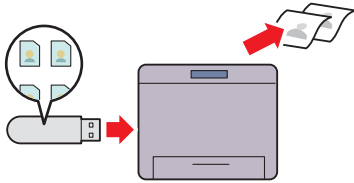


# Product Features

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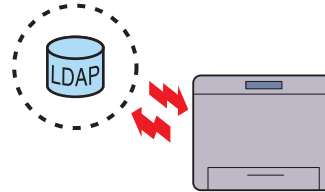
This chapter describes the product features and indicates their links.

## Print from USB



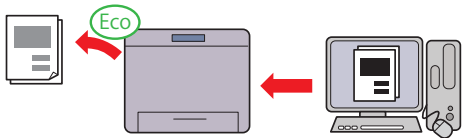
You can print files directly from a USB flash drive without requiring you to start your computer. See "Print From USB".

## Remote Authentication Using the LDAP or Kerberos Server



The user authentication using the LDAP or Kerberos server is available to control the user's login to the printer. Only users who can access the specified server are allowed to log in to the printer.

## Eco Mode



Eco Mode is a setting that saves cost on toner and paper. Skip Blank Pages, 2-Sided Print and toner saving will always apply for print jobs when Eco mode is enabled. See "Toner/Power Optimization".
















## Security Enhancement



If a global IP address is assigned to the printer, no one will be allowed to access the Dell Printer Configuration Web Tool without authenticating regardless of login settings. Furthermore, if the administrator logs in to the Dell Printer Configuration Web Tool with the default password while a global IP address is assigned, a warning message to change the password will be displayed. See "Changing Password from the Dell Printer Configuration Web Tool".

# Graphic Symbols on the Printer and Their Meanings

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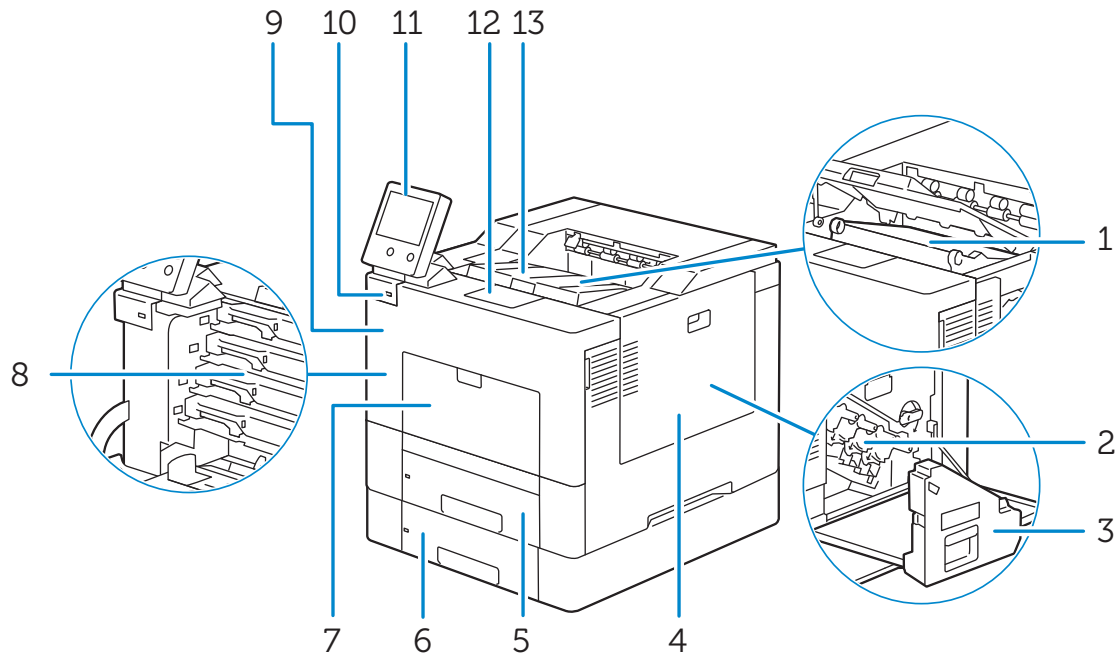
	Do not use stapled or clip on paper.
	Do not use folded, creased, or curled paper.
	Do not use ink-jet printing paper.
	Do not use OHP sheets.
	Do not use paper printed or used on one side.
	Caution.
	Do not throw a toner cartridge into an open flame.
	Do not throw a drum cartridge into an open flame.
	Do not expose to light.
	Do not touch.
	Caution (Hot surface).
	Do not disassemble the product.
	Do not throw a waste toner box into an open flame.
	Locking.
	Unlocking.

---

# About the Printer

## Front and Rear Views

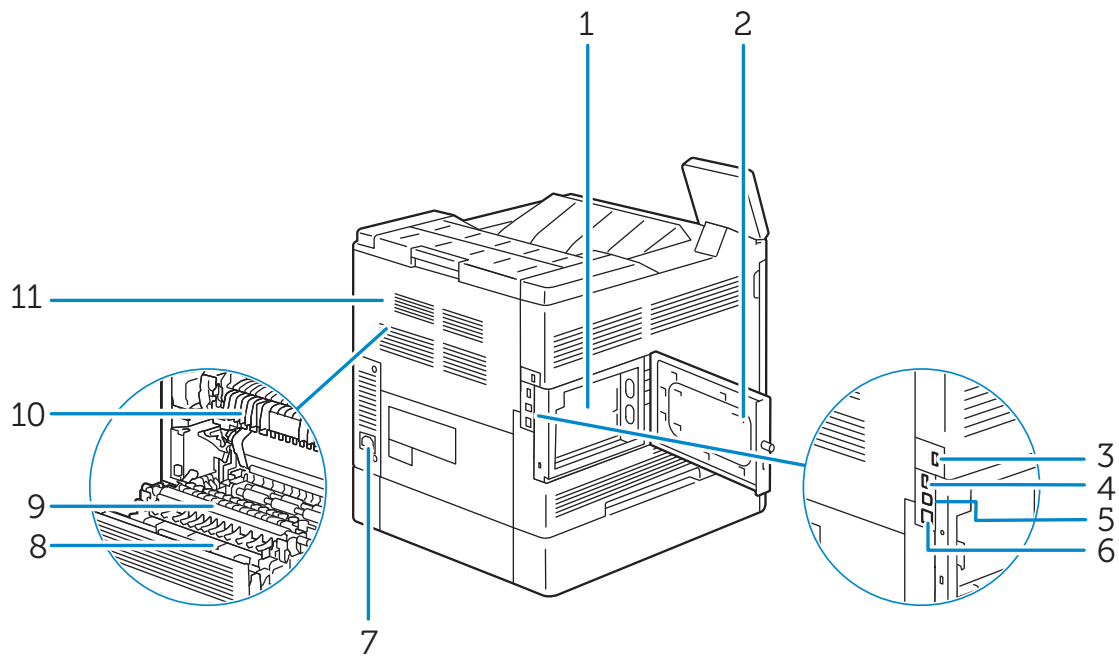
### Front View



1	Transfer Belt Unit	8	Toner Cartridges
2	Drum Cartridges	9	Front Cover
3	Waste Toner Box	10	Front USB Port*
4	Right Side Cover	11	Control Panel
5	Tray 1	12	Output Tray Extension
6	Optional 550-Sheet Feeder (Tray 2)	13	Top Cover
7	Bypass Tray (Tray 5)		

\* USB 2.0 host port (for the Print from USB feature)

## Rear View

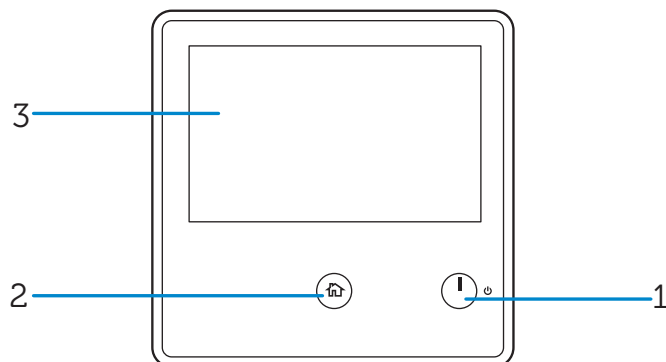


1	Control Board	7	Power Inlet
2	Left Side Cover	8	Duplex Unit
3	Wireless Adapter Socket	9	2nd Belt Transfer Roller (2nd BTR)
4	USB Port <sup>*1</sup>	10	Fusing Unit
5	USB Port <sup>*2</sup>	11	Rear Cover
6	Ethernet Port		

<sup>\*1</sup> USB 2.0 host port (for Smart Card)

<sup>\*2</sup> USB 3.0 device port

# Control Panel



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1 Power Button

---

2 Home Button

---

3 Touch Panel

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## Additional Components

### Optional Accessories

- 550-sheet feeder
- Wireless adapter
- Caster cabinet

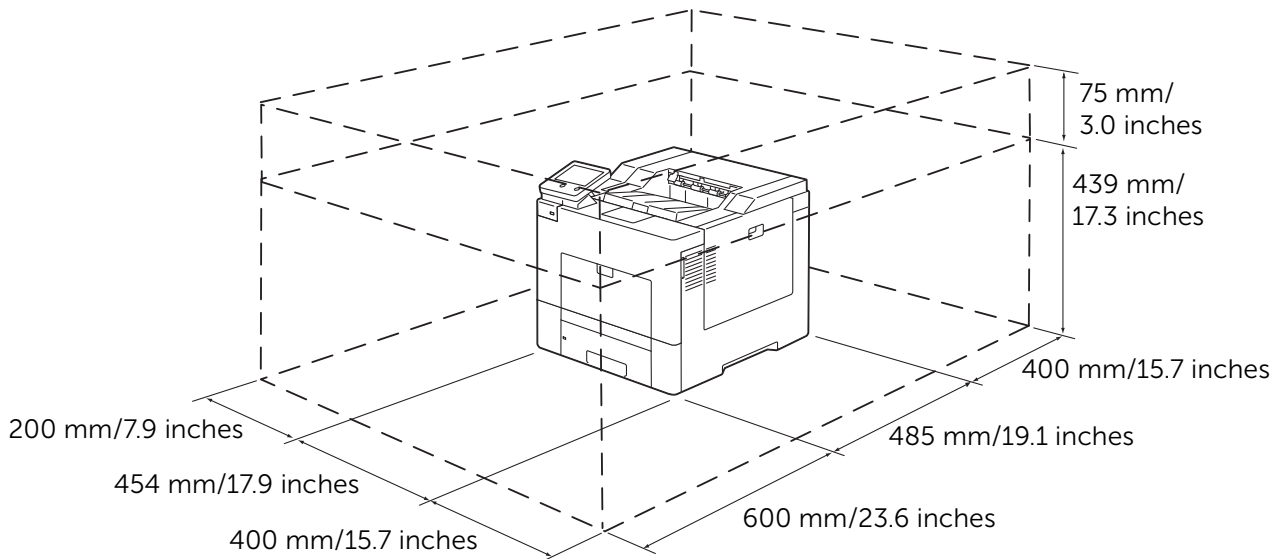


## Setting Up the Printer (Printer Setup)

# Preparing Printer Hardware

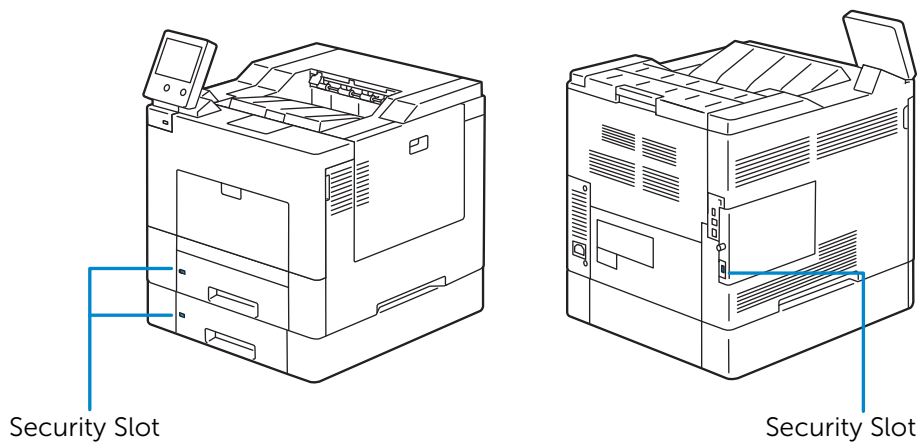
## Space Requirements

Provide enough room to open the printer trays, covers, and optional accessories, and for proper ventilation.



## Securing the Printer

To protect the printer from theft, you can use a Kensington lock. Attach the Kensington lock to the security slot of the printer.



Refer to the operating instructions supplied with the Kensington lock.



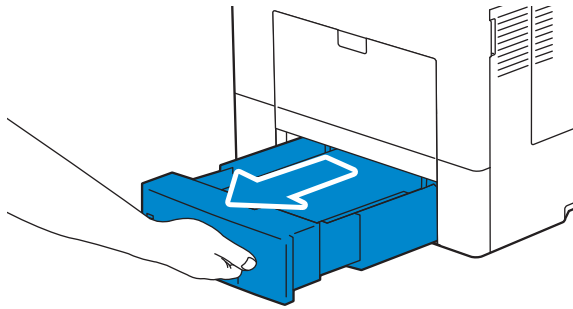
## Installing the Kensington Lock Extender

To use the Kensington lock when loading legal-size paper in Tray 1 or the optional 550-sheet feeder, install the Kensington lock extender onto the printer.

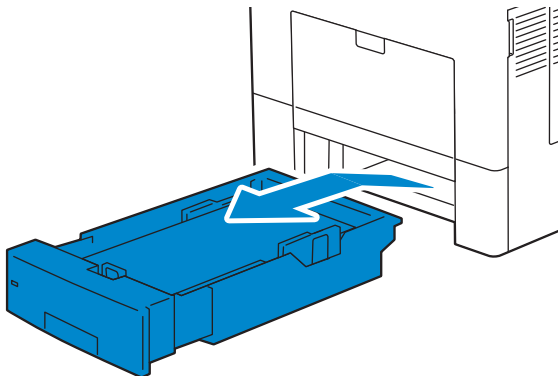
 **NOTE:**

- The Kensington lock extender for Tray 1 and the optional 550-sheet feeder (Tray 2) is marked with the number "1" and "2" respectively on its left side. Do not install the extender for Tray 2 to Tray 1, and vice versa.

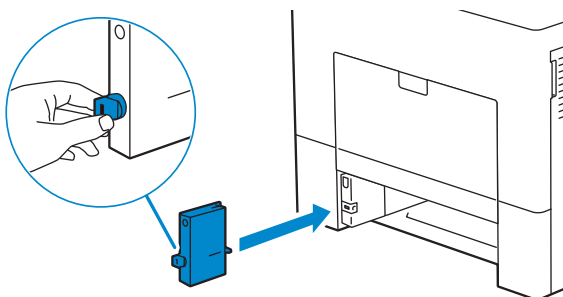
- 1 Pull the tray out of the printer about 200 mm.



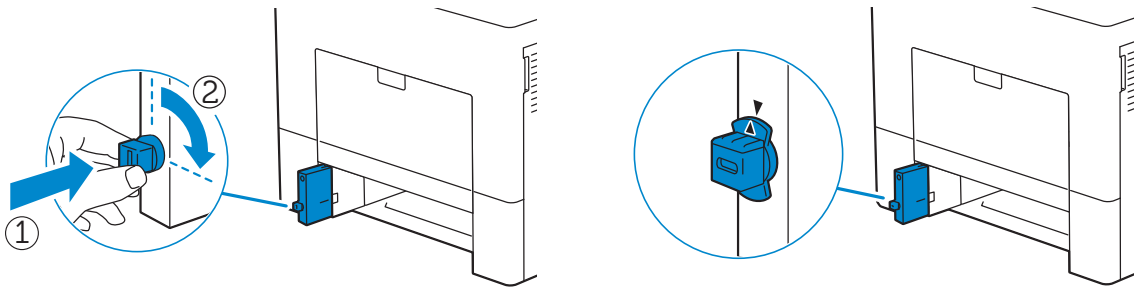
- 2 Hold the tray with both hands, and remove it from the printer.



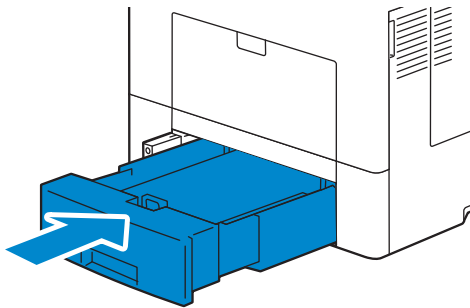
- 3 Hold the stopper of the Kensington lock extender and attach the extender into position on the printer.



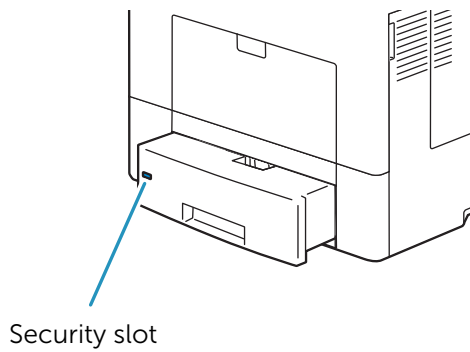
- 4 Push and rotate the stopper 90 degrees clockwise until the triangle on the stopper aligns with the one marked on the extender body.



- 5 Insert the tray into the printer, and push until it stops.



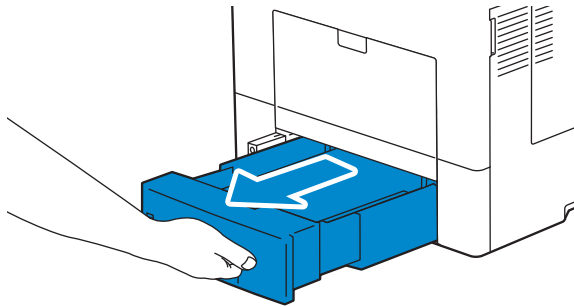
- 6 Attach the Kensington lock to the security slot.



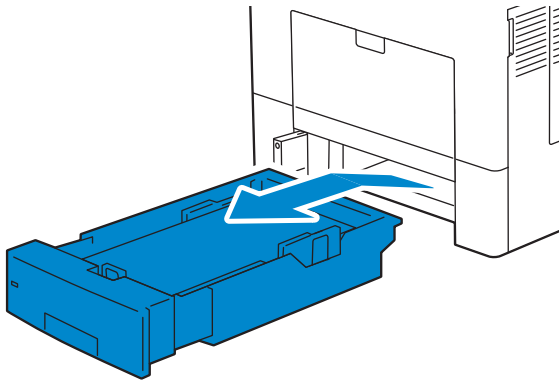
## Installing the Security Cover

To make your print media in Tray 1 more secure, install the security cover onto Tray 1.

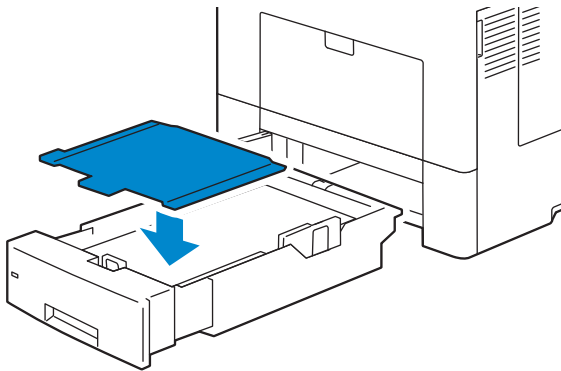
- 1 Pull Tray 1 out of the printer about 200 mm.



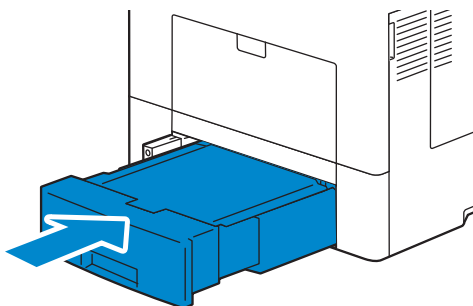
- 2 Hold Tray 1 with both hands, and remove it from the printer.



- 3 Place the security cover on the top of Tray 1.



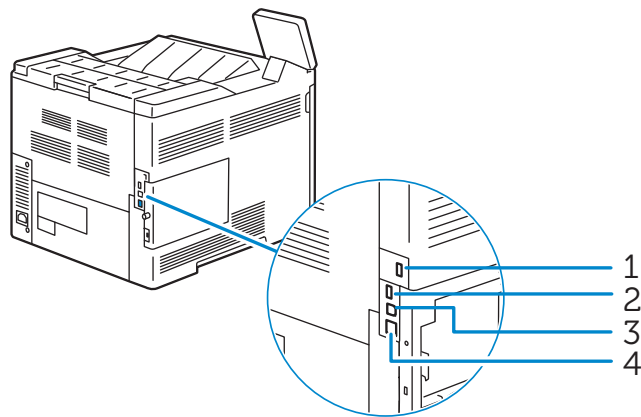
- 4 Insert Tray 1 into the printer, and push until it stops.



# Connecting and Setting Up Your Printer

To connect your printer to a computer or device, the following specification must be met for each of the connection type:

Connection type	Connection specifications
Ethernet	10BASE-T/100BASE-TX/1000BASE-T
USB	USB3.0/USB2.0
Wireless (optional)	IEEE 802.11n/802.11g/802.11b/802.11a



1	Wireless Adapter Socket
2	USB Port <sup>*1</sup>
3	USB Port <sup>*2</sup>
4	Ethernet Port

\*1 USB 2.0 host port (for Smart Card)

\*2 USB 3.0 device port

## Connecting to a Computer or a Network

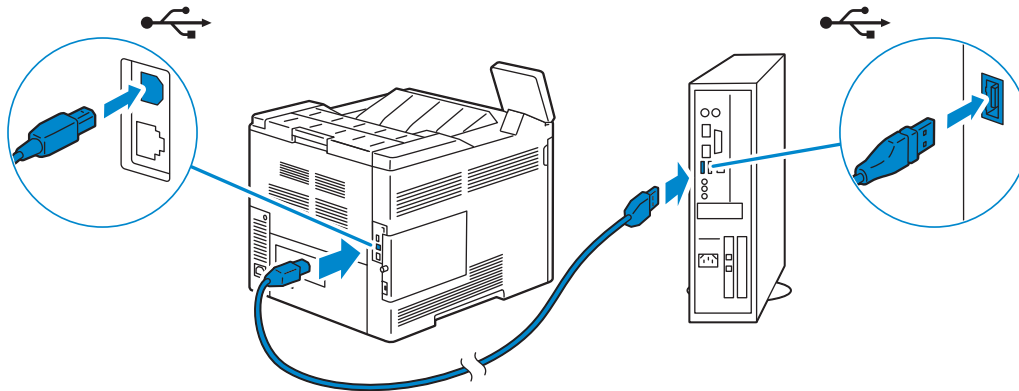
### NOTE:

- Before making connections, be sure to turn off the printer.

## Connecting to a Computer Using the USB Cable (Direct Connection)

A local printer is a printer which is directly connected to your computer using the USB cable. If your printer is connected to a network instead of your computer, skip this section and go to "Connecting to a Network Using the Ethernet Cable".

- 1 Connect the smaller USB connector into the USB port at the rear of the printer.



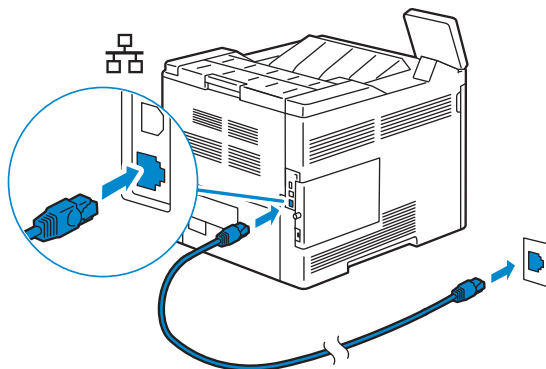
- 2 Connect the other end of the cable into a USB port of the computer.

**⚠ CAUTION:**

- Do not connect the printer USB cable to a USB port located on the keyboard.

## Connecting to a Network Using the Ethernet Cable

- 1 Connect the Ethernet cable.



To connect the printer to the network, connect one end of an Ethernet cable into the Ethernet port on the rear of the printer, and the other end to a LAN drop or hub.

## Connecting to a Wireless Network

See "Configuring the Wireless Settings".

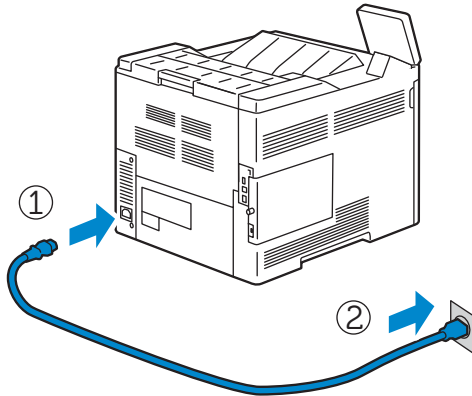
# Turning On/Off the Printer

## Turning On the Printer

### ⚠ WARNING:

- Do not use extension cords or power strips.
- The printer should not be connected to an Uninterruptible Power Supply (UPS) system.

- 1 Connect the power cable to the power inlet on the rear of the printer, and then to a power source.




- 2 Press the  button on the control panel.

## Turning Off the Printer

### ✍ NOTE:

- The data in the memory is cleared when the printer is turned off.

Press and hold the  button until the confirmation screen appears on the control panel, and then tap `Power Off`.

### ⚠ CAUTION:

- Pressing and holding the button for six or more seconds can turn off the printer immediately. However, note that this may result in the loss of data in memory.

### ✍ NOTE:

- Each press of the button switches the standby and power saver modes alternately. When the printer enters the power saver mode, the button blinks slowly.

## Configuring Initial Settings on the Control Panel

When you turn on the printer for the first time, the install wizard screen to perform the initial setup appears on the control panel. Follow the wizard to configure the initial settings, including the following:

- Language  
See "Language".
- Date & Time  
See "Date & Time".
- Measurements  
See "Measurements".

The printer is ready for use after tapping **Done** on the **Install Complete** screen that appears at the end of the settings.

## Setting Up the Printer Using Dell Printer Easy Install (Windows® Only)

### NOTE:

- To set up the printer as a wireless printer, see "Configuring the Wireless Settings".
- To set up the printer connected with Macintosh computers or Linux computers, see "Installing Printer Drivers on Macintosh Computers" or "Installing Printer Drivers on Linux Computers (CUPS)" respectively.

## Basic Setup

To set up the printer, you can use the **Dell Printer Easy Install** program on the computer running a Microsoft® Windows® operating system.

The program first searches for the printer and grasps how the printer is connected to the computer. Based on that information, the program will automatically install the drivers and software to your computer.

Before starting this basic setup, make sure that the printer is turned on, and ensure the cable connections as follows:

To set up the printer as a network (wired) printer, connect the Ethernet cable to the printer.

To set up the printer as a USB printer, connect the USB cable to the printer.

### NOTE:

- To enable the automatic search for network printers on the computer running a client operating system (Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 or Windows® 10), go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → **Advanced sharing settings**, and set **Network discovery** for the current network profile to **Turn on network discovery**.

- 1 Insert the *Software and Documentation* disc provided with the printer into your computer.

The **Dell Printer Easy Install** program launches automatically.

### NOTE:

- If the **Dell Printer Easy Install** program does not launch automatically, follow the procedure below.

The following procedure uses Windows® 10 as an example.

- a Right-click the Start button, and then click **Run**.
  - b Enter `D:\Setup.exe` (where D is the drive letter of the optical drive), and then click **OK**.
- 2 On the **Dell Printer Easy Install** window, click **Next**. **Dell Printer Easy Install** begins to search for your printer.

**3** Wait for **Dell Printer Easy Install** wizard to find your printer.

For a network (wired) printer, select your printer after the printer is found, and then click **Next**.

For a USB printer, **Dell Printer Easy Install** automatically installs your printer after the printer is found.

 **NOTE:**

- If **Dell Printer Easy Install** does not find any printer, the main menu window of **Dell Printer Easy Install** appears. See "Installing Printer Drivers on Windows® Computers".

**4** Click **Finish** to exit the wizard when the **Ready to Print!** screen appears.

**5** Eject the *Software and Documentation* disc.

## Configuring the Wireless Settings

The wireless adapter allows you to use the printer with wireless network connection.

The specifications of the wireless adapter are described below.

Item	Specification
Connectivity Technology	Wireless
Compliant Standards	IEEE 802.11a, 802.11b, 802.11g, and 802.11n
Bandwidth	IEEE 802.11n, 802.11g and 802.11b: 2.4 GHz IEEE 802.11n and 802.11a: 5 GHz
Data Transfer Rate	IEEE 802.11n: 72 Mbps IEEE 802.11g and 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
Security	64 (40-bit key)/128 (104-bit key) WEP, WPA Personal (TKIP, AES), WPA2 Personal (AES), WPA Enterprise (TKIP, AES) <sup>*1</sup> , WPA2 Enterprise (AES) <sup>*1</sup>
Wi-Fi Protected Setup (WPS) <sup>*2</sup>	Push-Button Configuration (PBC), Personal Identification Number (PIN)
Wireless Mode	Infrastructure, Ad-hoc, Wi-Fi Direct

<sup>\*1</sup> EAP method supports PEAPv0/MS-CHAPv2, EAP-TLS, EAP-TTLS/PAP, EAP-TTLS/CHAP and EAP-TTLS/MSCHAPv2.

<sup>\*2</sup> WPS 2.0 compliant.

 **NOTE:**

- The wireless adapter is configured as a secondary network interface by default. If the wireless connection is the only network to be used, the wireless adapter must be set as the primary interface.
- When the wireless adapter is configured as a primary network interface, you cannot use IEEE 802.1x authentication on the Ethernet port.



## Determining the Wireless Network Settings

You need to know the settings for the wireless network to set up the wireless printer. For details of the settings, contact your network administrator.

<b>Wireless Settings</b>	SSID	A name with up to 32 alphanumeric characters, which identifies the wireless network	
	Network Type	<b>Infrastructure</b> or <b>Ad hoc</b>	
<b>Security Settings</b>	Encryption	• No security	For the wireless setting without specifying any encryption
		• WEP	Requires a WEP key. For a 64-bit WEP: up to 10-hexadecimal character key For a 128-bit WEP: up to 26-hexadecimal character key
		Transmit Key	WEP key 1-4
		• WPA2 Personal*	With AES method
		• Mixed Mode Personal*	Automatically selects the encryption type from WPA Personal (AES), WPA2 Personal (AES) or WPA Personal (TKIP).
		Passphrase	Alphanumeric characters from 8 to 63 bytes long and hexadecimal characters of 64 bytes long
		• WPA2 Enterprise* • Mixed Mode Enterprise*	With AES method Automatically selects an available encryption type from WPA Enterprise (AES), WPA2 Enterprise (AES) or WPA Enterprise (TKIP).
	Authentication	PEAPv0 MS-CHAPv2, EAP-TLS, EAP-TTLS/PAP, EAP-TTLS/CHAP or EAP-TTLS/MS-CHAPv2	

\* Available only when Infrastructure is selected as Network Type.

# Configuring the Optional Wireless Adapter

You can select a method to configure a wireless adapter from the following:

---

WPS-PBC <sup>*1*3</sup>
WPS-PIN <sup>*2*3</sup>
Auto SSID Setup
Manual SSID Setup
Dell Printer Configuration Web Tool

---

<sup>\*1</sup> WPS-PBC (Wi-Fi Protected Setup-Push Button Configuration) is a method to authenticate and register devices required for wireless configuration, by pressing the button provided on your access point or wireless router. This setting is available only when the access point supports WPS. Before starting WPS-PBC, check where the WPS button (button name may vary) on the wireless LAN access point.

<sup>\*2</sup> WPS-PIN (Wi-Fi Protected Setup-Personal Identification Number) is a method to authenticate and register devices required for wireless configuration, by entering PIN assignments into the wireless LAN access point. This setting, performed through access point, is available only when the access points of your wireless router supports WPS.

<sup>\*3</sup> For WPS operation on the wireless LAN access point, refer to the manual supplied with the wireless LAN access point.


---

## NOTE:

- The optional wireless adapter must be installed on the printer.

## WPS-PBC

You can start Push Button Configuration only from the control panel.

- 1 Press the  button.
- 2 Tap Device→Connectivity→Wi-Fi.
- 3 Tap Manual Setup.
- 4 Tap Wi-Fi Protected Setup (WPS)→PBC→OK.


## NOTE:

- Start the WPS-PBC on the wireless LAN access point (Registrar) within 2 minutes.

When the WPS operation is successful and the printer is rebooted, wireless LAN connection setting is completed.

## WPS-PIN

The PIN code of WPS-PIN can only be configured from the control panel.


- 1 Press the  button.
- 2 Tap Device→Connectivity→Wi-Fi.
- 3 Tap Manual Setup.
- 4 Tap Wi-Fi Protected Setup (WPS)→PIN.
- 5 Write down the displayed 8-digit PIN code for the wireless LAN access point.
- 6 Tap OK.

## NOTE:

- Enter the PIN code into the wireless LAN access point (Registrar) within 2 minutes.

When the WPS operation is successful and the printer is rebooted, wireless LAN connection setting is completed.

## Auto SSID Setup

1 Press the  button.

2 Tap `Device`→`Connectivity`→`Wi-Fi`.

The printer automatically searches the access points on wireless network.

3 Tap the desired access point.

When you select an access point with no encryption, proceed to step 5.

If the desired access point does not appear, go to "Manual SSID Setup".

### NOTE:

- Some hidden SSID may not be displayed. If the SSID is not detected, turn on SSID broadcast from the router.

4 Enter the login information.

When the encryption type of the selected access point is WEP, WPA2 Personal or Mixed Mode PSK (AES/TKIP) in step 3:

a Enter the password in the `Enter Password` text box.

b Tap `OK`.

When the encryption type of the selected access point is WPA2 Enterprise or Mixed Mode Enterprise (AES/TKIP) in step 3:

a Enter the identity in the `Enter Identity` text box.

b Tap `Next`.

c Enter the user name in the `Enter User Name` text box.


d Tap `Next`.

e Enter the password in the `Enter Password` text box.

f Tap `OK`.

5 If the `Wi-Fi` screen is displayed with the desired access point set to `Connected`, wireless LAN connection setting is complete.

## Manual SSID Setup

1 Press the  button.

2 Tap `Device`→`Connectivity`→`Wi-Fi`.

3 Tap `Manual Setup`.

4 Enter the SSID in the `Enter Network Name (SSID)` text box, and then tap `Enter`.

5 Tap `Network Type` to select the network type from `Infrastructure` and `Ad hoc` depending on your environment.

If you select `Infrastructure`, proceed to step 6.

If you select `Ad hoc`, proceed to step 7.

6 Tap `Security` to select the encryption type from `None`, `WEP`, `WPA2 Personal`, `Mixed Mode Personal (AES/TKIP)`, `WPA2 Enterprise` or `Mixed Mode Enterprise (AES/TKIP)`.

If you do not set security for your wireless network:

a Tap `None`.

To use WEP, WPA2 Personal or Mixed Mode PSK (AES/TKIP):

- a Tap the desired encryption type.
- b Enter the password in the `Enter Password` text box.
- c Tap `Enter`.

To use WPA2 Enterprise or Mixed Mode Enterprise (AES/TKIP):

- a Tap the desired encryption type.
- b Tap `Mode` to select the authentication method from `PEAPv0 MS-CHAPv2`, `EAP-TLS`, `EAP-TTLS/CHAP`, `EAP-TTLS/PAP` or `EAP-TTLS/MSCHAPV2`.

If you select any authentication method for Mixed Mode Enterprise (AES/TKIP) or `PEAPv0 MS-CHAPv2` for WPA2 Enterprise, proceed to substep c.

If you select `EAP-TLS`, `EAP-TTLS/CHAP`, `EAP-TTLS/PAP` or `EAP-TTLS/MSCHAPV2` for WPA2 Enterprise, proper security certificates need to be installed using **Dell Printer Configuration Web Tool**. Follow the instructions displayed when you select the authentication method.

- c Enter the identity in the `Enter Identity` text box.
- d Tap `Next`.
- e Enter the user name in the `Enter User Name` text box.
- f Tap `Next`.
- g Enter the password in the `Enter Password` text box.
- h Tap `Enter`.

Proceed to step 8.

- 7 Tap `Security` to select the encryption type from `None` or `WEP`.

If you do not set security for your wireless network:

- a Tap `None`.

To use WEP:

- a Tap `WEP`.
- b Enter the password in the `Enter Password` text box.
- c Tap `Enter`.

- 8 If the `Wi-Fi` screen is displayed with the desired access point set to `Connected`, wireless LAN connection setting is complete.

## Dell Printer Configuration Web Tool

- 1 Launch the **Dell Printer Configuration Web Tool**. See "Starting the Dell Printer Configuration Web Tool".
- 2 Click **Connectivity**.
- 3 Click **Wi-Fi** under **Connections**.
- 4 Click **Enable** slider to turn it on.
- 5 Enter the SSID in the **SSID** text box.
- 6 Select **Ad hoc** or **Infrastructure** in the **Network Type** drop-down list box.

- 7 Select the encryption type from **No Encryption, WEP, WPA2 Personal, WPA2 Enterprise, Mixed Mode Personal (AES/TKIP) or Mixed Mode Enterprise (AES/TKIP)** in the **Encryption** drop-down list box, and then set each item for the encryption type selected.

 **NOTE:**

- For details on each item, see "Dell Printer Configuration Web Tool".

- 8 Click **OK** to apply the settings.
- 9 Turn off the printer, and then turn it on again.  
Wireless LAN connection setting is complete.

## Reconfiguring the Wireless Settings

To change the wireless settings from your computer, perform the following.

 **NOTE:**

- To change the wireless settings through wireless connection, ensure that the wireless connection setting is completed.

## Reconfiguring the Wireless Settings Using Dell Printer Configuration Web Tool

- 1 Launch the **Dell Printer Configuration Web Tool**. See "Starting the Dell Printer Configuration Web Tool".
- 2 Click **Connectivity**.
- 3 Click **Wi-Fi** under **Connections**.
- 4 Change the wireless settings of the printer.
- 5 Reboot the printer.
- 6 Change the wireless settings on your computer or access point accordingly.

 **NOTE:**

- To change the wireless settings on your computer, refer to the manuals provided with the wireless adapter or if your computer provides a wireless adapter tool, change the wireless settings using that tool.

# Setting the IP Address

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## Assigning an IP Address

You can select the IP mode from Dual Stack, IPv4, and IPv6. If your network supports both IPv4 and IPv6, select Dual Stack.

Select the IP mode of your environment, and then set IP address, subnet mask (for IPv4 only), and gateway address.


### CAUTION:

- Assigning an IP address that is already in use can cause network communication issues.

### NOTE:

- Assigning an IP address is considered as an advanced function and is normally done by a system administrator.
- When you assign an IP address manually in IPv6 mode, use the **Dell Printer Configuration Web Tool**. To display the **Dell Printer Configuration Web Tool**, use the link-local address. To confirm the link-local address, print a configuration report and check the IPv6 link-local address. See "Information Pages".

## Assigning an IPv4 Address Using the Control Panel

- 1 Press the  button.
- 2 Tap Device → Connectivity.
- 3 Do either of the following:  
*If the printer is connected to a network with the Ethernet cable:*  
Tap Ethernet.  
*If the printer is connected to a wireless network:*  
Tap Wi-Fi, and then tap the desired network.
- 4 Tap IPv4.
- 5 Tap the Enable IPv4 slider to turn it on.  
Make sure that Mode is set to STATIC.
- 6 Tap IPv4 Address.
- 7 Enter the IPv4 address using the number pad, and then tap Enter.
- 8 Tap Gateway Address.
- 9 Enter the gateway address using the number pad, and then tap Enter.
- 10 Tap Subnet Mask.
- 11 Enter the subnet mask using the number pad, and then tap Enter.
- 12 Tap OK, or tap Restart if you change the mode in Step 5.

## Verifying the IP Settings

You can confirm the settings by using the control panel or printing the configuration report.

### Verifying the IPv4 Settings Using Control Panel

- 1 Press the  button.
- 2 Tap `Device` → `About`.
- 3 Verify the IP address displayed in `IPv4`: under `Network`.

### Verifying the IPv4 Settings Using Configuration Report

- 1 Print the configuration report.
- 2 Verify the correct IPv4 IP address, subnet mask and gateway address are listed in the configuration report.

If the IP address shows `0 . 0 . 0 . 0` (the factory default), an IP address has not been assigned. To assign one for your printer, see "Assigning an IPv4 Address Using the Control Panel".

# Installing Printer Drivers on Windows<sup>®</sup> Computers

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## Identifying Printer Driver Pre-install Status

Before installing the printer driver on your computer, check the IP address of your printer.

## Changing the firewall settings before installing your printer

If you are running one of the following operating systems, you must change the firewall settings before installing the Dell<sup>™</sup> printer software:

- Microsoft<sup>®</sup> Windows Vista<sup>®</sup>
- Windows<sup>®</sup> 7
- Windows<sup>®</sup> 8
- Windows<sup>®</sup> 8.1
- Windows<sup>®</sup> 10
- Windows Server<sup>®</sup> 2008
- Windows Server<sup>®</sup> 2008 R2
- Windows Server<sup>®</sup> 2012
- Windows Server<sup>®</sup> 2012 R2

The following procedure uses Windows<sup>®</sup> 10 as an example.

- 1 Insert the *Software and Documentation* disc into your computer.
- 2 Right-click **Start**→**Control Panel**.
- 3 Select **System and Security**.
- 4 Click **Allow an app through Windows Firewall**.
- 5 Click **Change settings**→**Allow another app**.
- 6 Check **Browse**.
- 7 Type `D:\Setup.exe` (where D is the drive letter of the optical drive) in the **File name** text box, and then click **Open**.
- 8 Click **Add**, and then click **OK**.

## Starting Dell Printer Easy Install

- 1 Make sure that the printer is turned on.
- 2 Insert the *Software and Documentation* disc provided with the printer into your computer. The **Dell Printer Easy Install** program launches automatically.



### NOTE:

- If the **Dell Printer Easy Install** program does not launch automatically, follow the procedure below.

The following procedure uses Windows<sup>®</sup> 10 as an example.

- a Right-click the Start button, and then click **Run**.



b Enter `D:\Setup.exe` (where D is the drive letter of the optical drive), and then click **OK**.

3 Click **Main Menu**.

The main menu window appears.

## USB Cable Connection Setup

### For installing PCL and PS printer driver

1 In the main menu window of **Dell Printer Easy Install**, click **Connect**.

2 Select **USB Cable Connection**, and then click **Next**.

The Plug and Play installation starts and the installation software proceeds to the next page automatically.

3 Click **Finish** to exit the wizard when the **Ready to Print!** screen appears.

If you want to verify installation, click **Print Test Page** before clicking **Finish**.

### For installing XML Paper Specification (XPS) printer driver



#### NOTE:

- XML Paper Specification (XPS) driver is supported on Windows Vista® or later.

### Windows® 10

1 Insert the *Software and Documentation* disc into your computer.

2 Right-click the Start button, and then click **Control Panel**.

3 Click **Hardware and Sound**→**Devices and Printers**→**Add a printer**.

4 Click **The printer that I want isn't listed**.

5 Select **Add a local printer or network printer with manual settings**→**Next**→**Next**→**Have Disk**→**Browse**.

6 Type `D:\Software\XPS\i386_amd64` (where D is the drive letter of the optical drive) in the **File name** text box, and then click **Open**.

7 Select the inf file in the desired language folder, and then click **OK**.

8 Select the printer name, and then click **Next**.

If you want to change the printer name, enter the printer name in the **Printer name** box, and then click **Next**.

9 When the driver installation is completed, click **Print a test page** to verify installation. If you want to use this printer as the default printer, select the **Set as the default printer** check box.


10 Click **Finish**.

# Network Connection Setup

## NOTE:

- To use this printer in a Linux environment, you need to install a Linux driver.

## For installing PCL and PS printer driver

- 1 In the main menu window of **Dell Printer Easy Install**, click **Connect**.
- 2 Select **Wireless or Ethernet Connection**, and then click **Next**.
- 3 Select the printer you want to install from the printer list, and then click **Next**. If the target printer is not displayed on the list, click the  button to refresh the list or click **add printer manually** to add a printer to the list manually. You may specify the IP address and port name at this point.

## NOTE:

- To enable the automatic search for network printers on the computer running a client operating system (Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 or Windows® 10), go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → **Advanced sharing settings**, and set **Network discovery** for the current network profile to **Turn on network discovery**.
  - In some cases, **Windows Security Alert** is displayed in this step when you use Windows Vista®, Windows Vista® 64-bit Edition, Windows Server® 2008, Windows Server® 2008 64-bit Edition, Windows Server® 2008 R2, Windows® 7, Windows® 7 64-bit Edition, Windows® 8, Windows® 8 64-bit Edition, Windows® 8.1, Windows® 8.1 64-bit Edition, Windows Server® 2012, Windows Server® 2012 R2 and Windows® 10. In this case, select **Unblock (Allow access** for Windows Server® 2008 R2, Windows® 7 and Windows® 10), and then continue the procedure.
- 4 Specify the printer settings, and then click **Next**.
    - a Enter the printer name.
    - b If you want to set the printer as the default printer, select the **Set this printer as default** check box.
    - c If you want to install the PostScript 3 printer driver, select the **PS Driver** check box.
    - d If you want other users on the network to access the printer, select **Share this printer with other computers on the network**, and then enter a share name that users can identify.
  - 5 Click **Finish** to exit the wizard when the **Ready to Print!** screen appears.  
If you want to verify installation, click **Print Test Page** before clicking **Finish**.

## For installing XML Paper Specification (XPS) printer driver

## NOTE:

- XML Paper Specification (XPS) driver is supported on Windows Vista® or later.

## Windows® 10

- 1 Insert the *Software and Documentation* disc into your computer.
- 2 Right-click the Start button, and then click **Control Panel**.
- 3 Click **Hardware and Sound** → **Devices and Printers** → **Add a printer**.
- 4 Click **The printer that I want isn't listed**.

- 5 Click **Add a local printer or network printer with manual settings**→**Next**→**Next**→**Have Disk**→**Browse**.
- 6 Type `D:\Software\XPS\i386_amd64` (where D is the drive letter of the optical drive) in the **File name** text box, and then click **Open**.
- 7 Select the inf file in the desired language folder, and then click **OK**.
- 8 Select your printer name, and then click **Next**.  
If you want to change the printer name, enter the printer name in the **Printer name** box, and then click **Next**.
- 9 When the driver installation is completed, click **Print a test page** to verify installation. If you want to use this printer as the default printer, select the **Set as the default printer** check box.
- 10 Click **Finish**.

## Setting Up for Shared Printing

You can share your USB connected printer with other computers (clients) on the same network.

To share your USB connected printer, enable shared printing when installing the printer driver. You can also enable shared printing by following the procedures below.

## Enabling Shared Printing from the Computer

### For Windows® 10

- 1 Right-click the Start button, and then click **Control Panel**→**Hardware and Sound**→**Devices and Printers**.
- 2 Right-click the printer icon and select **Printer properties**.
- 3 On the **Sharing** tab, click **Change Sharing Options** if exists.
- 4 Select the **Share this printer** check box, and then type a name in the **Share name** text box.
- 5 Click **Additional Drivers** and select the operating systems of all network clients using this printer.
- 6 Click **Apply**, and then click **OK**.

## Checking the Shared Printer

To confirm that the printer is properly shared:

- Ensure that the printer object in the **Printers, Printers and Faxes**, or **Devices and Printers** folder is shared. The shared icon is shown under the printer icon.
- From a network client, browse **Network** or **My Network Places**. Find the host name of the server and the shared name you assigned to the printer.

After you have checked that the printer is shared, use methods such as Windows® Point and Print to use the shared printer from a network client.

 **NOTE:**

- If the OS bit editions (32/64 bit edition) differ between a print server and a client computer, you need to manually add the printer driver for the client computer edition on the server. Otherwise, the printer driver cannot be installed on the client computer using methods such as Point and Print. For example, if the print server runs on Windows Vista® 32-bit edition, while the client computer runs on Windows® 7 64-bit edition, follow the procedures below to additionally install the printer driver for 64-bit client on the 32-bit server.
  - a Click **Additional Drivers** on the screen for sharing printers.  
For details about how to display this screen, see "Enabling Shared Printing from the Computer".
  - b Select the **x64** check box, and then click **OK**.
  - c Insert the *Software and Documentation* disc into your computer.
  - d Click **Browse** to specify the folder that contains the 64-bit OS driver, and then click **OK**.  
Installation starts.

# Installing Printer Drivers on Macintosh Computers

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## Installing the Drivers and Software

- 1 Run the *Software and Documentation* disc on the Macintosh computer.
- 2 Double-click **Dell s3840cdn Installer.pkg**, and then click **Continue**.
- 3 When the popup dialog box prompts you for confirming the program included in the installation package, click **Continue**.
- 4 Click **Continue** on the **Important Information** screen.
- 5 Select a language for the **Software License Agreement** screen.
- 6 After reading the **Software License Agreement**, click **Continue**.
- 7 If you agree to the terms of the **Software License Agreement**, click **Agree** to continue the installation process.
- 8 Confirm the installation location.
- 9 Click **Install**.
- 10 Type the administrator's name and password, and then click **Install Software**.
- 11 When the message **The installation was successful.** appears, click **Close**.

## Adding a Printer on Mac OS X


The following procedure uses OS X 10.10 as an example.

### When Using a USB connection

- 1 Turn on the printer.
- 2 Connect the USB cable between the printer and the Macintosh computer.  
The printer is automatically added to your Macintosh computer.


### When Using IP Printing

- 1 Turn on the printer.
- 2 Ensure that Macintosh computer and the printer are connected via network.  
If you use wired connection, connect the LAN cable between the printer and the network.  
If you use wireless connection, ensure that wireless connection is configured properly on your Macintosh computer and the printer.
- 3 Open the **System Preferences**, and then click **Printers & Scanners**.
- 4 Click the Plus (+) sign, and then click **IP**.
- 5 Select **Line Printer Daemon - LPD** for **Protocol**.

- 6 Type the IP address for the printer in the **Address** area.
- 7 Select **Dell Color Printer S3840cdn v3018.103 PS** for **Use**.
  -  **NOTE:**
    - When printing is set up using IP printing, the queue name is displayed as blank. You do not need to specify it.
- 8 Click **Add**.
- 9 Specify the options that have been installed on the printer, and then click **Continue**.
- 10 Confirm that the printer is displayed in the **Printers & Scanners** dialog box.

## When Using Bonjour

- 1 Turn on the printer.
- 2 Ensure that Macintosh computer and the printer are connected via network.  
If you use wired connection, connect the LAN cable between the printer and the network.  
  
If you use wireless connection, ensure that wireless connection is configured properly on your Macintosh computer and the printer.
- 3 Open the **System Preferences**, and then click **Printers & Scanners**.
- 4 Click the Plus (+) sign, and then click **Default**.
- 5 Select the printer connected via Bonjour from the **Name** list.
- 6 **Name** and **Use** are automatically entered.

-  **NOTE:**
  - If **AirPrint Printer** is automatically selected for **Print Using** (or **Use**), select **Dell Color Printer S3840cdn v3018.103 PS** manually.

- 7 Click **Add**.
- 8 Specify the options that have been installed on the printer, and then click **Continue**.
- 9 Confirm that the printer is displayed in the **Printers & Scanners** dialog box.

## Configuring Settings

- 1 Open the **System Preferences**, and click **Printers & Scanners**.
- 2 Select the printer in the **Printers** list, and click **Options & Supplies**.
- 3 Select **Options**, select the options that can be configured for the printer, and then click **OK**.

# Installing Printer Drivers on Linux Computers (CUPS)

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This section provides information for installing or setting up the printer driver with CUPS (Common UNIX Printing System) on Red Hat Enterprise Linux 6 Desktop (32/64bit), SUSE Linux Enterprise Desktop 11 (32/64bit), or Ubuntu 12.04 LTS (32/64bit).

## Operation on Red Hat Enterprise Linux 6 Desktop

### Setup Overview

- 1 Install the printer driver.
- 2 Set up the print queue.
- 3 Specify the default queue.
- 4 Specify the printing options.

### Installing the Printer Driver

- 1 Select **Applications**→**System Tools**→**Terminal**.
- 2 Type the following command in the terminal window.

```
su
(Type the administrator password)
rpm -ivh (Type the file
path)/Dell-Color-Printer-S3840cdn-*. *-*.noarch.r
pm
```

The printer driver is installed.

### Setting Up the Queue

To execute printing, you must set up the print queue on your workstation.

- 1 Open the URL "**http://localhost:631**" using a web browser.
- 2 Click **Administration**.
- 3 Click **Add Printer**.
- 4 Type `root` as the user name, type the administrator password, and click **OK**.  
For network connections:
  - a Select **LPD/LPR Host or Printer** from the **Other Network Printers** menu, and click **Continue**.
  - b Type the IP address of the printer in **Connection**, and click **Continue**.  
Format: `lpd://xxx.xxx.xxx.xxx` (the IP address of the printer)

For USB connections:

- a Select **Dell Color Printer S3840cdn** from the **Local Printers** menu, and click **Continue**.

- 5 Type the name of the printer in the **Name** box in the **Add Printer** window, and click **Continue**.

You can optionally specify the location and description of the printer for further information.

If you want to share the printer, select the **Share This Printer** check box.

- 6 Select **Dell** from the **Make** menu, and click **Continue**.
- 7 Select **Dell Color Printer S3840cdn vXXXX PS** from the **Model** menu, and click **Add Printer**.

The setup is complete.

## Printing From the Applications

When you have finished setting up the queue, you can print jobs from the applications. Start the print job from the application, and specify the queue in the print dialog box.

However, sometimes you can print only from the default queue depending on the application (for example Mozilla). In these cases, before you start printing, set queue you want to print to as the default queue.

## Setting the Default Queue

- 1 Select **Applications**→**System Tools**→**Terminal**.
- 2 Type the following command in the terminal window.

```
su
(Type the administrator password)
lpadmin -d (Type the queue name)
```

## Specifying the Printing Options

- 1 Open the URL "**http://localhost:631**" using a web browser.
- 2 Click **Administration**.
- 3 Click **Manage Printers**.
- 4 Click the queue name for which you want to specify the printing options.
- 5 Select **Set Default Options** from the **Administration** menu.
- 6 Click the desired setting item, specify the required settings, and click **Set Default Options**.

The message **Printer xxx default options have been set successfully**. appears.

The setting is complete.

## Uninstalling the Printer Driver

- 1 Select **Applications**→**System Tools**→**Terminal**.



- 2 Type the following command in the terminal window to delete the print queue.

```
su
(Type the administrator password)
/usr/sbin/lpadmin -x (Type the print queue name)
```

- 3 Repeat the command above for all queues for the same model.
- 4 Type the following command in the terminal window.

```
su
(Type the administrator password)
rpm -e Dell-Color-Printer-S3840cdn
```

The printer driver is uninstalled.

## Operation on SUSE Linux Enterprise Desktop 11

### Setup Overview

- 1 Install the printer driver.
- 2 Set up the print queue.
- 3 Specify the default queue.
- 4 Specify the printing options.

### Installing the Printer Driver

- 1 Select **Computer**→**More Applications...** and select **GNOME Terminal** on the Application Browser.
- 2 Type the following command in the terminal window.

```
su
(Type the administrator password)
rpm -ivh (Type the file path)/
Dell-Color-Printer-S3840cdn-*. *-*.noarch.rpm
```


The printer driver is installed.

### Setting Up the Queue


To execute printing, you must set up the print queue on your workstation.

- 1 Select **Computer**→**More Applications...**, and select **YaST** on the Application Browser.
- 2 Type the administrator password, and click **Continue**.  
**YaST Control Center** is activated.
- 3 Select **Hardware** on **YaST Control Center**, and select **Printer**.  
The **Printer Configurations** dialog box opens.

For network connections:

- a Click **Add**.  
The **Add New Printer Configuration** dialog box opens.
- b Click **Connection Wizard**.  
The **Connection Wizard** dialog box opens.
- c Select **Line Printer Daemon (LPD) Protocol** from **Access Network Printer or Printserver Box via**.
- d Type the IP address of the printer in **IP Address or Host Name:**.
- e Select **Dell** in the **Select the printer manufacturer:** drop-down menu.
- f Click **OK**.  
The **Add New Printer Configuration** dialog box appears.
- g Select **Dell Color Printer S3840cdn vXXXX PS [Dell/Dell\_Color\_PrinterS3840cdn.ppd.gz]** from the **Assign Driver** list.  
 **NOTE:**
  - You can specify the printer name in **Set Name:**.
- h Confirm the settings, and click **OK**.

For USB connections:

- a Click **Add**.  
The **Add New Printer Configuration** dialog box opens.  
The printer name is displayed in the **Determine Connection** list.
- b Select **Dell Color Printer S3840cdn vXXXX PS [Dell/Dell\_Color\_PrinterS3840cdn.ppd.gz]** from the **Assign Driver** list.  
 **NOTE:**
  - You can specify the printer name in **Set Name:**.
- c Confirm the settings, and click **OK**.

## Printing From the Applications

When you have finished setting up the queue you can print jobs from the applications. Start the print job from the application, and specify the queue in the print dialog box. However, sometimes you can print only from the default queue depending on the application (for example Mozilla). In these cases, before you start printing, set queue you want to print to as the default queue.

## Setting the Default Queue

You can set the default queue when you add the printer.

- 1 Select **Computer**→**More Applications...**, and select **YaST** on the Application Browser.
- 2 Type the administrator password, and click **Continue**.  
**YaST Control Center** is activated.
- 3 Select **Hardware** on **YaST Control Center**, and select **Printer**.  
The **Printer Configurations** dialog box opens.
- 4 Click **Edit**.  
A dialog box to modify the specified queue opens.

- 5 Confirm that the printer you want to set is selected in the **Connection** list.
- 6 Select the **Default Printer** check box.
- 7 Confirm the settings, and click **OK**.

## Specifying the Printing Options

- 1 Open a web browser.
- 2 Type **http://localhost:631/admin** in **Location**, and press <Enter>.
- 3 Click **Manage Printers**.
- 4 Click **Set Printer Options** of the printer for which you want to specify the printing options.
- 5 Specify the required settings, and click **Set Printer Options**.
- 6 Type `root` as the user name, type the administrator password, and click **OK**.

### **NOTE:**

- Set the password for authority as the printer administrator before setting the printer queue. If you have not set it, go to "Setting the Password for Authority as the Printer Administrator".

The message **Printer xxx has been configured successfully**. appears.

The setting is complete. Execute printing from the application.

## Setting the Password for Authority as the Printer Administrator

You must set the password for authority as the printer administrator to do operations as the printer administrator.

- 1 Select **Computer**→**More Applications...** and select **GNOME Terminal** on the Application Browser.
- 2 Type the following command in the terminal window.

```
su
(Type the administrator password)
lppasswd -g sys -a root
(Type the password for authority as the printer administrator
after the Enter password prompt.)
(Retype the password for authority as the printer administrator
after the Enter password again prompt.)
```

## Uninstalling the Printer Driver

- 1 Select **Computer**→**More Applications...** and select **GNOME Terminal** on the Application Browser.
- 2 Type the following command in the terminal window to delete the print queue.

```
su
(Type the administrator password)
/usr/sbin/lpadmin -x (Type the print queue name)
```

- 3 Repeat the command above for all queues for the same model.
- 4 Type the following command in the terminal window.

```
su
(Type the administrator password)
rpm -e Dell-Color-Printer-S3840cdn
```

The printer driver is uninstalled.

## Operation on Ubuntu 12.04 LTS

### Setup Overview

- 1 Install the printer driver.
- 2 Set up the print queue.
- 3 Specify the default queue.
- 4 Specify the printing options.

### Installing the Printer Driver

- 1 Click **Dash Home**, and enter terminal in the **Search** text box.
- 2 Click **Terminal** in the **Applications** category of the search results.
- 3 Type the following command in the terminal window.

```
sudo dpkg -i (Type the file
path)/dell-color-printer-s3840cdn_*.deb
(Type the administrator password)
```

The printer driver is installed.

### Setting Up the Queue

To execute printing, you must set up the print queue on your workstation.

- 1 Open the URL "**http://localhost:631**" using a web browser.
- 2 Click **Administration**.
- 3 Click **Add Printer**.
- 4 Type the user name and the administrator password, and click **OK**.
- 5 Select either of the following according to the type of your printer connection.  
For network connections:
  - a Select **LPD/LPR Host or Printer** from the **Other Network Printers** menu, and click **Continue**.
  - b Type the IP address of the printer in **Connection**, and click **Continue**.  
Format: `lpd://xxx.xxx.xxx.xxx` (the IP address of the printer)

For USB connections:

- a Select **Dell Color Printer S3840cdn** from the **Local Printers** menu, and click **Continue**.
- 6 Type the name of the printer in the **Name** box in the **Add Printer** window, and click **Continue**.

You can optionally specify the location and description of the printer for further information.

If you want to share the printer, select the **Share This Printer** check box.

- 7 Select **Dell** from the **Make** menu, and click **Continue**.
- 8 Select **Dell Color Printer S3840cdn vXXX PS** from the **Model** menu, and click **Add Printer**.

The setup is complete.

## Printing From the Applications

When you have finished setting up the queue, you can print jobs from the applications. Start the print job from the application, and specify the queue in the print dialog box.

However, sometimes you can print only from the default queue depending on the application (for example Mozilla). In these cases, before you start printing, set queue you want to print to as the default queue.

## Setting the Default Queue

- 1 Click **Dash Home**, and enter terminal in the **Search** text box.
- 2 Click **Terminal** in the **Applications** category of the search results.
- 3 Type the following command in the terminal window.

```
sudo lpadmin -d (Type the queue name)
(Type the administrator password)
```

## Specifying the Printing Options

- 1 Open the URL "**http://localhost:631**" using a web browser.
- 2 Click **Administration**.
- 3 Click **Manage Printers**.
- 4 Click the queue name for which you want to specify the printing options.
- 5 Select **Set Default Options** from the **Administration** menu.
- 6 Click the desired setting item, specify the required settings, and click **Set Default Options**.

The message **Printer xxx default options have been set successfully**. appears.

The setting is complete.

## Uninstalling the Printer Driver

- 1 Click **Dash Home**, and enter `terminal` in the **Search** text box.
- 2 Click **Terminal** in the **Applications** category of the search results.
- 3 Type the following command in the terminal window to delete the print queue.

```
sudo /usr/sbin/lpadmin -x (Type the print queue name)
(Type the administrator password)
```

- 4 Repeat the command above for all queues for the same model.
- 5 Type the following command in the terminal window.

```
sudo dpkg -r dell-color-printer-s3840cdn
(Type the administrator password)
```

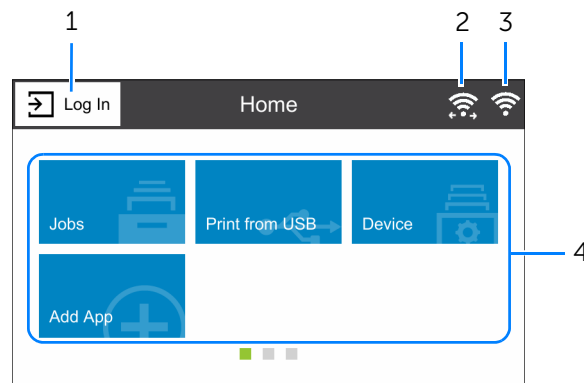
The printer driver is uninstalled.

# Using Your Printer

# Control Panel

---

## About the Home Screen



1	Log In	3	Wireless LAN Connection Status Icon
2	Wi-Fi Direct Connection Status Icon	4	Tiles

### Log In

Select this button to log in.

### Wi-Fi Direct Connection Status Icon

Displays the Wi-Fi Direct connection status. This icon is displayed only when Wi-Fi Direct is enabled.

- : Connected
- : Disconnected

### Wireless LAN Connection Status Icon

Displays the intensity of wireless signal when the printer is connected to a wireless network.

### Tiles

Displays the tiles of the functions you can select from.

## Basic Operations on the Touch Panel

You can operate the touch panel as with a smart phone or a tablet.

### To Select the Item on the Screen

Tap the item.

### To Scroll the Screen or the Listed Items

Swipe the screen by dragging your finger on the screen.



To scroll faster, flick the screen.

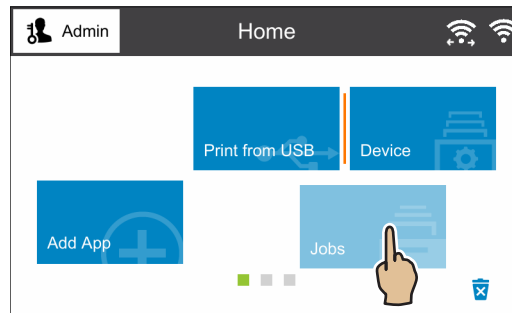
**NOTE:**

- You cannot swipe or flick on some screens depending on the screen design and specifications. In this case, operate by tapping the buttons shown on the screen.

## Moving, Adding or Removing the Tiles

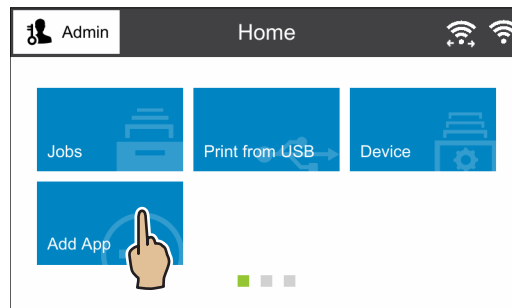
### To Move the Tiles

Tap and hold the tile you want to move, and drag it to the desired place.



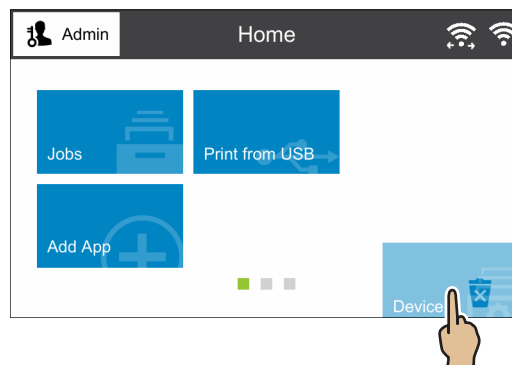
### To Add the Tiles

Tap Add App and select the item you want to add.



### To Remove the Tiles









Tap and hold the tile you want to remove, and drag it to the trash box icon.



## Using the Keyboard Displayed on the Touch Panel

During operations, a keyboard for entering text sometimes appears. The following

describes how to enter text.

Item	Description
Entering alphabets	To enter uppercase letters, tap  . To return to the lowercase letters, tap  again. To lock to the uppercase letters, double-tap  . To enter the accented versions of each letter, tap and hold the key for the letter you want to accent and select the desired letter.
Entering numbers and symbols	Tap 
Entering a space	Tap 
Deleting characters	Tap  to delete one character at a time.
Changing the language	Tap 
Closing the keyboard	Tap 

## Changing the Language and Keyboard Layout

To change the language and keyboard layout used on the touch panel:

- 1 On the Home screen, select `Device`.
- 2 Select `Language`.
- 3 See "Language" to change the language and keyboard layout.
- 4 Select `OK` on the `Language` screen to save the settings.

## Setting the Power Saver Timers

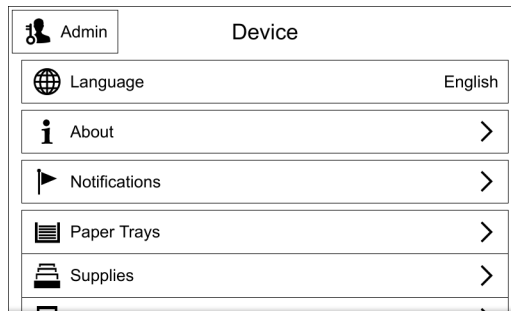
You can set the power saver timers for the printer. The printer enters the power saver mode when the printer is not used for a certain period of time.

- 1 On the Home screen, select `Device`.
- 2 Select `General`, and then `Power Saver`.
- 3 See "Power Saver" to change the values of `Low Power Timeout` and `Sleep Timeout`.
- 4 Select `OK`.

# Device

---

The *Device* app allows you to view the printer status and set the general settings of the printer.



 **NOTE:**

- The displayed features may vary depending on your settings.
- You can scroll the feature list up and down.

## Language

### Language

Select the language you want to use on the touch panel.

### Keyboard Layout

Select a keyboard layout on the touch panel.

To preview the layout, tap *View Keyboard*.

## About

Displays the general, contact, and network information of the printer.

## Information Pages

Allows you to print reports or lists.

- Configuration Report
- Billing Summary Report
- Supplies Usage Report
- ColorTrack Account Report
- PostScript Font List
- PCL Font List
- Demonstration Print
- Startup Page
- Job History Report

## Notifications

Displays the notifications from the printer such as the fault status, replacement period,

and other important messages in the order of severity.  
You can check the details or associated pages by selecting each notification.

## Fault History

Selecting `History` displays `Fault History`.  
The faults are displayed from newest to oldest in descending order.

## Paper Trays

See "Trays".

## Supplies

See "Supplies".

## Billing/Usage

Selecting `Billing/Usage` allows you to check the billing information. The `Billing/Usage` screen shows `Serial Number`, `Counter` and `Usage Counters`.  
In the `Usage Counters` screen, you can check the detailed usage counters. You can filter the counters by setting the filter (set to `All` by default) over the counter.

## General

### Measurements

#### Units

Allows you to select a unit of measurement displayed on the screen from `Millimeters` and `Inches`.

#### Paper Size Preference

Allows you to select the unit of default paper size to be used for printer settings.  
To use the A4 size paper for the following printer settings by default and to set the `Units` setting to `Millimeters`, select `Metric`.  
To use the Letter size paper for the following printer settings by default and to set the `Units` setting to `Inches`, select `Inch`.

- Default paper size for printing
- Default custom paper sizes displayed on the screen for each paper tray
- Default paper size of each paper tray and the bypass tray

### Date & Time

Set the date and time for the system clock of the machine. The date and time set here will be printed on all lists and reports.

#### Set Automatically

Select this to set the date and time automatically according to the time server.

If you do not select this, you can set the time zone, date and time, and daylight saving time manually.

## **Time Server (SNTP)**

Tap this to set the time server.

### ***Server Address***

Enter a server address.

## **Time Zone**

Sets the region and time zone.

## **Date & Time**

Sets the date and time.

## **Daylight Savings Time**

Select this to enable daylight saving time.

## **Date Format**

Select a date format.

- mm/dd/yyyy
- dd/mm/yyyy
- yyyy/mm/dd

## **Use 24 Hour Clock**

Select this to use 24-hour clock. To use 12-hour clock, deselect this.

## **System Timeout**

Specify the time lapsed without any operation on the control panel until the machine resets the settings automatically.

## **Display Brightness**

You can adjust the brightness of the touch panel between level 1 and level 7.

## **Sounds**

### **Enable Sounds**

Select this to activate sounds. Touch an event, and use the slider bar to set the volume of the sound.

### ***Touch***

Sounds when you touch an item on a screen displayed on the control panel correctly.

### ***Job Completion***

Sounds when a job is completed successfully.

## **Login**

Sounds when you log in to the printer.

## **Error \ Fault**

Sounds when a job fails or an error occurs.

## **Power**

Sounds when the machine is ready for operation, or is powered on.

## **Mobile Device Connected**

Sounds when the printer detects a mobile device.

## **Power Saver**

The Power Saver mode has two modes: Low Power and Sleep. When a specified period of time has elapsed, the machine switches to these modes in the following order to reduce power consumption.

Last operation on the machine → Low Power mode → Sleep mode.

### **NOTE:**

- For Low Power Timeout and Sleep Timeout, you can enter values of up to 60 minutes in total.

## **Low Power Timeout**

Specify a time period to enter the Low Power mode after the last operation.

## **Sleep Timeout**

Specify a time period to enter the Sleep mode after entering the Low Power mode.

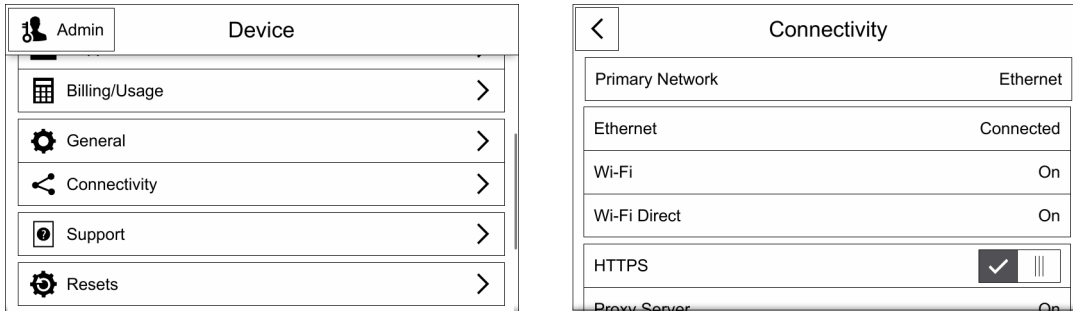
## **Auto Power Off**

Select this to automatically turn the printer off after a specified time has elapsed from the Sleep mode. Use the slider bar to specify a value for turning the printer off.

- **Always Allowed**  
Turns the printer off when the specified time has elapsed.
- **Allowed ONLY When Conditions are Met**  
Turns the printer off only when the following conditions are all met during the time you specified.
  - The USB device port is not used.
  - The wired network port is not used.
  - The wireless connection is not used.

# Connectivity

To open the screen, scroll the feature list on the *Device* screen and select *Connectivity*.



## NOTE:

- The displayed features may vary depending on your settings.
- You can scroll the feature list up and down.
- When wired and wireless connections are used at the same time, it is recommended to use different subnets for the primary and secondary interfaces.  
Either the wired or wireless connection can be designated as the primary network interface.  
Only the primary network interface can use the following protocols:  
IPsec, SMTP/POP, SNTP, WSD Scan\*, Scan To (Email/Network/ FTP), LDAP, UPnP Discovery, Email Notifications, FTP Server, WebDAV, App Platform Web Services  
\*: WSD stands for Web Services on Devices.

## Primary Network

Displays *Ethernet* or *Wi-Fi*. You can switch between these options when using multiple interface.

## Ethernet

### IPv4

#### **Enable IPv4**

Select this to enable the IPv4 mode.

#### **Mode**

Select a mode.

- **DHCP**  
The address, subnet mask, and gateway address will automatically be set via DHCP.
- **BOOTP**  
The address, subnet mask, and gateway address will automatically be set via BOOTP.

#### NOTE:

- This is displayed only when this option is configured on **Dell Printer Configuration Web Tool**.
- **STATIC**  
The address, subnet mask, and gateway address will manually be set.

**Host Name**

Enter a host name.

**IPv4 Address**

Displays the IP address.

**Gateway Address**

Displays the gateway address.

**Subnet Mask**

Displays the subnet mask.

**IPv6****Enable IPv6**

Select this to enable the IPv6 mode.

**Host Name**

Enter a host name.

**Link-Local Address**

Displays the Link-Local address.

**Self-Assigned Address**

Displays the self-assigned address.

**Manual Address**

Allows you to enter an address.

**DHCPv6 Configuration**

Select a purpose of using DHCPv6.

- Direct by Router
- Address Assignment and Configuration
- Configuration Data

**DNS****Host Name**

Displays the host name.

**Domain Name**

Enter a domain name.

**IPv4 Servers**

Tap this to set addresses.



### **Mode**

Select a mode from DHCP and STATIC.

### **Primary Server, Alternate Server 1, Alternate Server 2**

Set DNS server addresses.

### **IPv6 Servers**

Tap this to set addresses.

### **Mode**

Select a mode from DHCP and STATIC.

### **Primary Server, Alternate Server 1, Alternate Server 2**

Set DNS server addresses.

### **Rated Speed**

Select a communication speed for the Ethernet interface.

- Auto
- 10Mbps Half Duplex
- 10Mbps Full Duplex
- 100Mbps Half Duplex
- 100Mbps Full Duplex
- 1Gbps Full Duplex

### **Wi-Fi**

#### **Wi-Fi**

To specify whether to enable the Wi-Fi feature.

From the networks displayed, select a network. For secured network, login is required.

#### **Manual Setup**

Tap this to set up manually.

#### **Enter Network Name (SSID)**

To set the name that identifies the wireless network with up to 33 alphanumeric characters.

#### **Network Type**

To set the type of wireless network. Select *Infrastructure* when you configure the wireless settings through the access point such as a wireless router. Select *Ad hoc* to configure the wireless settings without the access point such as a wireless router.

#### **Security**

Select a type of encryption.

- None

- WEP
- WPA2 Personal
- Mixed Mode Personal (AES/TKIP)
- WPA2 Enterprise
- Mixed Mode Enterprise (AES/TKIP)

 **NOTE:**

- When Network Type is set to Ad hoc, WPA2 Personal and WPA2 Enterprise are not available.

### **Wi-Fi Protected Setup (WPS)**

Select PBC to configure the network with WPS-PBC.

Select PIN to configure the network using PIN code assigned automatically by the printer.

### **PIN**

Displays a pin code.

### **Mode**

For WPA2 Enterprise or Mixed Mode Enterprise (AES/TKIP), specifies the EAP authentication method used for WPA Enterprise.

- PEAPv0 MS-CHAPv2
- EAP-TLS
- EAP-TTLS/CHAP
- EAP-TTLS/PAP
- EAP-TTLS/MSCHAPV2

### **Enter Identity, Enter User Name, Enter Password**

Enter an EAP-identity, a user name, and a password respectively for authentication. The identity can be the same string as the user name.

### **Wi-Fi Band**

To select the Wi-Fi Band.

- Auto
- 2.4 Ghz
- 5 Ghz

### **Wi-Fi Direct**

#### **Wi-Fi Direct**

Select this to enable the Wi-Fi Direct network.

 **NOTE:**

- In multi-interface environment, Wi-Fi Direct becomes disabled if the address range is duplicated with Ethernet or Wi-Fi.

#### **Device Name:**

Displays the device name.

This appears when `Group Role` is set to `Auto`.

### **IPv4 Address:**

Displays the IPv4 address.

### **Connections:**

Displays the number of connections.

## **Setup**

Tap this for Wi-Fi Direct settings.

### **Group Role**

Select `Auto` to automatically resolve the group role for Wi-Fi Direct according to the group formation.

Select `Group Owner` to make it possible for your Wi-Fi mobile devices to discover this printer. The SSID of the printer will then be displayed in a list of wireless networks on your Wi-Fi mobile devices.

### **Device Name**

Enter a device name. This appears when `Group Role` is set to `Auto`.

### **SSID Prefix**

Displays the prefix of SSID.

### **SSID Suffix**

Specify the suffix of SSID.

### **Passcode**

Enter the passcode to be used when the printer is `Group Owner`.

### **IPv4 Address**

Displays the IPv4 address.

## **HTTPS**

Select this to enable HTTPS.

## **Proxy Server**

### **Proxy Server**

Select this to enable proxy server settings.

### **Proxy Connections**

Select a type of proxy connections. This is displayed when you are using multiple interface.

- Common
- Multiple

## **Wireless Proxy Setup**

### **Enable Proxy Server**

For `Multiple`, select this to enable the proxy server for wireless connection.

### **Setup**

Select a type of settings.

### **Automatic**

Select this to automatically set up the proxy.

### **Configuration Script**

Select this to allow you to enter the URL of a configurations script.

### **Manual**

Select this to enter a server address in `Server Address`. When enabling `Password Required`, enter the login name and password.

### **Add Exceptions**

Enter an address that is not to use the proxy.

To remove the address, tap the trash box icon and select `Remove Exception`.

To edit the address, tap the trash box icon and select `Edit Exception`.

## **Wired Proxy Setup**

### **Enable Proxy Server**

For `Multiple Proxies`, select this to enable the proxy server for wired connection.

### **Wired Proxy Setup**

Select a type of settings.

### **Automatic**

Select this to automatically set up the proxy.

### **Configuration Script**

Select this to allow you to enter the URL of a configurations script.

### **Manual**

Select this to enter a server address in `Server Address`. When enabling `Password Required`, enter the login name and password.

### **Add Exceptions**

Enter an address that is not to use the proxy.

To remove the address, tap the trash box icon and select `Remove Exception`.

To edit the address, tap the trash box icon and select `Edit Exception`.

## LDAP

- When LDAP is turned on

You can set the LDAP server settings in the `LDAP Server` screen.

Test Connection	To test the connection to the server, select <code>Test Connection</code> . Initially <code>Not Tested</code> is displayed. <code>Success</code> or <code>Failed</code> is displayed as a result of the test.
Server Address	Sets the server address.
SSL/TLS	To encrypt the communication between the server and the printer, enable <code>SSL/TLS</code> .
Directory Root	Sets the directory root.
User Name	Enter the login name for searching in LDAP server.
Password	Enter a password for the user specified in <code>User Name</code> .
Find Other LDAP Servers	Opens the LDAP server list.
LDAP Communication Report	Outputs the report that shows the contents of the LDAP communication transmitted and received by the machine.

- When LDAP is turned off

Wait until the desired server is found, and select the server.

To specify the server by manually entering the server information, select `Manual Setup`.

## SMTP

Setup the SMTP server.

Once this screen is opened, searching SMTP server starts automatically. Select a server from the search result.

Also you can specify the SMTP server by entering the server address manually.

### NOTE:

- If SMTP is already enabled, the search is not performed automatically and the `SMTP Server` screen is displayed.

## Support

Displays the menu for maintenance of the machine.

### Support Pages

Allows you to print reports.

- Ghosting Print
- Repeating Defects
- System Status
- Error History Report
- LDAP Communication Report
- SMB Communication Report
- SMTP Communication Report

## Diagnostics

Displays the diagnostics menu.

## Altitude Adjustment

Specify the altitude of the location where the printer is installed.

## Color Calibration

Corrects the consistency of printing colors over time, environment, and print media.

## Color Registration - Automatic

See "Adjusting Color Registration".

## Color Registration - Manual

See "Adjusting Color Registration".

## Image Position

Adjust the image position.

## Non-Dell Toner Cartridges

Enable or disable the Non-Dell Toner mode.

## Fusing Unit Temperature Adjustment

Adjust the temperature of the fusing unit.

To lower the temperature, set negative values. To increase, set positive values.

The default settings may not give the best output on all paper types. When the printed paper has curled, try to lower the temperature. When the toner does not fuse on the paper properly, try to increase the temperature.

### NOTE:

- The print quality changes depending on the setting values you select for this item.

## Transfer Voltage Adjustment

Adjust the transfer voltage.

To lower the voltage, set negative values. To increase, set positive values.

The default settings may not give the best output on all paper types. If you see mottles on the print output, try to increase the voltage. If you see white spots on the print output, try to decrease the voltage.

### NOTE:

- The print quality changes depending on the setting values you select for this item.

## Hardware

Displays the maintenance menu for hardware.

## Resets

Allows you to set the machine settings to original factory state.

### NOTE:

- Settings cannot be recovered after a reset.

## Reset 802.1X and IPsec

Sets the 802.1X and IPsec settings to original factory state.

## Reset Fonts, Forms, and Macros

Deletes all the fonts, forms and macros installed to the printer by users.

## Reset to Factory Defaults

Erases all settings and returns the machine to original factory state.

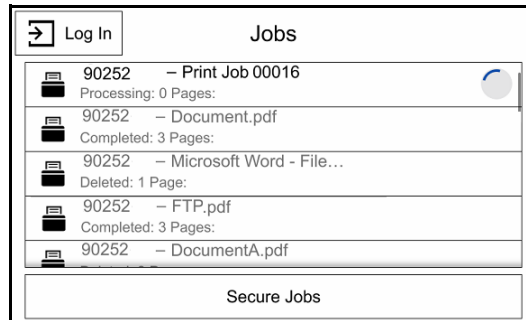
# Jobs

---

This section describes the features you can select on the Jobs screen.

## Job List

Displays the active, pending and completed jobs. You can operate the following on the job list.



### NOTE:

- You can scroll the feature list up and down.

## Checking active/pending jobs

Lists active and pending jobs. Selecting a row opens its associated job details.

## Checking completed jobs

Displays the status of completed jobs. Selecting a row opens its associated job details.

## Deleting a Job

Cancels the current or pending job. Select a table row or status indicator that you want to delete. Then select the `Delete` button.

## Checking stored jobs

Displays the `Secure Jobs`. Also prints and deletes jobs stored using the **Sample Set** features.

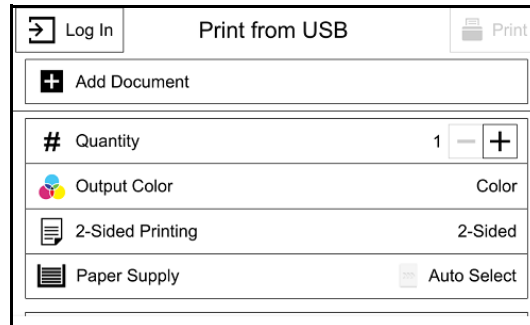
## Secure Jobs

Prints confidential jobs. The printer can hold the job in memory until you arrive at the printer and type the passcode on the operator panel.



# USB

This section describes the features you can select on the **Print from USB** screen.



## NOTE:

- To prevent damage to your printer, do not connect any device other than USB memory to the front USB port of the printer.
- Do not remove the USB memory from the front USB port until the printer has finished printing.
- When the Authentication or Accounting feature is enabled, a user ID and passcode may be required. Ask your system administrator for the user ID and passcode.
- Data stored in USB memory device may be lost or damaged in the following cases. Make sure to back up data in media before use.
  - When disconnecting/connecting the USB memory device by methods other than those described in this guide
  - When receiving the effect of electrical noise or an electrical discharge
  - When a fault or failure occurs during operation
  - If the USB memory device receives mechanical damage
- We assume no responsibility for any direct and indirect damages arising from or caused by such data loss.

## Supported USB

For the front USB port of the printer, you can use a USB flash drive with the following specification:

- USB 2.0 memory device
- USB memory devices with the capacity of up to 256 GB.
- USB memory devices that support FAT12, FAT16, FAT32, and VFAT (long name).

## NOTE:

- If the USB flash drive is formatted in a file system other than the above, the printer may not detect the USB flash drive.
- A USB flash drive with authentication feature and some brands of USB flash drive cannot be used with this printer.

# Supported File Formats

Files in the following file formats can be printed directly from a USB flash drive:

- PDF
- TIFF
- JPEG
- XPS
- EXIF2.0-2.2

 **NOTE:**

- XPS stands for XML Paper Specification.

## Print from USB

You can print document files from a USB memory device.

You can enable/disable the `Print from USB` service following procedure.

Launch the **Dell Printer Configuration Web Tool** → Click **Apps** → **Print from USB** → Set the **Print From** settings.

 **NOTE:**

- When you disable the service, the `Print from USB` is not displayed on the screen, and you cannot use the service. You must log in as an administrator to use this setting.

## Action Footer

The following action buttons are available on the bottom of the App screen.

Some features are available only for the users with administrator permission.

### Reset

Returns all the settings within the App to the default.

### Save

Shows the popup menu to save the current settings within the App.

### *Save as New Preset*

Saves the current settings as a Preset.

### *Save Over XXX (Preset Name)*

Saves the current settings as a new version of an existing Preset.

## Customize

Shows the popup menu to start the screen customization.

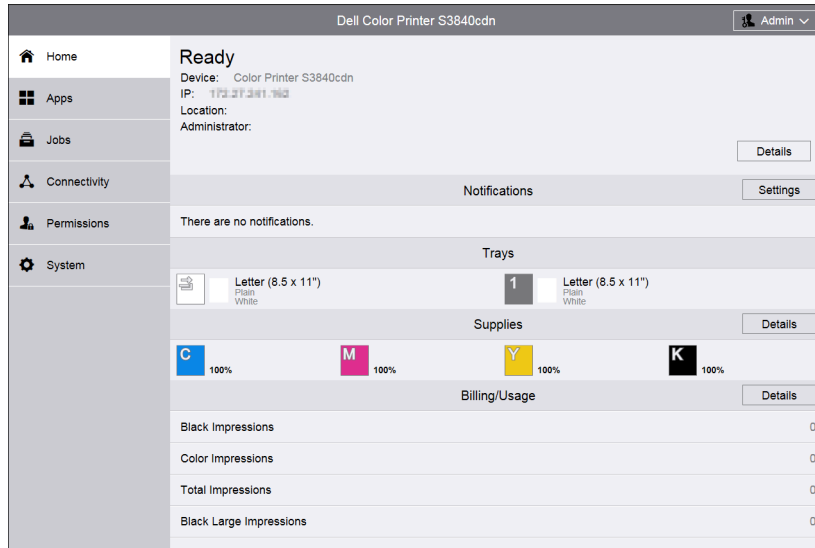
 **NOTE:**

- See "Customizing App Screens".

# Dell Printer Configuration Web Tool

## Overview

Use **Dell Printer Configuration Web Tool** to monitor the status of your network printer without leaving your desk. You can view and/or change the printer settings, monitor toner level, and acknowledge the timing of ordering replacement consumables.



If you are a network administrator, you can copy the printer settings to one or all printers on the network using your web browser.

### NOTE:

- This web tool is available only when the printer is connected to a network using an Ethernet cable or the wireless network function.

## Setting Up the Dell Printer Configuration Web Tool

Ensure that you activate JavaScript in your browser before using the **Dell Printer Configuration Web Tool**.

Follow the procedures below to configure the environment settings of your web browser before using the **Dell Printer Configuration Web Tool**.

### NOTE:

- The **Dell Printer Configuration Web Tool** pages may be displayed unreadable if the pages were configured by the language different from the language of your web browser.

## Supported Web Browser

**Dell Printer Configuration Web Tool** supports the following web browsers.

For Windows	Microsoft Internet Explorer 10, 11 and later Mozilla Firefox 45 and later Google Chrome 48 and later
For OS X	Safari 7, 8 and later

## Setting Up From Web Browser

The following procedure is described using Internet Explorer 11. The item names may differ depending on the version and type of your browser.

### *Setting Up the Display Language*

- 1 Select **Internet Options** from **Tools** on the menu bar.
- 2 Select **Languages** in the **General** tab.
- 3 Specify the display language in order of preference in the **Language** list.

### *Setting the IP Address of the Printer to Non-Proxy (Optional)*

- 1 Select **Internet Options** from the **Tools** menu.
- 2 Click **LAN Settings** under **Local Area Network (LAN) Settings** in the **Connections** tab.
- 3 Do either of the following:
  - Clear the **Use a proxy server for your LAN** check box under **Proxy server**.
  - Click **Advanced**, and then specify the IP address of the printer in the **Do not use proxy server for addresses beginning with** field under **Exceptions**.

## Starting the Dell Printer Configuration Web Tool

To launch the **Dell Printer Configuration Web Tool**, enter the IP address of your printer in your web browser.



### **NOTE:**

- See "Verifying the IP Settings".

## Overview of the Menu Items

The **Dell Printer Configuration Web Tool** consists of the following menus:

### **Home**

The **Home** screen consists of the following menus: **Notifications**, **Trays**, **Supplies**, **Billing/Usage**, and **Quick Links**. Use those menus to get immediate feedback on the printer status or to jump to useful services.

### **Apps**

Use the **Apps** menu to change the apps settings of the printer.

### **Jobs**

Use the **Jobs** menu to see the job history of the printer and to configure the job control.

### **Connectivity**

Use the **Connectivity** menu to change the printer interface and necessary conditions for communications.

## Permissions

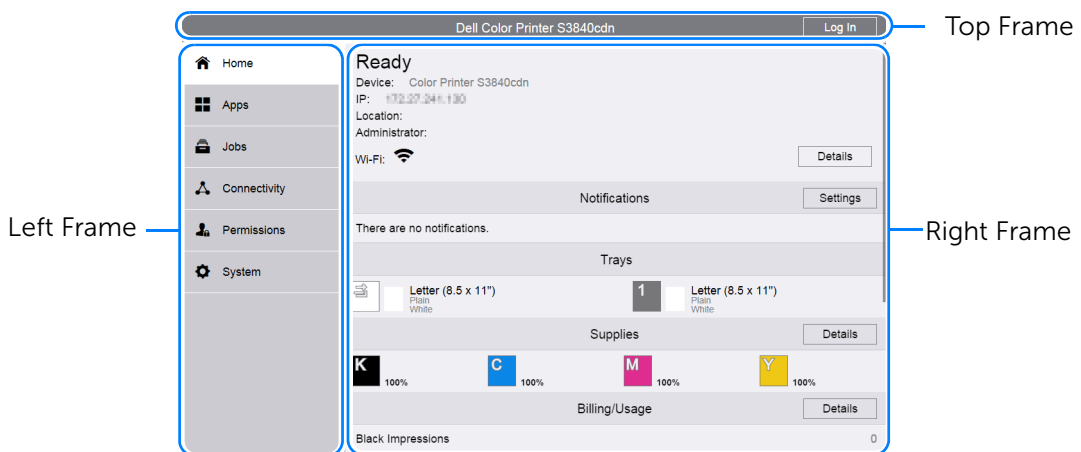
Use the **Permissions** menu to view and set the user account settings and to set the authentication and accounting methods.

## System

Use the **System** menu to configure the printer environment settings such as Power Saver settings, Security settings, or PDL settings.

## Page Display Format

The layout of the page is divided into three sections:



## Top Frame

The top frame is located at the top of all pages. The printer name and the **Log In** button are displayed in the top frame on every page.

### NOTE:

- See "Log In/Log Out from the Dell Printer Configuration Web Tool".

## Left Frame

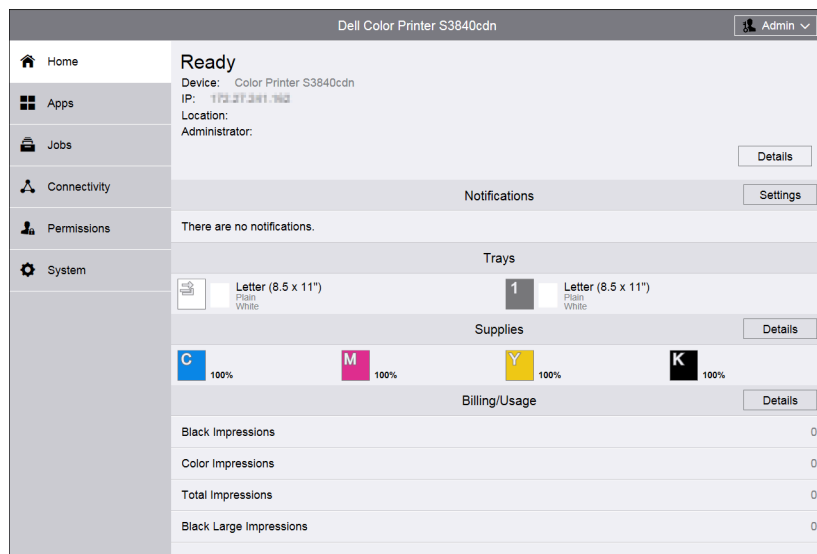
The left frame is located on the left side of all the pages. The menu titles displayed in the left frame are linked to corresponding menus and pages. You can go to the corresponding page by selecting their characters.

## Right Frame

The right frame is located on the right side of all the pages. The contents of the right frame correspond to the menu that you select in the left frame.

# Home

The header part of **Home** screen shows the status and basic information of the printer. Select **Details** to open **Device Details**.



## Device Details

Allows you to view and edit the following items.

<b>Device Name</b>	Set the name of the printer.
<b>Dell Service Tag Number</b>	Displays Dell Service Tag Number.
<b>Express Service Code</b>	Displays Express Service Code.
<b>Customer Asset Tag</b>	Set the asset tag for the printer.
<b>Firmware Version:</b>	Displays the current software version of the printer.
<b>Serial Number:</b>	Displays the serial number of the printer.
<b>Device Location</b>	Set the location of the printer.
<b>Network</b>	Displays the basic network information. You can edit the values at "Connectivity".
<b>System Administrator</b>	Set the information of the system administrator.

## Notifications

Displays the notifications from the printer such as the fault status, replacement period, and other important messages in the order of severity.

You can check the details or associated pages by selecting each notification.

Select **Settings** to open **Notification Settings**.

## Notification Settings

### *Email Notifications*

Set the Email Notifications settings. The printer sends the printer's trouble information to the Email address specified here.

## **Fault History**

Select **Fault History** at the lower left of **Notification Settings** to view the fault history. The faults are displayed from newest to oldest in descending order.

## **Trays**

Displays the tray status and the current tray settings. Select the icon of each tray to see the details and change the settings.

### **Tray Status**

Displays the size, type, color, and remaining amount of paper loaded on the tray.

### **Tray Mode**

Select the tray mode.

### **Size, Type, Color**

Specify the size, type, and color of paper that can be loaded on the tray as necessary.

### **Auto Select**

Specify whether to set the tray as a target of automatic tray selection.

### **Priority**

Specify the priority order of the tray for automatic tray selection.

## **Supplies**

Displays the status of supplies. Select **Details** to display more information and configure the settings related to supplies.

### **Reorder Information**

Displays the URL of Dell website for ordering supplies.

### **List of Supplies**

Select an item to see more details.

### **Options**

Configure optional settings as necessary.

### **Alerts Setup**

Enable or disable the alerts related to supplies. When enabled, tap each item to change the timing of the alert.

### **Email Alerts**

To receive alerts by e-mail, enter e-mail addresses and select the types of alerts you need.

## Billing/Usage

You can check the number of pages printed per meter. To check the detailed billing information, click **Details**.

### Billing Details & Usage Counters

You can check the **Device Serial Number**, **Billing Meters**, and **Usage Counters**.

#### Billing Meters

You can check the total number of copies and pages printed by individual meters.

#### Usage Counters

You can check the detailed usage counters.

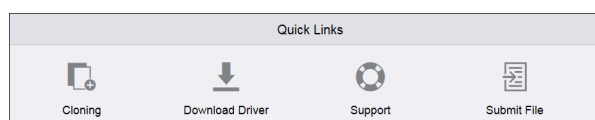
 **NOTE:**

- "Impressions" in Usage Counters means the counts of images. For example, 2-sided printing increases the impressions by two.

<b>Total Impressions</b>	Displays the total number of <b>Color Impressions</b> and <b>Black Impressions</b> .
<b>Black Impressions</b>	Displays the total number of pages printed in black and white.
	<b>Black Printed Impressions</b>
<b>Color Impressions</b>	Displays the total number of pages printed in full color.
	<b>Color Printed Impressions</b>
<b>Single Impressions</b>	Displays the total number of impressions counted for maintenance services.
	<b>Black Single Impressions</b>
	<b>Color Single Impressions</b>
<b>Black Sheets</b>	Displays the total number of sheets of paper printed in black and white.
	<b>Black Printed Sheets</b>
	<b>Black Printed 2-Sided Sheets</b>
<b>Color Sheets</b>	Displays the total number of sheets of paper printed in full color.
	<b>Color Printed Sheets</b>
	<b>Color Printed 2-Sided Sheets</b>
<b>Sheets</b> (1 Sided and 2 Sided)	Displays the total number of sheets of paper printed.
	<b>Printed Sheets</b>
<b>2-Sided Sheets</b>	Displays the total number of sheets of paper printed in 2-sided format.
	<b>Printed 2-Sided Sheets</b>

## Quick Links

**Quick Links** provides some convenient functions.



## Cloning

This page allows you to copy and download the setting information file of the printer and to install the setting information file of another machine.



## ***Install Clone File***

Locate a setting information file to be installed and then select **Install** to start the installation.

## ***Create Clone File***

To download a setting information file, select the items to copy and then select **Create**.

### **NOTE:**

- The clone file is downloaded in a format which cannot be edited by users.

You can select the following items.

<b>Select/Clear All</b>	Check or uncheck all the items.
<b>Device App</b>	
<b>Jobs App</b>	
<b>USB App</b>	
<b>App Platform</b>	
<b>App Customization</b>	
<b>Connections</b>	
<b>Mobile Printing</b>	
<b>Protocols</b>	
<b>Authentication, Authorization, Accounting, Personalization</b>	
<b>Logs</b>	
<b>Date &amp; Time</b>	
<b>Security</b>	
<b>Timeouts</b>	
<b>Power Saver</b>	
<b>PDL Settings</b>	
<b>Defaults and Policies</b>	
<b>Job Management</b>	
<b>Software Update</b>	
<b>Supplies Management</b>	
<b>Notifications</b>	
<b>Internationalization</b>	
<b>Support Information</b>	

## **Download Driver**

Displays the support page. You can download the appropriate driver to the client PC.

## **Support**

Displays the support information.

## ***Support Information***

You can change the information by selecting **Edit**.

## ***Online Support***

Opens the Online Support page in a new browser window.

## Restart Device

Allows you to restart the printer. Select **Restart** after the confirmation screen is displayed.

## Submit File

Allows you to print a file from the local client device by uploading the file through **Dell Printer Configuration Web Tool**.

No driver installation is required.

Supported file format	Procedure
PDF, PS, PCL, PRN, XPS, JPEG, TIFF, TXT	<ol style="list-style-type: none"><li>1. Enter the path of the file or select a file through browsing the local file system.</li><li>2. Enter the print quantity.</li><li>3. Set each print items.</li><li>4. Click <b>Submit</b> button and the print job will be submitted.</li></ol>

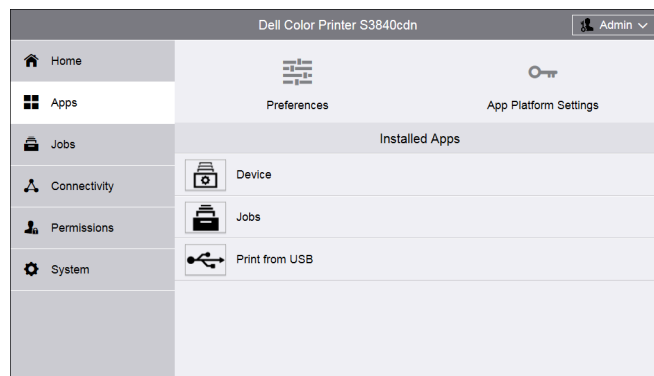


### NOTE:

- XPS stands for XML Paper Specification.

## Apps

Allows you to configure the settings related to the apps used on the control panel.



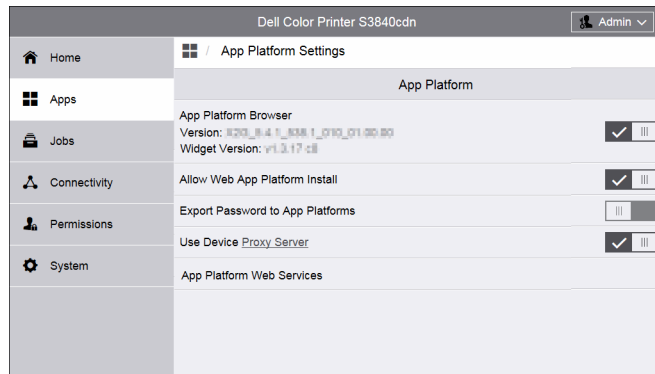
## Preferences

### Walkup Screen

Set the screen displayed after powering on the machine or canceling the Power Saver mode.

# App Platform Settings

Using the App Platform service allows you to use application software on the printer. You can set the following App Platform settings.



**NOTE:**

- For information on the installation and usage of application software, refer to the guide provided with each application software.

## App Platform

### *App Platform Browser*

Set whether or not to enable the App Platform browser. The browser version and the widget version are displayed.

### *Allow Web App Platform Install*

Set whether or not to allow the installation of Web App Platform applications.

### *Export Password to Apps Platform*

Set whether or not to allow login user passwords on the machine or a remote authentication server to be used for internal applications such as SharePoint® Connector, to set up single sign-on between the machine and the application.

### *Use Device Proxy Server*

Set whether or not to use the device's proxy server.

### *App Platform Web Services*

You can enable or disable the following web services:

<b>Remote System Management</b>	<b>Device Configuration</b> allows obtaining the machine settings and capabilities.
	<b>App Platform SNMP Configuration</b> allows obtaining and setting MIB (management information base) that can be obtained and set via SNMP.
	<b>Extensible Service Registration</b> allows registering, changing, and deleting applications.
	<b>User Interface Configuration</b> allows managing the initial screen used by applications.
	<b>App Platform Proxy Configuration</b> allows referring and setting the machine proxy information.

<b>Apps</b>	<b>Job Management Extension</b> allows enabling job list and job details, and operating jobs.
	<b>Print Extension</b> allows printing documents obtained from a specified URL.
<b>Hardware</b>	<b>Card Reader Access</b> allows sending card information from the card reader to a client.
	<b>Mass Storage Access</b> allows operating a mass storage device connected to the machine.
<b>Authentication and Accounting</b>	<b>Configuration</b> allows obtaining and changing authentication and accounting settings.
	<b>Job Limits</b> allows limiting job operations based on the information from the remote accounting server.
	<b>Session Data</b> allows obtaining and changing user information on the machine.
	<b>Dell Secure Access</b> allows session control and notification from the machine to the server for convenience authentication.
<b>Security</b>	<b>Certificate Management and Security Configuration</b> allows certificate management.

## Installed Apps

The list of installed apps is displayed.

Select each app to confirm or change the app information and settings.

### Basic Information and Control of Apps

On the left column of each app's setting pages, the basic information of the app is displayed.

#### NOTE:

- The items are displayed on the top of the pages when the browser size is small.

#### **Type:**

Displays **Standard App** or **Web App Platform**.

#### **Author:**

Displays the creator of the app.

#### **Description:**

Displays the description of the app.

#### **Display on Device**

Set whether or not to display the app on the Home screen of the control panel.

#### **Delete App**

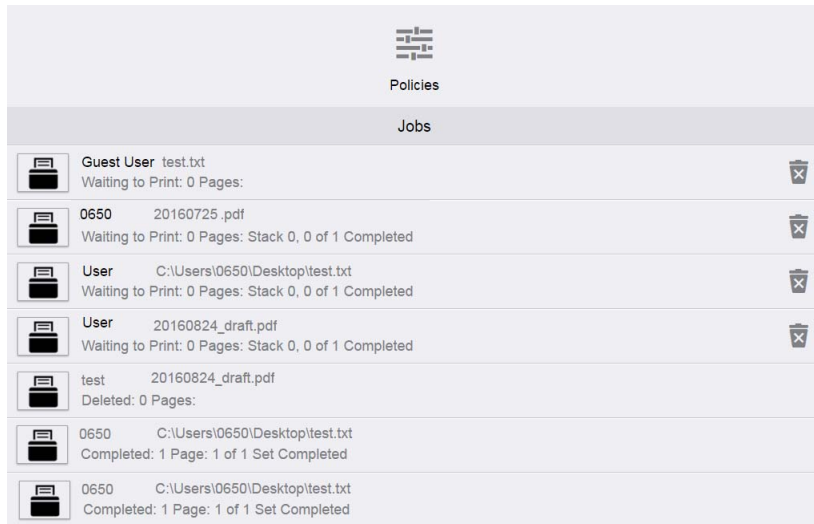
Deletes the app. This button is displayed only for the apps that can be deleted.












# Jobs

The **Jobs** menu contains information on the List of **Active Jobs** and **Completed Jobs**. These pages show the details of the status regarding each protocol or job.

 **NOTE:**

- The jobs stored as **Secure Print** jobs can only be displayed in the job list on the device control panel. For details, see "Checking active/pending jobs".



Policies		
Jobs		
	Guest User test.txt Waiting to Print: 0 Pages:	
	0650 20160725.pdf Waiting to Print: 0 Pages: Stack 0, 0 of 1 Completed	
	User C:\Users\0650\Desktop\test.txt Waiting to Print: 0 Pages: Stack 0, 0 of 1 Completed	
	User 20160824_draft.pdf Waiting to Print: 0 Pages: Stack 0, 0 of 1 Completed	
	test 20160824_draft.pdf Deleted: 0 Pages:	
	0650 C:\Users\0650\Desktop\test.txt Completed: 1 Page: 1 of 1 Set Completed	
	0650 C:\Users\0650\Desktop\test.txt Completed: 1 Page: 1 of 1 Set Completed	

 **NOTE:**

- You can scroll the feature list up and down.

## List of Active Jobs

Displays the jobs that are being processed.

## List of Completed Jobs

Displays the completed jobs. Up to the last 200 jobs are displayed.

## Deleting a Job

- 1 Select a job you want to delete.
- 2 Select **Delete** button.

 **NOTE:**

- Only **Print** jobs can be deleted.

## Policies

Displays the **Jobs Policies**. You can configure settings related to the **Jobs** feature.

## Print Around

Specify time period to disable print jobs.

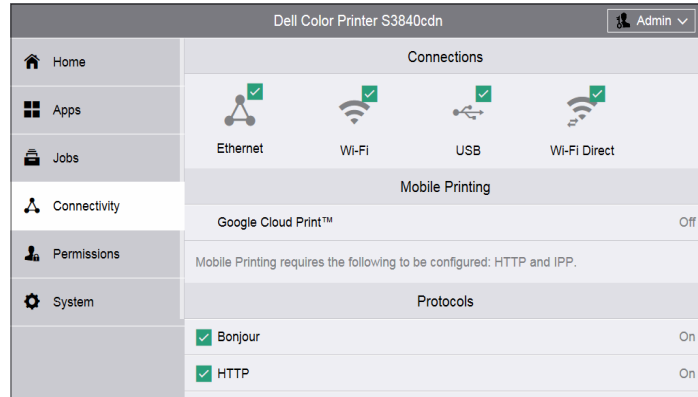
## Conceal Job Names

Select whether or not to conceal job names.

## Stored Print Job Settings

Sets the stored print job settings.

## Connectivity



### NOTE:

- The displayed features may vary depending on your settings.
  - You can scroll the feature list up and down.
  - When wired and wireless connections are used at the same time, it is recommended to use different subnets for the primary and secondary interfaces. Either the wired or wireless connection can be designated as the primary network interface. Only the primary network interface can use the following protocols: IPsec, SMTP/POP, SNMP, WSD Scan\*, Scan To (Email/Network/ FTP), LDAP, UPnP Discovery, Email Notifications, FTP Server, WebDAV, App Platform Web Services
- \*: WSD stands for Web Services on Devices.

## Connections

### Ethernet

#### **MAC Address:**

Displays the MAC address.

#### **Rated Speed**

Select a communication speed for the Ethernet interface.

- **Auto (Default)**
- **10 Mbps Half-Duplex**
- **10 Mbps Full-Duplex**
- **100 Mbps Half-Duplex**
- **100 Mbps Full-Duplex**
- **1 Gbps Full-Duplex**

#### **Common**

Tap **Edit** for the settings.

**Host Name:**

Enter the host name with up to 32 single-byte characters.

**Primary Network**

Allows you to select **Ethernet** or **Wi-Fi**. This is displayed when you are using multiple interface.

**IP Mode:**

Allows you to select the TCP/IP operation mode.

**IPv4**

Select this option for IPv4.

**IPv6**

Select this option for IPv6.

**Dual Stack**

Select this option for an environment using both IPv4 and IPv6.

**IPv6 Priority over IPv4 at Domain Name Resolution:**

Select this to prioritize IPv6 for the domain name resolution feature.

**IPv4**

Click **Edit** for the settings.

**Mode:**

Allows you to select a method for obtaining the IP address, subnet mask, and gateway address.

**DHCP**

The address, subnet mask, and gateway address will automatically be set via DHCP.

**STATIC**

Allows you to manually specify an IP address, a subnet mask, and a gateway address.

**BOOTP**

The address, subnet mask, and gateway address will automatically be set via BOOTP.

**IP Address**

Enter the IP address when selecting **STATIC** at **Mode**.

 **NOTE:**

- Enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.
- Specify an IP address using numbers (0 to 9) and periods (.).

## **Subnet Mask**

Enter the subnet mask when selecting **STATIC** at **Mode**.

### **NOTE:**

- Enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.
- Specify a subnet mask using numbers (0 to 9) and periods (.).

## **Gateway Address**

Enter the gateway address when selecting **STATIC** at **Mode**.

### **NOTE:**

- Enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.
- Specify a gateway address using numbers (0 to 9) and periods (.).

## **Release current IP when the Device is powered off.**

For **DHCP**, select this to return the IP address to the DHCP server when the printer is powered off.

## **IPv6**

Click **Edit** for the settings.

## **Link-Local Address**

Displays the Link-Local address.

## **Self-Assigned Address 1:, Self-Assigned Address 2:, Self-Assigned Address 3:**

Displays the self-assigned address.

## **DHCPv6**

### **Purpose**

Select a purpose of using DHCPv6.

- **Directed by Router**
- **Address Assignment and Configuration Data**
- **Configuration Data**

### **DHCPv6 Address:**

Displays the DHCPv6 address.

### **Manual Address:**

Allows you to select whether or not to configure the IPv6-address settings manually.

## **Manual Address**

Enter an Address.

### **NOTE:**

- Enter the address in the format "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx", where "xxxx" is a hexadecimal value.
- Specify an address using alphanumeric characters (0 to 9 and A to F) and colons (:).



### **Gateway Address:**

Specify a gateway address.

#### **NOTE:**

- Enter the address in the format "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx", where "xxxx" is a hexadecimal value.

### **Automatically Configured Gateway Address:**

Displays the gateway address automatically configured.

### **DNS**

Click **Edit** for the settings.

### **Domain Name**

Enter a domain name.

### **Connection Timeout**

Sets the time-out period between 1 and 60 seconds.

### **IPv4 DNS Servers**

#### **Use DHCP to Assign Address**

Set whether or not to automatically obtain the address of the DNS server from the DHCP server.

#### **Primary Server, Alternate Server 1, Alternate Server 2**

Set DNS server addresses.

### **IPv6 DNS Servers**

#### **Use DHCPv6-lite to Assign Address**

Set whether or not to automatically obtain the address of the DNS server from the DHCPv6 server.

#### **Primary Server, Alternate Server 1, Alternate Server 2**

Set DNS server addresses.

### **DNS Search Domains**

#### **Generate Domain Search List Automatically**

Select this to automatically generate a search list.

#### **Primary Domain, Alternate Domain 1, Alternate Domain 2**

Enter domains when you disable **Generate Domain Search List Automatically**.

### **802.1X**

Configure the IEEE 802.1x settings.

---

#### **Enable 802.1X**

Set whether or not to use IEEE 802.1X authentication.

<b>Authentication Method</b>	Select from <b>EAP-MD5</b> , <b>PEAPv0/EAP-MS-CHAPv2</b> , <b>EAP-MS-CHAPv2</b> , or <b>EAP-TLS</b> .
<b>Certificate Verification</b>	Select whether or not to verify a server certificate when <b>PEAPv0/EAP-MS-CHAPv2</b> or <b>EAP-TLS</b> is selected in <b>Authentication Method</b> .
<b>User Name (Device Name)</b>	Enter the login user name with up to 128 characters.
<b>Password</b>	Enter the login password with up to 128 characters.
<b>Retype Password</b>	Re-enter the login password for confirmation.

## Wi-Fi

### **Enable**

To specify whether to enable the Wi-Fi feature.

### **MAC Address:**

Displays the MAC address.

### **Link Channel:**

Displays the channel used for wireless communication.

### **Link Quality:**

Displays the status of wireless communication.

- **Good**
- **Acceptable**
- **Poor**

### **Wi-Fi Band**

Select a frequency band.

- **Auto**
- **2.4 GHz**
- **5 GHz**

### **SSID**

To set the name that identifies the wireless network with up to 33 alphanumeric characters.

### **Network Type**

To set the type of wireless network. Select **Infrastructure** when you configure the wireless settings through the access point such as a wireless router. Select **Ad hoc** to configure the wireless settings without the access point such as a wireless router.

## TCP/IP Settings

### **Common**

Displays the host name.

### ***IPv4***

Displays the IPv4 address.

### ***IPv6***

Displays the IPv6 address.

### ***DNS***

Displays the domain name.

## ***Security Settings***

### ***Encryption***

Select a type of encryption.

- **No Encryption**
- **WEP**
- **WPA2 Personal**
- **WPA2 Enterprise**
- **Mixed Mode Personal (AES/TKIP)**
- **Mixed Mode Enterprise (AES/TKIP)**

### ***Transmit Key***

For **WEP**, select a WEP key for sending encryption.

### ***WEP Key 1 to 4, Retype WEP Key 1 to 4***

For **WEP**, specifies the WEP key to use through the wireless network.

### ***Passcode, Retype Passcode***

For **WPA2 Personal** or **Mixed Mode Personal (AES/TKIP)**, specifies the passphrase.

### ***Authentication Method***

For **WPA2 Enterprise** or **Mixed Mode Enterprise (AES/TKIP)**, specifies the EAP authentication method used for WPA Enterprise.

- **PEAPv0 MS-CHAPv2**
- **EAP-TLS**
- **EAP-TTLS/PAP**
- **EAP-TTLS/CHAP**
- **EAP-TTLS/MS-CHAPv2**

### ***Root Certificate***

Specifies the sequence ID of the root certificate. To register no certificate, enter "0".

### ***Client Certificate***

Specifies the sequence ID of the client certificate. To register no certificate, enter "0".  
For **EAP-TLS**, this setting is mandatory.

### ***EAP-Identity***

Specifies the EAP identity for the first authentication.

### ***Login Name***

Specifies the login name to be used for the second authentication for EAP-Enterprise. Up to 33 alphanumeric characters are available. The entry can be the same string as **EAP-Identity**.

### ***Password, Retype Password***

Specifies the password for the login name.

## **USB**

### ***Enable***

Select this to use USB interface.

### ***USB Port***

Select this to enable the port.

### ***PJL***

PJL (Printer Job Language) is a job control language and a PJL command is data prepended to the top of the print jobs. Usually select this.

### ***Print Mode***

Select the printer language to use on the machine. The available options are **Auto**, **PostScript 3**, **HP-GL/2**, **PCL 6/5e**, and **TIFF/JPEG**. Selecting **Auto** enables the machine to automatically determine and use the most suitable language to print data received from the host device.

### ***Auto Job Timeout***

Configure the time that the data so far received by the machine will automatically be printed since data is no longer sent to the printer.

## ***Adobe Communication Protocol***

### ***Standard***

Select this when the output protocol of the print driver is in the ASCII format.

### ***Binary***

Select this when the output protocol of the print driver is in the BCP format.

### ***TBCP***

Select this when the output protocol of the print driver is in the TBCP format.

### ***RAW***

Select this when the output protocol of the print driver is in the ASCII or binary format. The data is printed without being controlled by the Adobe communication protocol.

### ***PostScript Wait Timeout (RAW Mode)***

The machine automatically terminates a connection when the machine does not receive data for a certain period of time. When data is being printed with **RAW** selected for **Adobe Communication Protocol**, disable this if you want to use the time period set in **Auto Job Timeout** or enable this if you want to use the timeout period of PostScript.

## **Wi-Fi Direct**

### ***Enable***

Select this to enable the Wi-Fi Direct network.



#### **NOTE:**

- In multi-interface environment, Wi-Fi Direct becomes disabled if the address range is duplicated with Ethernet or Wi-Fi.

### ***Paired Device***

Displays the status of the Wi-Fi Direct connections between the printer and connected devices.

### ***Current Role***

Displays the role currently configured for the printer: **Group Owner** or **Client**.

### ***Current SSID***

Displays the SSID currently configured for the printer.

### ***Group Role***

Select **Auto** to automatically resolve the group role for Wi-Fi Direct according to the group formation.

Select **Group Owner** to make it possible for your Wi-Fi mobile devices to discover this printer. The SSID of the printer will then be displayed in a list of wireless networks on your Wi-Fi mobile devices.

### ***Device Name:***

Displays the device name.

This appears when **Group Role** is set to **Auto**.

### ***DHCP Server***

#### ***IP Address***

Displays the IP address.

#### ***Subnet Mask***

Displays the subnet mask.

#### ***IP Address Lease Time***

Specify the lease time of an IP address.

## Group Owner

### SSID

Displays the name that identifies the Wi-Fi Direct network. You can specify the name with up to 23 alphanumeric characters after "**DIRECT-\*\***".

### Passcode

Enter a passphrase with 8 to 63 alphanumeric characters, or with a hexadecimal value of 64 digits.

## Mobile Printing

You can configure settings related to the **Mobile Printing** feature.

### AirPrint

Configures the detailed setting of **AirPrint**.

To use **AirPrint**, check the box to enable.

Enabling **Airprint** will automatically enable required underlining protocols such as IPP and Bonjour.

<b>AirPrint™</b>	<b>Enable</b>	Set whether or not to use <b>AirPrint</b> .
<b>Bonjour</b>	<b>Printer Name</b>	Enter the name that is to be displayed as an <b>AirPrint</b> Printer.
	<b>Location</b>	Enter the location of the printer.
	<b>Longitude</b>	Enter the longitude.
	<b>Latitude</b>	Enter the latitude.
<b>IPP Authentication</b>	<b>Basic Authentication</b>	Set whether or not to enable <b>Basic Authentication</b> .
	<b>User Name</b>	Enter the user name.
	<b>Password</b>	Enter the user password.
	<b>Retype Password</b>	Retype the user password for confirmation.
<b>Security Certificates</b>	<b>Edit</b>	Change the security certificate settings.
<b>Supplies</b>	<b>Check Status</b>	Displays the toner status.

### Google Cloud Print™

To use **Google Cloud Print™** feature, check the box to enable.

### Mopria™

Select **On** to enable **Mopria™**.

## Protocols

### Bonjour

#### **Port**

Select this to use Bonjour.

#### **NOTE:**

- To print from a printer detected by **Bonjour**, the LPD port must be activated in advance.

#### **Wide-Area Bonjour**

Select this to enable the Wide-Area Bonjour protocol.

#### **NOTE:**

- In multi-interface environment, this setting is for primary interface only.

#### **Host Name**

Sets the host name.

#### **Printer Name**

Sets the printer name.

## HTTP

#### **Port Number**

Enter a port number.

#### **NOTE:**

- Do not use a number that is the same as a port number of another port. However, you can use the same port number for a port that uses HTTP (IPP, Internet Services (HTTP), UPnP Discovery, SOAP, WebDAV, and Web Services on Devices (WSD)).

#### **CSRF Protection**

Select this to enable Cross-Site Request Forgery (CSRF) protection for security. This feature protects the settings on **Dell Printer Configuration Web Tool** from being altered if a user unknowingly accesses a malicious website.

#### **HTTPS (SSL)**

Select this to enable HTTPS (SSL).

#### **HTTPS Port Number**

Enter a port number from 1 to 65535.

#### **Maximum Connections**

Enter the maximum number of simultaneous connections.

#### **Connection Timeout**

Sets the connection time-out period.

## ***Device Certificate***

Select a device certificate.

## **Proxy Server**

Select this to configure the settings for using inbound/outbound access.

### **NOTE:**

- Do not set this item unless you use services requiring proxy server settings.

## ***Proxy Setup***

Select a type of proxy connections. This is displayed when you are using multiple interface.

- **Common Proxy**
- **Different Proxies**

## ***Setup***

Select a type of proxy server settings.

To set up automatically, select **Automatic**.

To enter the URL of a configurations script, select **Configuration Script**.

To enter proxy server information, select **Manual**.

## ***Type***

For **Manual**, select a type to specify the proxy server.

According to the type you selected, enter an address or a host name with up to 256 alphanumeric characters, underscore, period, or colon, and enter the port number between 1 and 65535.

## ***Password Required***

Select this when authenticating with a password to connect to the proxy server.

## ***Login Name***

Enter a login name.

## ***Password, Retype Password***

Enter a password.

## ***Exception List***

Enter addresses not using the proxy server. You can use the IPv4, IPv6, or FQDN format. You can use wildcards "\*" and delimiters ";".

## **IPP**

### ***Port***

Select this when you want to use IPP (Internet Printing Protocol) to print via the Internet.

### ***Port Number***

Enter a port number.



## **PJL**

Select this to enable PJL. PJL allows you to specify the printer language to use for your next job regardless of the printer language currently being used.

## **Print Mode**

Select a print mode. The available options are **Auto**, **PostScript 3**, **HP-GL/2**, **PCL 6/5e**, and **TIFF/JPEG**. Selecting **Auto** enables the machine to automatically determine and use the most suitable language to print data received from the host device.

## **Alternate Port (IPP), Alternate Port (IPPS)**

Select this to accept a port number other than the standard port number. Enter a port number in **Alternate Port Number (IPP)** or **Alternate Port Number (IPPS)**.

### **NOTE:**

- Do not use a number that is the same as a port number of another port. However, for IPP, you can use the same port number for a port that uses HTTP (IPP, Internet Services (HTTP), UPnP Discovery, SOAP, WebDAV, and Web Services on Devices (WSD)). For IPPS, you can use 443 (HTTPS), and cannot use 80 (HTTPS) or a well-known port (HTTPS).

## **TBCP Filter**

Select this to enable TBCP filter for PostScript data. When the transmission data includes binary data or EPS data, disable this.

## **Password Required**

Select this to authenticate with a password.

## **Connection Timeout**

Select this to set the timeout.

## **Timeout**

Sets the connection time-out period.

## **Spool**

Select **On** to enable spooling.



## **IPsec**

Configure the IPsec settings.

### **NOTE:**



- For **IKE Authentication Method**, **Preshared Key**, **DH Group**, and **PFS**, consult your network administrator.


<b>Enable</b>	Select whether or not to enable IPsec communications.
<b>IKE Authentication Method</b>	Set the IKE authentication method. Select from <b>Digital Signature</b> or <b>Preshared Key</b> .
<b>Preshared Key</b>	Enter a preshared key. This setting is valid when <b>IKE Authentication Method</b> is set to <b>Preshared Key</b> .
<b>Retype Preshared Key</b>	Re-enter the preshared key for confirmation.

<b>Device Certificate</b>	Select a certificate for IPsec communications. Select a certificate when <b>IKE Authentication Method</b> is set to <b>Digital Signature</b> . A self-signed certificate created by <b>Dell Printer Configuration Web Tool</b> cannot be used.
<b>IKE SA Lifetime</b>	Specify IKE SA lifetime from 5 to 28800 minutes in 1 minute increments.  <b>NOTE:</b> <ul style="list-style-type: none"> <li>The value must be equal to or greater than the value set in <b>IPsec SA Lifetime</b>.</li> </ul>
<b>IPsec SA Lifetime</b>	Specify IPsec SA lifetime from 300 to 172800 seconds in 1 second increments.  <b>NOTE:</b> <ul style="list-style-type: none"> <li>The value must be equal to or smaller than the value set in <b>IKE SA Lifetime</b>.</li> </ul>
<b>DH Group</b>	Set DH group. Select from <b>G1</b> , <b>G2</b> , and <b>G14</b> .
<b>PFS</b>	Select whether or not to enable PFS.
<b>Specify Destination IPv4 Address</b>	Set the IPv4 address of the destination. When entering an IP address, enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.
<b>Specify Destination IPv6 Address</b>	Set the IPv6 address of the destination. When entering an IP address, enter the address in the format "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx", where "xxxx" is a hexadecimal value.
<b>Communicate with Non-IPsec Devices</b>	Select whether or not to communicate with non-IPsec devices.

## LDAP

### LDAP Servers

<b>Server Information</b>	<b>IP Address/Host Name : Port</b>	Enter the server IP address and the port number.  <b>NOTE:</b> <ul style="list-style-type: none"> <li>For IPv4, enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.</li> <li>For IPv6, enter the address in the format "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx", where "xxxx" is a hexadecimal value.</li> </ul>
	<b>Backup IP Address/Host Name : Port</b>	Enter the backup server IP address and the port number.  <b>NOTE:</b> <ul style="list-style-type: none"> <li>For IPv4, enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255.</li> <li>For IPv6, enter the address in the format "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx", where "xxxx" is a hexadecimal value.</li> </ul>

<b>Advanced Settings</b>	<b>Search Directory Root</b>	Enter a search root character string with up to 255 characters.   <b>NOTE:</b> <ul style="list-style-type: none"> <li>Enter the distinguished name of the root node. (Example: CN=users, DC=mydomain, DC=dell, DC=com)</li> </ul>
	<b>Login Name</b>	Enter the login name for searching in LDAP server up to 255 characters.
	<b>Password</b>	Set a login password for the user specified in <b>Login Name</b> . Up to 32 characters are allowed.
	<b>LDAP Referrals</b>	Specify whether or not to re-establish connection to another LDAP server if a currently connected LDAP server requests to do so.
	<b>Maximum Number of LDAP Referral Hops</b>	When using the Referral feature, specify how many times that a user is allowed to hop servers within 1 to 5 times.
<b>Search Criteria</b>	<b>Display Name</b>	Set whether or not to use the name attribute type as a search entry when a name is used as a search key.
	<b>Surname</b>	Set whether or not to use the surname attribute type when a name is used as a search key.
	<b>Given Name</b>	Set whether or not to use the given name attribute type when a name is used as a search key.
<b>Perform Search On</b>	<b>Perform Search On</b>	Sets the search order.

### **LDAP Authentication**

<b>Authentication Method</b>	Select the method for authentication from <b>Direct Authentication</b> and <b>Authentication of User Attributes</b> .
<b>Common Name</b>	Enter the attribute of user name. Up to 32 characters can be entered. This attribute is used to search user name in the LDAP Server.  Enter the LDAP attribute for user name typed on the control panel. When users enter the e-mail address, specify "Mail".
<b>Login User Name</b>	Enter the attribute of login user name. Up to 32 characters can be entered.  As the attribute for authentication, enter one of the login user names registered in the LDAP server.
<b>User ID</b>	Enter the user name attribute to be used for Smart Card ID search when executing LDAP authentication using the Smart Card.  The user name is notified to the remote service as authentication information. Up to 32 characters can be entered.  This item is displayed when a smart card is used with remote accounts.
<b>Smart Card</b>	Enter the attribute of login user name. Up to 32 characters can be entered.  This item is displayed when a smart card is used with remote accounts.

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<b>Use Added Text String</b>	Select whether or not to automatically add text strings in <b>Added Text String</b> when you enter the authentication information from the control panel.
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<b>Added Text String</b>	Enter the fixed string when <b>Use Added Text String</b> is enabled. Up to 64 characters can be entered.  For example, when "host" is set in <b>Common Name</b> and the user's mail address is "host@mail.com", this user needs to enter "host@mail.com".  However, when <b>Use Added Text String</b> is enabled and "@mail.com" is set in <b>Added Text String</b> , this user needs to enter only "host" on the control panel. The machine append "@mail.com".
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## **Custom Filters**

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<b>User ID Query Filter</b>	Specify the text string to be used when searching user ID upon network authentication. Up to 128 characters can be entered.
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## **LPD**

### **Port**

Select this to use LPD.

### **Port Number**

Enter a port number.

### **PJL**

Select this to enable PJL. PJL allows you to specify the printer language to use for your next job regardless of the printer language currently being used.

### **Print Mode**

Select a print mode. The available options are **Auto**, **PostScript 3**, **HP-GL/2**, **PCL 6/5e**, and **TIFF/JPEG**. Selecting **Auto** enables the machine to automatically determine and use the most suitable language to print data received from the host device.

### **TBCP Filter**

Select this to enable TBCP filter for PostScript data. When the transmission data includes binary data or EPS data, disable this.

### **Timeout**

Sets the connection time-out period.

### **Maximum Number of Sessions**

Enter the maximum number of client sessions using LPD. You can enter a number from 1 to 10 in 1 session increments.

### **Parameter Text String Encoding**

Select an encoding format for parameter text strings.

- **Follow Device Settings**

- **UTF-8**

### ***Spool***

Select **On** to enable spooling.

### ***TCP-MSS***

Select this to enable the TCP-MSS mode.

### ***IPv4 Subnet 1 to 3***

Enter a subnet address.

### **Port 9100**

#### ***Port***

Select this to use Port 9100.

Select this option when the communication protocol is in RAW format for Windows® Standard TCP/IP port monitor.

#### ***Port Number***

Enter a port number for Port 9100 from 1 to 65535.

The default value is 9100.

#### **NOTE:**

- Do not use the numbers assigned to the other ports.

#### ***PJL***

Select this to enable PJL. PJL allows you to specify the printer language to use for your next job regardless of the printer language currently being used.

#### ***Print Mode***

Select a print mode. The available options are **Auto**, **PostScript 3**, **HP-GL/2**, **PCL 6/5e**, and **TIFF/JPEG**. Selecting **Auto** enables the machine to automatically determine and use the most suitable language to print data received from the host device.

#### ***Timeout***

Sets the connection time-out period.

#### ***TBCP Filter***

Select this to enable TBCP filter for PostScript data. When the transmission data includes binary data or EPS data, disable this.

#### ***TCP-MSS***

Select this to enable the TCP-MSS mode.

#### ***IPv4 Subnet 1 to 3***

Enter a subnet address.

## SMB

### **Port**

Select this to enable the port.

### **WINS Server Address Acquisition by DHCP**

Select this to get a server address through DHCP. This is effective when the **Mode** setting for **IPv4** is set to **DHCP**.

### **Primary WINS Server Address, Secondary WINS Server Address**

When disabling **WINS Server Address Acquisition by DHCP**, enter a server address.

## SMTP

Configure the SMTP server settings.

### **Email Submission**

Set whether or not to enable the e-mail submission port.

### **Email Notification**

Set whether or not to enable the e-mail notification port.

### **Device Email**

Enter the E-mail address of the machine with up to 128 characters.

### **SMTP Server**

- **Server Address**

Opens the screen to set the SMTP server address.

Enter the address manually or click **Select Server from List** to search the SMTP server to set the server address.

- **Outgoing SMTP Port Number**

Enter a port number in the range from 1 to 65535.

The default value is 25.

 **NOTE:**

- Do not use the numbers assigned to the other ports.

### **Connection Security**

Set the SSL / TLS communication for SMTP.

### **Outgoing SMTP Authentication**

- **SMTP Authentication**

Select the authentication method for sending E-mail.

 **NOTE:**

- If **POP Before SMTP** is selected, the POP3 settings must be set.
- AUTH GSSAPI (only for Kerberos), AUTH NTLMv2, AUTH NTLMv1, AUTH PLAIN, AUTH-LOGIN, or AUTH CRAM-MD5 can be used as an authentication method.

- **SMTP AUTH User Name**

Enter the user name for verification purposes at the SMTP server with up to 64 characters.

- **SMTP AUTH Password, Retype Password**

Enter the password for verification purposes at the SMTP server. Up to 64 single-byte characters are allowed.

## **SNMP**

### ***Port***

Select this to use SNMP, when you use any web applications to control the machine on the network.

### ***Send Authentication Error Traps***

Select this to notify authenticate error traps.

### ***SNMPv1/v2***

Select this to change the settings for **SNMPv1/v2**.

### ***Enable***

Select this to enable SNMPv1/v2.

### ***Community Names***

#### ***Community Name Read Only***

Specify the community name to use for Read Only.

#### ***Community Name Read/Write***

Specify the community name to use for Read/Write.

#### ***Default Trap Community Name***

Specify the community name to use for trap notification.

#### ***System Administrator Login ID***

Specify the login ID of the system administrator.

### ***SNMPv3***

Select this to change the settings for **SNMPv3**. This is available when HTTPS (SSL) is enabled.

### ***Enable***

Select this to enable SNMPv3.

### ***System Administrator Account***

#### ***User Name***

Displays the user name of the System Administrator.

### **Message Digest Algorithm**

Select a type of algorithm.

### **Authentication Password, Retype Password**

Enter a password with up to 33 bytes.

### **Message Encryption Algorithm**

Select a message encryption algorithm from **DES** and **AES-128**.

### **Encryption Password, Retype Password**

Enter a password with up to 33 bytes.

### **Print Drivers Account**

#### **Message Digest Algorithm**

Displays the type of algorithm.

#### **Message Encryption Algorithm**

Displays the message encryption algorithm: **DES** or **AES-128**.

#### **Reset to Default Password**

Resets the password.

#### **Trap Destination**

Allows you to register destinations.

#### **NOTE:**

- In multi-interface environment, set for each interface.

#### **Trap Destination**

Select **(Available)** to register an address.

#### **SNMP Version**

Sets the SNMP version.

#### **Type**

Select an address type.

#### **IP Address : Port**

Enter an address and a port number.

#### **Trap Community Name**

Sets the trap community name for **SNMPv1/v2**.

#### **User Name**

Select **Xadmin** or **Xdrivers** for **SNMPv3**.



## Traps to Be Received

Select types of traps to be received.

- **Printer Traps**
- **Job Monitoring Traps**
- **Cold Start Traps**
- **Warm Start Traps**
- **Authentication Error Traps**

## SNTP

### Time Server Synchronization

You can synchronize the machine clock with a time server (NTP: Network Time Protocol), receiving time information from the server.

Select this to enable synchronization.

### Time Server Address

Set the server name or IP address of the time server.

### Time Synchronization Interval

Enter a time interval value to connect to the time server.

## SOAP

### Port

Select this to enable the SOAP port.

## Web Services on Devices (WSD)

Web Services on Devices (WSD)	
WSD Print	<input checked="" type="checkbox"/>
Port Number	1-65535 80
PJL	<input checked="" type="checkbox"/>
Print Mode	Auto
TBCP Filter	Disabled
Data Reception Timeout	1-65,535 Seconds 30
Notification Delivery Timeout	1-60 Seconds 8
Maximum IP Packet TTL	1-10 1
Maximum Number of Subscribers	10-100 50
<input type="button" value="Cancel"/> <input type="button" value="OK"/>	

### WSD Print

This feature is for Web Services on Devices (WSD) Print, and is enabled by factory default. It is recommended that you do not disable this feature. You can search your networks for your printer from Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows Server 2008 R2, Windows Server 2012 R2, or Windows Server 2016.

### Port Number

Enter a port number from 1 to 65535.

The default value is 80.

**NOTE:**

- Do not use a number that is the same as a port number of another port. However, you can use the same port number for a port that uses HTTP (IPP, Internet Services (HTTP), UPnP Discovery, SOAP, WebDAV, and Web Services on Devices (WSD)).

### **PJL**

Select this to enable PJL. PJL allows you to specify the printer language to use for your next job regardless of the printer language currently being used.

### **Print Mode**

Select a print mode. The available options are **Auto**, **PostScript 3**, **HP-GL/2**, **PCL 6/5e**, and **TIFF/JPEG**. Selecting **Auto** enables the machine to automatically determine and use the most suitable language to print data received from the host device.

### **TBCP Filter**

Select this to enable TBCP filter for PostScript data. When the transmission data includes binary data or EPS data, disable this.

### **Data Reception Timeout**

Enter a timeout period for receiving data from Web Services on Devices (WSD) clients.

### **Notification Delivery Timeout**

Enter the timeout period for delivering notification to Web Services on Devices (WSD) clients.

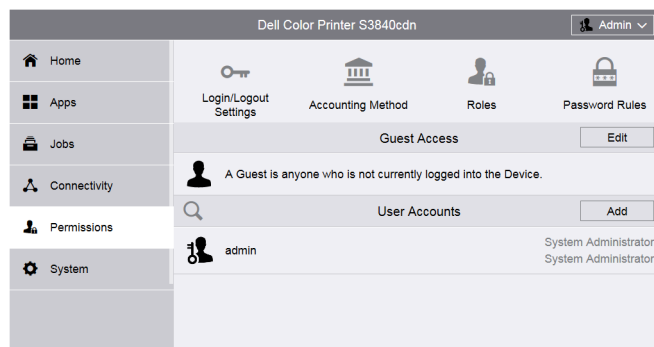
### **Maximum IP Packet TTL**

Enter a value for the maximum TTL.

### **Maximum Number of Subscribers**

Enter the maximum number for reserved notification.

## **Permissions**



### **Guest Access**

A Guest is anyone who is not currently logged in to the printer.

You can set the Guest permissions on operations from the control panel and **Dell Printer Configuration Web Tool**. You can also set permissions on printing features.

To set the Guest permissions on operations from the control panel or **Dell Printer Configuration Web Tool**, click **Edit** and select **Device User Role**. For details, see "Device User Roles".

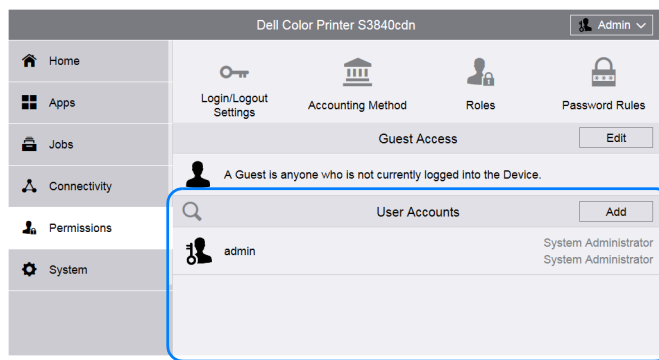
To set the Guest permissions on printing features, click **Edit** and select **Printing User Role**. For details, see "Printing User Roles".

 **NOTE:**


- A feature allowed for Guest will be automatically allowed for all the other roles.

## User Accounts

In **User Accounts**, You can add a new user account and edit the existing user accounts.



To add a new user account, click **Add**. For details, see "Creating New Accounts from the Dell Printer Configuration Web Tool".

To edit an existing user account, select the user account. The  button allows you to search a user. For details, see "Editing User Accounts from the Dell Printer Configuration Web Tool".

## Login/Logout Settings

### Login Method

Select the login method and make the settings for the method.

#### **Simple**

Authenticates users based on the user information registered on the printer.

Passwords are not required to log in to the printer.

Select **Pick their user name from a list.** or **Type in their user name.**

#### **Local**

Authenticates users based on the user information registered on the printer.

Passwords are required to log in to the printer.

Select **Pick their user name from a list.** or **Type in their user name.**


## Network

You can set **Kerberos (Windows ADS)**, **SMB (Windows ADS)**, and **LDAP**.

- **Kerberos (Windows ADS)**

<b>Default Server</b>	<b>Realm</b>	Specify the realm.
	<b>Server Address</b>	Specify the server address.
<b>Add Additional Server</b>	Clicking <b>Add Additional Server</b> adds the <b>Alternate Server</b> section to the screen. Set <b>Realm</b> and <b>Server Address</b> for the alternate server.	

- **SMB (Windows ADS)**

<b>Specify Server By</b>	Select the server specification method from <b>Domain Name</b> and <b>Domain Name and Host Name/IP Address</b> .	
<b>Default Server</b>	<b>Domain</b>	Enter the domain name of the server.
		 <b>NOTE:</b> <ul style="list-style-type: none"> <li>• Use the NetBIOS or Active Directory domain name for the domain name.</li> </ul>
	<b>Server Address</b>	Specify the server address.
<b>Add Additional Server</b>	Clicking <b>Add Additional Server</b> adds the <b>Alternate Server</b> section to the screen. You can set <b>Domain</b> and <b>Server Address</b> for the alternate server.	

- **LDAP**


For details on the LDAP settings, see "LDAP".

## Convenience

Set the following **Convenience Login** settings:


 **NOTE:**

- This feature requires an additional application to be developed.

<b>Server</b>	<b>Type</b>	You can select the server type from <b>IPv4</b> and <b>Host Name</b> .
	<b>IP Address : Port</b>	When selecting <b>IPv4</b> , enter the server IP address and the port number. When selecting <b>Host Name</b> , enter the host name.
		 <b>NOTE:</b> <ul style="list-style-type: none"> <li>• For IPv4, enter the address in the format "xxx.xxx.xxx.xxx", where "xxx" is a numeric value from 0 to 255. Do not use the numbers assigned to the other ports.</li> </ul>
	<b>Path</b>	Enter the server path.
<b>Alternate Login</b>	Select whether or not to allow users to log in without their card.	
<b>Card Reader</b>	Select whether or not to disable the printer if the card reader is disconnected.	
<b>Accounting Codes</b>	Select from <b>Get codes automatically from server.</b> and <b>Users must manually enter codes at the Device.</b>	
<b>Device Website Login Method</b>	You can select the website login method.	

## Smart Card

Set the following **Smart Card** settings:

<b>Domain Controller</b>	<ul style="list-style-type: none"> <li>When no domain controller is registered: Click <b>Add</b> or  to add a domain controller. The <b>Add Domain Controller</b> screen appears. Set the new domain controller settings in the <b>Add Domain Controller</b> screen.</li> <li>When any controller is registered: The controller is displayed under <b>Domain Controller</b>. To edit an existing controller, click the controller. The <b>Edit Domain Controller</b> screen appears. Set the existing domain controller settings in the <b>Edit Domain Controller</b> screen.</li> </ul>
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 **NOTE:**

- Smart Card requires at least one domain controller.

<b>Validate</b>	Enable the following as necessary: <b>Validate the domain controller certificate returned by the domain controller server against the domain controller certificate stored on the Device.</b>
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<b>Options</b>	<b>Timeout</b>	Set the time-out between 1 and 120 seconds in 1 second increments.
	<b>SNTP</b>	Select whether or not to enable SNTP.

<b>Device Website Login Method</b>	You can select the website login method.
------------------------------------	--

## Logout Confirmation


Select the log-out confirmation method from the following:

<b>Log out user immediately.</b>
<b>Ask user for confirmation before logging out.</b>

## Advanced Settings


### Input Settings

<b>Case Sensitive User Name</b>	Select whether or not to ignore the case for log-in user name.
---------------------------------	--



 **NOTE:**

- This item is displayed when **Login Method** is set to other than **Convenience**.

### Authentication Settings

<b>Log Failed Login Attempts</b>	Set the failure count to detect unauthorized access. An error is logged if authentication fails the number of times specified in <b>Failed Login Attempt Limit</b> within a predetermined time (10 minutes).
<b>Limit Login Attempts of System Administrator</b>	<p>This feature protects the settings from being changed by someone impersonating your system administrator. If authentication for a system administrator's ID fails more than specified times continuously, access is denied.</p> <p>You can specify a login attempt count from 1 to 10.</p> <p> <b>NOTE:</b></p> <ul style="list-style-type: none"> <li>The failure count is reset when the machine is restarted.</li> <li>To cancel the access rejection state, restart the machine by switching off and on the power.</li> </ul>

<b>Server Authentication Response Timeout</b>	Set the server time-out response between 1 and 75 seconds in 1 second increments.
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<b>Search Timeout</b>	Set the user information search time-out between 1 and 120 seconds in 1 second increments.
<b>Display User Name</b>	Select from <b>Hide</b> , <b>Hide Smart Card ID</b> , and <b>Show</b> .
<b>Obtain User Information at Login</b>	When you select <b>On</b> , the following user information is acquired at authentication. <ul style="list-style-type: none"> <li>• Certificate for encryption</li> </ul>
<b>Store Login Information on Device</b>	Select whether or not to save the user information used for remote authentication. While the user information is saved in the machine, the machine can authenticate the user using the information saved in the machine even when the remote server is off. <p> <b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• This setting applies only to a user who is authenticated by a card.</li> </ul>
<b>Delete Saved Login Information</b>	Select whether or not to delete the user information saved in the machine for remote authentication. Select from <b>Off</b> , <b>Weekly</b> , and <b>Monthly</b> . For <b>Weekly</b> , you can set the day and time. For <b>Monthly</b> , set the date and time. To delete the user information immediately, click <b>Delete Now</b> . <p> <b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• This setting applies only to a user who is authenticated by a card.</li> </ul>

## Accounting

Click **Accounting Method** to select the accounting method and make the accounting settings.

 **NOTE:**

- In the Permissions screen, **Accounting** is displayed instead of **Accounting Method** when **Accounting Method** is set to **ColorTrack**. To select the accounting method, click **Accounting** and then select **Accounting Methods**. To set general accounts, click **Accounting** and then select **General Accounts**.

## Accounting Method

### No Accounting

Does not perform accounting.

### ColorTrack

Accounting is carried out based on the user information and account information pre-registered on the machine. Set the following settings:

- **What to Track**

You can set whether to track the number of all prints or only the number of color prints.

<b>Exceptions</b>	<b>Allow Guests (No Accounting Code)</b>	Set whether or not to allow the print jobs of Guests (jobs with no accounting code).
	<b>Allow IPP (Including AirPrint™ and Mopria™)</b>	Set whether or not to allow the print jobs via IPP. When you enable this setting, select whether or not to allow invalid accounting codes.
	<b>Allow Specific Computers</b>	Set whether or not to allow the print jobs from specific computers. When you enable this setting, enter the address or hostname, and user ID to specify the computer.

- **User ID**

– **Mask Input**

To mask the entered user ID, enable **Mask Input**.

- **Schedule Usage Data Reset**

Selecting **Reset** for **ColorTrack** on the **Accounting Method** screen displays the **Schedule Usage Data Reset** screen. You can reset the usage data automatically at a specified time. Select **Yearly**, **Quarterly**, or **Monthly**, and specify the date and time to delete the usage data.

- **Download Report**

Selecting **Report** for **ColorTrack** on the **Accounting Method** screen displays the **Download Report** screen. Select whether or not to include the user names to the report, and click **Download**.

### Network Accounting

Performs accounting based on the user information managed on a remote service. User information is registered on the remote service.



**NOTE:**

- When **Network Accounting** is selected, users are prompted to enter their Account ID on the login screen that is displayed when attempting to use services required for accounting.

<b>Limits</b>	<b>Limits Server</b>	Enter the server URL and specify the connection time-out.
	<b>What to Limit</b>	Specify the features to limit.
	<b>Job Limit Communication Error Handling</b>	Select the way of handling a print job error.
<b>Tracking Information</b>	Set the information to be collected.	
	Set <b>Default Label</b> , <b>Default Value</b> , <b>Ask Users</b> , and <b>Mask Input</b> for <b>User ID</b> and <b>Account ID</b> .	
	Under <b>When to Prompt</b> , select <b>No Prompt</b> , <b>Always Prompt</b> , or <b>Color Only</b> .	
<b>Information Verification</b>	<b>Enable</b>	Allows you to set whether or not to verify user information.
	<b>Verify All Jobs Including Network Print Jobs</b>	Select from <b>Off</b> , <b>On</b> , and <b>On With Exceptions</b> .
<b>Exceptions</b>	<b>Allow Guests (No Accounting Code)</b>	Set whether or not to allow the print jobs of Guests (jobs with no accounting code).
	<b>Allow IPP (Including AirPrint™ and Mopria™)</b>	Set whether or not to allow the print jobs via IPP. When you enable this setting, select whether or not to allow invalid accounting codes.
	<b>Allow Specific Computers</b>	Set whether or not to allow the print jobs from specific computers. When you enable this setting, enter the address or hostname, and user ID to specify the computer.


### Roles

The device user roles define the permissions on operations from the control panel and **Dell Printer Configuration Web Tool**, and the printer user roles define the permissions on printing features. You can create roles and assign each role to the users.

Also you can set the permissions server and the LDAP permissions group.

## Device User Roles

- Adding new roles

You can add new roles by selecting . Selecting  displays **Add New Role** and **Add New Role from Existing**.

To create a new role, select **Add New Role**. For details, see "Add Role".

To use the settings of an existing role as a base to create a new role, select **Add New Role from Existing**. For details, see "Add New Role from Existing".

- Checking and editing existing roles

The existing user roles are displayed under **Device User Roles**.

To change the settings of a role, click **Edit**.

To check, add, or delete the role members, click **Members**.

### **NOTE:**

- The number of the role members is displayed after **Members**.
- The **System Administrator** role cannot be edited or deleted.

### – **Edit Role**

In the **Edit Role** screen, you can set the role settings. For details on the settings, see "Add Role".

### – **Members**

The role members registered on the machine are displayed under **Members**.

To add a new member to the role, click .

To change the settings of a member, click the user name and make the settings in the user details screen. For details, see "Editing User Accounts from the Dell Printer Configuration Web Tool".

## **Add Role**

- **Role Name**

Enter the role name.

You can enter the description of the role.

- **Control Panel Permissions**

You can select the default permissions on operations from the control panel from **Everything Except Setup** and **Access All**.

To give the role permissions other than above, set custom permissions. Selecting **Custom Permissions** allows setting the **Custom Permissions Setup**, where you can set the detailed permissions for each feature.



The following shows the **Custom Permissions** settings.



**NOTE:**

- Some settings may differ from the list depending on the software version.

<b>Device Permissions</b>	<b>Access Device</b>
	<b>View Information Pages (under About) and Support Page</b>
	<b>Configure Paper Tray Settings</b>
	<b>View Supplies</b>
	<b>Configure Supplies Settings</b>
	<b>View Billing/Usage</b>
	<b>View General, Apps, and Connectivity</b>
	<b>View Network Information</b>
<b>Home Permissions</b> <sup>*1</sup>	<b>Access Home</b>
<b>Jobs Permissions</b>	<b>Access Jobs</b>
	<b>View Completed Jobs</b>
	<b>View Job Details</b>
	<b>Delete Jobs</b>
<b>Print from USB Permissions</b>	<b>Access USB</b>
	<b>Access Print from USB</b>
<b>App Platform Permission</b> <sup>*2</sup>	<b>Access App Platform</b> <sup>*2</sup>

\*1: This item is displayed only when you set the Guest permissions.

\*2: The application name is displayed instead of "App Platform".

- **Device Website Permissions**

You can select the default permissions on operation from **Dell Printer Configuration Web Tool** from **Everything Except Setup** and **Home Only**.

To give users permissions other than above, set custom permissions. Selecting **Custom Permissions** allows setting the **Custom Permissions Setup** screen, where you can set the detailed permissions for each feature.

The following shows the **Custom Permissions** settings.

<b>Home Permissions</b> <sup>*1</sup>	<b>Access Home</b>
<b>Jobs Permissions</b>	<b>Access Jobs Page</b>
	<b>View Completed Jobs</b>
	<b>View Job Details</b>
	<b>Delete Jobs</b>

\*1: This item is displayed only when you set the Guest permissions.

### **Add New Role from Existing**



You can use an existing role as a base to create a new role. Select a base role from the existing roles, and select whether or not to transfer any members to the new role.

When transferring any members registered on the machine to the new role, select the members in the **Add Members** screen and click **Done**.

Set the subsequent settings as in creating a new role.

## Printing User Roles

- Adding new roles

You can add new roles by selecting . Selecting  displays **Add New Role** and **Add New Role from Existing**.

To create a new role, select **Add New Role**. For details, see "Add Role".

To use the settings of an existing role as a base to create a new role, select **Add New Role from Existing**. For details, see "Add New Role from Existing".

- Checking and editing existing roles

The existing user roles are displayed under **Printing User Roles**.

To change the settings of a role, click **Edit**.

To check, add, or delete the role members, click **Members**.

### **NOTE:**

- The number of the role members is displayed after **Members**.
- **Basic Printing User** is automatically assigned to a user with no role assigned.

### – **Edit Role**

In the **Edit Role** screen, you can set the role settings. For details on the settings, see "Add Role".

### – **Members**

The role members registered on the machine are displayed under **Members**.

To add a new member to the role, click .

To change the settings of a member, click the user name and make the settings in the user details screen. For details, see "Editing User Accounts from the Dell Printer Configuration Web Tool".

## Add Role

- **Role Name**

Enter the role name.


You can enter the description of the role.

- **Printing Permissions**

<b>Unlimited Printing</b>	Users can print documents without restrictions.
<b>Weekdays, 8 AM to 5 PM</b>	Users can print documents on Monday through Friday from 8 AM to 5 PM. Users can print 1-sided and in color.
<b>Eco-Friendly</b>	Users can only print 2-sided and in black-and-white.
<b>Unlimited Black &amp; White Printing, No Color Allowed</b>	Users can only print in black-and-white without restrictions.

### **NOTE:**

- When color printing is not allowed, a print job instructed as color printing is automatically output in black-and -white.

<b>Custom Permissions</b>	<b>Print Time Permissions</b>	You can set the permissions on black-and-white printing and color printing for specific days and times.
	<b>Allowed Job Types</b>	You can set permissions on the printing job types.
	<b>1-Sided Output</b>	You can set whether or not to allow 1-sided printing.  <b>NOTE:</b> <ul style="list-style-type: none"> <li>When 1-sided printing is not allowed, a print job instructed as 1-sided printing is automatically output 2-sided.</li> </ul>
	<b>Allowed Paper Trays</b>	You can set the permissions on the use of trays.

### Add New Role from Existing

You can use an existing role as a base to create a new role. Select a base role from the existing roles, and select whether or not to transfer any members to the new role.

When transferring any members registered on the machine to the new role, select the members in the **Add Members** screen and click **Done**.

Set the subsequent settings as in creating a new role.

### Setup LDAP Permissions Groups

You can enable permissions to be handled by a remote server.

To register a new LDAP server, select **New LDAP Server** and click **OK**. Make the settings in the LDAP screen. For information on the LDAP settings, refer to "LDAP".

#### NOTE:

- This item is displayed when no permission server is used.

### Edit Permissions Server

You can change the server being used or stop using permissions groups.

#### NOTE:

- This item is displayed when **Permissions Server** is set to other than **Off - Do not use a Permissions Server**.

### Edit LDAP Groups

You can add, edit, and delete LDAP groups.

#### NOTE:

- This item is displayed when **Permissions Server** is set to other than **Off - Do not use a Permissions Server**.

- Adding LDAP groups

To add an LDAP group, select **+**. Make the settings for the LDAP group in the **Add LDAP Group** screen.

- Enter a group name and click the  button.
- Select the group from **Results**, and click **Next**.
- Select a device user role in the **Select Device User Role** screen, and click **Next**.
- Select a printing user role in the **Select Printing User Role** screen.

- Editing LDAP groups

Selecting an existing LDAP group displays the following.

<b>Change Device User Role</b>	You can change a device user role set to the LDAP group.
<b>Change Printing User Role</b>	You can change a printing user role set to the LDAP group.
<b>View Members</b>	The user names related to the LDAP group are listed.
<b>Remove Group</b>	Removes the LDAP group.

## Password Rules

### Minimum Length

Set this item when you specify the minimum number of digits allowed for registering a passcode.

Set a value from 1 to 63 in 1 digit increments.

### Maximum Length

Set this item when you specify the maximum number of digits allowed for registering a passcode.

Set a value from 1 to 63 in 1 digit increments.

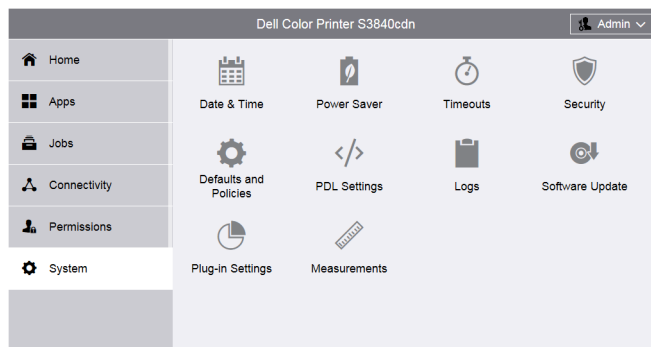
### Password Contains User Name

Select whether or not to allow a password which contains the user name.

### Password Complexity

You can select if passwords must include a number or a non-alphanumeric character.

## System



### Date & Time

Set the date and time for the system clock of the machine. The date and time set here will be printed on all lists and reports.

#### Date

##### *Date Format*

Select a date format.

- **Year/Month/Day**
- **Month/Day/Year**
- **Day/Month/Year**

### ***Date***

Enter the today's date. You can use the calendar to specify the date.

### **Time**

Select **12-Hour Clock** or **24-Hour Clock** for the time format.

### ***AM/PM***

When selecting **12-Hour Clock** for **Time**, select **AM** or **PM**.

### ***Time***

Enter the current time.

### ***Time Zone***

Select a time zone.

## **Daylight Savings Time**

You can set daylight saving time. During daylight saving time period, the machine moves the clock forward by one hour.

## **SNTP Settings**

Select **Edit** to confirm or change the settings.

See "SNTP".

## **Power Saver**

### **Power Saving**

The Power Saver mode has two modes: the Low Power and Sleep modes. When a specified period of time has elapsed, the machine switches to these modes in the following order to reduce power consumption.

Last operation on the machine → Low Power mode → Sleep mode

#### **NOTE:**

- For **Low Power Timeout** and **Sleep Timeout**, you can enter values of up to 60 minutes in total.

### ***Low Power Timeout***

Specify a time period to enter the Low Power mode after the last operation.

### ***Sleep Timeout***

Specify a time period to enter the Sleep mode after entering the Low Power mode.

## Auto Power Off

### *Auto Power Off*

Automatically turns the printer off after a specified time has elapsed from the Sleep mode. When using this feature, enter a value for turning the printer off in **Auto Power Off Timeout**.

- **Off**  
Does not use this feature.
- **On**  
Turns the printer off when the specified time has elapsed.
- **Only When Conditions Are Met**  
Turns the printer off only when the following conditions are all met for the specified time.
  - The USB device port is not used.
  - The wired network port is not used.
  - The wireless connection is not used.

## Timeouts

### Reset Device Control Panel

#### *System Timeout*

Specify the time lapsed without any operation on the control panel until the machine resets the settings and logs you out automatically.

### Reset Device Website

#### *Device Website Timeout*

Specify the time lapsed without any operation on **Dell Printer Configuration Web Tool** until you log out automatically.

## Security

### *Firmware Verification*

Set whether or not to perform self test when the machine is turned on and started up. If any abnormal condition such as intentional program modification is found during the program diagnosis, the machine stops starting up and records the information in the audit log.

#### **NOTE:**

- The information may not be recorded in the audit log depending on the status of program malfunction.

### *Feature Enablement*

Entering **Unique Function Code** enables custom features specially provided to the user.

## Service Rep. Restricted Operation

Allows you to select whether or not to restrict the operation by our service representative to protect the security settings from being altered by someone impersonating our service representative.

When enabling this setting, you can set a **Maintenance Password** of 4 to 12 digits.

Entering the passcode is required when our service representative performs maintenance.

### NOTE:

- When enabling this setting, note the followings:
  - If you lose the System Administrator's passcode, the items restricted to the service representative cannot be changed.
  - If you lose the passcode, our service representative cannot perform maintenance in the case when an error occurs in the machine.
- To change the restricted items or perform maintenance, the electric circuit board of the machine must be replaced.  
You will be charged for the electrical circuit board and handling cost.  
Be sure not to lose the System Administrator's passcode.

## Certificates

### Security Certificates

Set the certificate settings.

Select the certificate type from **Device Certificates**, **Trusted Root CA Certificates**, **Intermediate CA Certificates**, **Other Certificates**, and **CRL**.

- Creating a device self-signed certificate

Select **Device Certificates** from the dropdown menu, and click **Create**. Then select **Create Self-Signed Certificate**. Set the following for the new device certificate.

Hash Algorithm	Select from <b>RSA/SHA-256</b> , <b>RSA/SHA-384</b> , and <b>RSA/SHA-512</b> .
Public Key Length	Select from <b>1024 Bits</b> and <b>2048 Bits</b> .
Issuer	Enter the name of the certificate issuer.
Validity Period	Select the <b>Validity Period</b> from 1 to 9999 days.

- Creating a certificate signing request (CSR)

Select **Device Certificates** from the dropdown menu, and click **Create**. Then select **Create Certificate Signing Request (CSR)**. Set the following for the CSR.

Hash Algorithm	Select from <b>RSA/SHA-1</b> and <b>RSA/SHA-256</b> .
Public Key Length	Select from <b>1024 Bits</b> and <b>2048 Bits</b> .
2-Letter Country Code (C)	Specify the information required to create the CSR.
State/Province Name (ST)	
Locality Name (L)	
Organization Name (O)	
Organization Unit (OU)	
Common Name (CN)	
Email Address	

- Importing a certificate

Select a certificate type from the drop down menu, and click **Import**.

The **Import Certificate** screen appears.

Select the certificate and enter the password. Then click **Import**.

- Deleting a certificate

Check the certificate to delete and click **Delete**.

- Checking certificate details

Clicking the certificate displays the **Certificate Details** screen, where you can check the following settings.

<b>Category</b>	Displays the certificate category.
<b>Subject</b>	Displays the owner of the certificate.
<b>Issuer</b>	Displays the issuer of the certificate.
<b>Serial Number</b>	Displays the serial number of the certificate.
<b>Hash Algorithm</b>	Displays the hash algorithm of the certificate.
<b>Public Key Length</b>	Displays the minimum encryption key length of the certificate.
<b>Valid From</b>	Displays the start date and time of the validity period of the certificate.
<b>Valid To</b>	Displays the end date and time of the validity period of the certificate.
<b>Validity</b>	Displays the current validity of the certificate.
<b>Certificate Use</b>	Displays the purpose of the certificate.
<b>Selected Usage</b>	Displays the setting status of the certificate in the machine.

Clicking **Export** exports the certificate to the client computer.

### **Automatic Self-Signed Certificate Creation**

This feature automatically creates a self-signed certificate when no device certificate is available, and also automatically updates the certificate before expiration.

#### **NOTE:**

- Manually created self-signed certificates are not automatically updated.

### **Certificate Path Validation**

Select whether or not to enable the certificate path validation.

### **Certificate Revocation Settings**

Configure the settings for certificate revocation retrieval.

<b>Level of Certificate Verification</b>	Select a level of certificate verification from <b>Low</b> , <b>Medium</b> , or <b>High</b> . Selecting <b>Low</b> does not verify the validity of certificates. Selecting <b>Medium</b> verifies the validity of certificates. If a certificate cannot be verified because of a network error or any other problems, the certificate is determined as valid. Selecting <b>High</b> verifies the validity of certificates, and determines only certificates that have not been revoked as valid.
<b>Certificate Revocation Check</b>	Select the method to verify the validity of certificates. Select <b>By Retrieving CRL</b> if the machine retrieves a CRL (Certificate Revocation List) from the validation authority to verify the revocation status of the certificate. Select <b>By OCSP</b> if the machine uses OCSP (Online Certificate Status Protocol), which can verify the validity revocation status of the certificate, to have the certificate authority or validation authority check the revocation status.



<b>OCSP</b>	<b>Send Query to Responder With</b>	Select how to access an OCSP responder from <b>URL as Specified in Certificate</b> or <b>URL as Specified by Administrator</b> .
	<b>Responder URL</b>	Enter the URL of an OCSP responder when <b>URL as Specified by Administrator</b> has been selected for <b>Send Query to Responder With</b> . Up to 255 characters are allowed.
	<b>Communication Timeout</b>	Specify a time-out value for OCSP communication from 5 to 60 seconds in 1 second increments.
<b>CRL Retrieval</b>	<b>Auto Retrieval of CRL</b>	Select whether or not to automatically retrieve a CRL.
	<b>Communication Timeout</b>	Specify a time-out value to retrieve a CRL from 5 to 60 seconds in 1 second increments.

### **Smart Card**

Select from **Off** and **On - PKI Only**.

Select **On - PKI Only** to use smart cards only for the security feature, not for authentication or job control.

### **Smart Card Certificate Verification**

Set whether or not to verify the smart card certificate when a user uses the smart card.

When this setting is enabled, the owner of the smart card is verified not only by PIN code verification but by certification verification of the smart card and private key match. In this case, the upper level CA certificate of the smart card certification must be registered on the machine.

When this setting is disabled, the owner of the smart card is verified by PIN code verification.

## **Network Security**

### **FIPS 140-2**

Select whether or not to enable FIPS140 validation mode.


#### **NOTE:**

- Although the following features work with the FIPS140 validation mode, using them is not recommended because they use encryption algorithms which do not comply with FIPS140.
  - SMB (Scan To/SMB authentication) (using DES and MD4 used in SMB authentication (NTLMv2/NTLMv1/LM))
  - LDAP Authentication (using DES and MD4 used in NTLM authentication selected by the automatic selection "SASL-Bind (NTLM) → Simple-Bind")
  - SMTP Authentication (using DES and MD4 used in NTLM authentication selected by the automatic selection "NTLM → CRAM-MD5 → LOGIN → PLAIN")
  - HTTP Authentication for External Access (using DES and MD4 used in NTLM authentication selected by the automatic selection "NTLM → Digest → Basic authentication")
  - PDF Direct Print (using RC4 required in decrypting a PDF document encrypted with a password (RC4))

## SSL/TLS Settings

Configure the SSL/TLS settings.

Select the protocol from **SSL 3.0**, **TLS 1.0**, **TLS 1.1**, and **TLS 1.2**.

<b>Device Certificate - Server</b>	Select a certificate for SSL/TLS communications.
<b>HTTP - SSL/TLS Communication</b>	Select whether or not to enable HTTP SSL/TLS communications.
<b>HTTP - SSL/TLS Port Number</b>	Set the port number used for HTTP SSL/TLS communication from 1 to 65535. The default value is 443.  <b>NOTE:</b> <ul style="list-style-type: none"><li>Do not use the numbers assigned to the other ports.</li></ul>
<b>LDAP - SSL/TLS Communication</b>	Set whether or not to enable the SSL/TLS communications for authentication and searches. If you enable the LDAP SSL/TLS communications, you must set <b>IP Address/Host Name : Port</b> and <b>Backup IP Address/Host Name : Port</b> under <b>LDAP Servers/Directory Services</b> . The port number for SSL/TLS communications of the LDAP directory server is normally set to 636.
<b>SMTP - SSL/TLS Communication</b>	Select the SSL/TLS communication from <b>Disabled</b> , <b>STARTTLS (If Available)</b> , <b>STARTTLS</b> , and <b>SSL/TLS</b> .
<b>Device Certificate - Client</b>	Select a certificate for HTTP SSL/TLS communications.
<b>Verify Remote Server Certificate</b>	When the machine is operated as an SSL client, select whether or not to verify the certificate of the remote server.

## Port Settings

Displays a list of available ports. To register a port, click **Add**.

### Add New Port

#### Port Number

Enter a port number.

#### Port Type

Select the type of the port.

- **Source**
- **Destination**

#### Protocol

Select the type of the protocol.

- **TCP**
- **UDP**

## IP Address Filtering

Allows you to register IP addresses that can access the printer.

### NOTE:

- Up to 25 IP addresses and IP masks can be added for each interface.

## IPv4 Address Filtering

Select this to register IPv4 addresses that the machine accepts connection from.

### Allowed IP Address/Subnet Mask

Select **Add**, and then enter an IP address and an IP mask (Subnet Mask).

To set an IP mask, enter a number from 0 through 32. The number range corresponds to the 32-bit binary number comprising IP addresses.

For example:

- When only one IP address (192.0.2.1) can be used:
  - IP Address: 192.0.2.1
  - IP Mask: 32
- When multiple IP addresses (192.168.10.1 to 192.168.10.255) can be used:
  - IP Address: 192.168.10.1
  - IP Mask: 24



#### NOTE:

- The setting applies to all features using TCP/IP, such as Print and **Dell Printer Configuration Web Tool**.

## IPv6 Address Filtering

Select this to register IPv6 addresses that the machine accepts connection from.

### Allowed IP Address/Subnet Mask

Select **Add**, and then enter an IP address and an IP mask (Subnet Mask).

To set an IP mask, enter a number from 0 through 128. The number range corresponds to the 128-bit binary number comprising IP addresses.

For example:

- When only one IP address (2001:D880:ABCD:EF01:0:20:3:4567) can be used:
  - IP Address: 2001:D880:ABCD:EF01:0:20:3:4567
  - IP Mask: 128
- When multiple IP addresses (2001:D880:ABCD:EF01:1:1:1:1 to 2001:D880:ABCD:EF01:FFFF:FFFF:FFFF:FFFF) can be used:
  - IP Address: 2001:D880:ABCD:EF01:0:20:3:4567
  - IP Mask: 64



#### NOTE:

- The setting applies to all features using TCP/IP, such as Print and **Dell Printer Configuration Web Tool**.

## Domain Filtering

Select an option to filter domains.

When **Allow Specific Domains** is selected, you can specify domains to permit transmissions. When **Block Specific Domains** is selected, you can specify domains to prohibit transmissions.

To disable this feature, select **Off**.

## ***Allowed Domains, Blocked Domains***

When **Domain Filtering** is set to **Allow Domains** or **Block Domains**, you can specify up to 50 domains to allow or block transmissions.

## **Defaults and Policies**

### **Common**

#### ***Startup Page***

Select whether to automatically print a startup page every time the printer is powered on.

- **Do Not Auto Print**  
Does not print a startup page.
- **Auto Print**  
Prints a startup page automatically.

### **Paper Supply**

#### ***Adjust Paper Type***

Select a type of image processing used for each of the following paper types: **Plain, Hole Punched, Pre-Printed**, and **Labels**.

### **Printer Settings**

You can configure related to the paper used in the printer.

#### ***Memory Settings***

You can change memory settings.

#### ***Specified Paper Is Unavailable***

When there is no tray containing the paper size selected by the Auto Paper selection, select whether or not to print with paper loaded in another paper tray. In the event of using a substitute tray, select the **Use Closest Size**.

#### **NOTE:**

- When documents are printed using emulation such as ESC/P, the substitute tray setting is not valid and a message prompting you to load paper displayed on the screen.

#### ***Bypass Tray Paper Type and Size Confirmation***

Select whether or not to confirm bypass tray paper type and size.

#### ***Resume Print After Error***

Set whether or not to automatically cancel a print job when the print job was suspended because of an error.

#### **NOTE:**

- The machine will enter the off-line state to restrict subsequent print jobs.

#### ***Auto Resume***

Automatically cancels the print job to print subsequent jobs.

### **Manual Resume**

Displays a confirmation screen before cancelling the print job. After the confirmation, the machine cancels the print job to print the subsequent jobs.

### **When Paper Jam Occurs**

Specify how the machine handles print jobs after a paper jam is cleared.

### **Resume Print After Jam Clearance**

When a paper jam is cleared, the machine automatically resumes printing from the next page of the page which was output correctly.

### **Cancel Print**

The machine cancels printing and removes the print job.

#### **NOTE:**

- For print files stored in a folder such as **Secure Print** and **Sample Set**, the machine resumes printing after the paper jam is cleared.

### **Print Banner Pages**

Set whether or not to print banner pages.

You can output a banner sheet to separate different jobs by users not to be mixed the outputs. The machine outputs the banner sheet before or after the job.

A date, time, user name, and file name are printed on the banner sheet.

#### **NOTE:**

- When a document is printed from a Macintosh, the document name is not printed on the banner sheet.
- When printed, banner sheets are counted by meter.

### **Paper Tray**

Select a paper tray used for banner pages.

### **Allow Print Driver to Override**

Select the check box to print a banner sheet according to the banner sheet print settings of the print driver.

### **Detect Client Banner Pages**

Set whether or not to detect client banner pages.

### **Toner/Power Optimization**

Select whether or not to apply **Eco Mode**.

- **Off**  
**Eco Mode** is not applied.
- **Eco Mode**  
**Skip Blank Pages, 2-Sided Print** and toner saving always applies for printing jobs.  
**Low Power Timeout** settings is changed to 1 minute.

## PDL Settings

This section describes the features you can select on the **PDL Settings** screen.

### PCL 6/5e Settings

Use the **PCL 6/5e** menu to change printer settings that only affect jobs using the Printer Control Language (PCL) emulation printer language.

#### Print Quantity Priority

Sets the default print quantity priority.

#### Print Quantity

Sets the default print quantity. Set the number of copies required for a specific job from the print driver. Values selected from the print driver always override values selected from the operator panel.

#### Paper Tray

Specifies the default paper tray.

#### Paper Size

Specifies the default paper size.

#### Paper Size (Bypass Tray)

Specifies the default paper size of bypass tray.

#### Custom Paper Size Width

Specifies the width of custom size paper.

#### Custom Paper Size Length

Specifies the length of custom size paper.

#### Output Color

Specifies the color mode. This setting is used for a print job that does not specify a Print Mode.

#### 2-Sided

Specifies whether to print on **1-Sided** or **2-Sided** of a sheet of print media. For a **2-Sided** printing, you can specify **Flip on Long Edge** or **Flip on Short Edge**.

#### Remove Blank Pages

Specifies whether or not to remove the blank pages.

#### Original Orientation

Specifies how text and graphics are oriented on the page.

#### Wide A4

Specifies whether to enable the wide A4.

### **Pitch Size**

Specifies the font pitch for scalable mono spaced fonts.

### **Point Size**

Specifies the font size for scalable typographic fonts.

### **Font Name**

Specifies the default font from the fonts registered in the printer.

### **Symbol Set**

Specifies a symbol set for a specified font.

### **Lines per Page**

Specifies the number of lines on page.

### **CR=CR, LF=CR+LF, FF=CR+FF**

Sets line termination processing.

- **Off**  
The line termination command is not added.
- **On**  
The LF/FF command is added.  
CR+LF/CR+FF

### **CR=CR, LF=CR+LF, FF=CR+FF**

Sets line termination processing.

- **Off**  
The line termination command is not added.
- **On**  
The CR command is added.  
CR+LF

### **Hex Dump**

Specifies whether to enable the Hex Dump feature, which helps to isolate the source of a print job problem. With **Hex Dump** selected, all data sent to the printer is printed in hexadecimal and character representation. Control codes are not executed.

### **Image Enhancement**

Specifies whether to enable the Image Enhancement feature, which makes the boundary line between black and white smoother to decrease jagged edges and enhance the visual appearance.

## PostScript®

Use the **PostScript®** menu to change printer settings that only affect jobs using the PostScript 3 emulation printer language.

### ***Print Error Sheet***

Specifies whether to print the contents of the errors concerning PostScript Compatible page description language.

### ***Paper Supply***

Specifies the way to select the tray for PostScript mode.

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<b>Auto Select</b>	The tray is selected as the same setting as in the PCL mode.
<b>PostScript Tray Setting</b>	The tray is selected in a method compatible with regular PostScript printers.

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## PDF Settings

Use the PDF menu to change printer settings that only affect the PDF Jobs.

### **Decomposer**

Select the print processing mode.

### **Print Quantity**

Specifies the number of copies to print.

### **Paper Size**

Specifies the output paper size for the PDF file.

### **Output Color**

Specifies the default output color.

### **2-Sided**

Specifies whether to print on one side or both sides of a sheet of print media. For a two-sided printing, you can specify the printout to be bound by the long edge or short edge.

### **Collated**

Specifies whether to sort the PDF job.

### **Print Mode**

Specifies the output layout.

- **Standard**  
For documents with normal sized characters.
- **High Speed**



Prints with the higher speed than the Normal mode, but the quality is less.

- **High Quality**

For documents with small characters or thin lines, or documents printed using a dot-matrix printer.

## Layout

Specifies the output layout.

- **Auto Reduce/Enlarge**

Prints the document in the layout specified by the printer.

- **Booklet Creation**

Prints on both sides of a sheet of paper bound by the edge.

- **2 Pages per Sheet**

Prints two pages on one side of a sheet of paper.

- **4 Pages per Sheet**

Prints four pages on one side of a sheet of paper.

- **100%**

Prints in the same size as the document.

## Password

Specifies the password to print a PDF file secured with a password to open the PDF file.

## TIFF/JPEG Settings

Use the **TIFF/JPEG** menu to change printer settings that only affect the TIFF/JPEG jobs.

### *Paper Size*

Specifies the paper size.

## Logs

### **Audit Log**

Allows you to enable the **Audit Log** feature which logs the operations on the printer, and retrieve the audit log.

### **Device Log**

The **Device Log** feature always logs the debug log and report information.

## Software Update

You can update the software of the printer when an update is available.

Users with the system administrator permissions can update the software by specifying an update file on the computer.

## Plug-in Settings

You can register, view, and enable plug-ins to be used for custom services.

### Platform Version

Displays the platform version.

### Authentication on Registration

Select this to perform authentication when registering or updating a plug-in.

### Plug-in Feature

Set whether to enable embedded plug-ins.

### Plug-ins

Displays a list of plug-ins. Select a plugin, and then change the status.

To Add a plug-in, click **Add**.

## Measurements

### Units

Allows you to select a unit of measurement displayed on the screen from **Millimeters** or **Inches**.

### Paper Size Preference

Allows you to select the unit of default paper size to be used for printer settings.

To use the A4 size paper for the following printer settings by default and to set the **Units** setting to **Millimeters**, select **Metric**.

To use the Letter size paper for the following printer settings by default and to set the **Units** setting to **Inches**, select **Inch**.

- Default paper size for printing
- Default custom paper sizes displayed on the screen for each paper tray
- Default paper size of each paper tray and the bypass tray

# Print Media Guidelines

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Print media refers to paper, labels, envelopes, and coated paper among others. Your printer provides high-quality printing on a variety of print media. Selecting the appropriate print media for your printer helps avoid printing troubles. This section describes selecting and caring for print media.


 **NOTE:**

- Use only laser print media. Do not use ink jet paper in your printer.

## Supported Print Media

### Bypass Tray

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Paper Size	A6 <sup>*1</sup> A5 A4 JIS B6 <sup>*1</sup> JIS B5 5.5 x 8.5 <sup>*1</sup> 7.25 x 10.5" 8.5 x 11" 8.5 x 13" 8.5 x 14" 4 x 6 <sup>**1</sup> No. 10 Env. <sup>*1</sup> Monarch Env. <sup>*1</sup> DL Env. <sup>*1</sup> C5 Env. <sup>*1</sup> Custom <sup>*1*2*3</sup>
	 <b>NOTE:</b> <ul style="list-style-type: none"><li>• XML Paper Specification (XPS) driver does not support custom size paper.</li></ul>
Paper Type	Bond Plain Recycled Hole Punched Letterhead Pre-Printed Lightweight Cardstock Cardstock <sup>*1</sup> Envelope <sup>*1</sup> Light Glossy Cardstock Glossy Cardstock Labels <sup>*1</sup>
Loading Capacity	150 sheets of the standard paper


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\*1: Paper sizes and types that are not supported by the duplex printing feature

\*2: Width: 76.2 mm (3 inches) to 215.9 mm (8.5 inches), Length: 127 mm (5 inches) to 355.6 mm (14 inches).

\*3: Custom paper smaller than 148.5 mm (5.8 inches) in width and 210 mm (8.3 inches) in length is not supported by the duplex printing feature.

## Tray 1 and Optional 550-Sheet Feeder

Paper Size	A5
	A4
	JIS B5
	7.25 × 10.5"
	8.5 × 11"
	8.5 × 13"
	8.5 × 14"
	Custom* <sup>1</sup>
	 <b>NOTE:</b>
	<ul style="list-style-type: none"><li>XML Paper Specification (XPS) driver does not support custom size paper.</li></ul>
Paper Type	Bond
	Plain
	Recycled
	Hole Punched
	Letterhead
	Pre-Printed
	Lightweight Cardstock
	Cardstock* <sup>2</sup>
	Light Glossy Cardstock
Glossy Cardstock* <sup>2</sup>	
Loading Capacity	550 sheets of the standard paper

\*1: Width: 148.5 mm (5.8 inches) to 215.9 mm (8.5 inches), Length: 210 mm (8.3 inches) to 355.6 mm (14 inches)

\*2: Paper sizes and types that are not supported by the duplex printing feature

## Supported Paper Weight

Paper type	Weight (g/m <sup>2</sup> )
Bond	81-105
Plain	60-90
Recycled	60-90
Hole Punched	60-90
Letterhead	81-105
Pre-Printed	60-90
Lightweight Cardstock	106-163
Cardstock	164-216
Envelope	-
Light Glossy Cardstock	106-163
Glossy Cardstock	164-216
Labels	-

## Unacceptable Print Media

- Chemically treated paper used to make copies without carbon paper, also known as carbonless paper, carbonless copy paper (CCP), or no carbon required (NCR) paper.
- Preprinted paper with chemicals that may contaminate the printer.
- Preprinted paper that can be affected by the temperature in the fusing unit.
- Preprinted paper that requires a registration (the precise print location on the page) greater than  $\pm 0.09$  inches, such as optical character recognition (OCR) forms.  
In some cases, you can adjust registration with your software program to successfully print on these forms.
- Coated paper (erasable bond), synthetic paper, and thermal paper.
- Rough-edged, rough or heavily textured surface paper, or curled paper.
- Recycled paper containing more than 25 % post-consumer waste that does not meet DIN 19 309.
- Multiple-part forms or documents.
- Print quality may deteriorate (blank spaces or blotches may appear in the text) when printing on talc or acid paper.

## Recommended Print Media

- For the best print quality and feed reliability, use 75 g/m<sup>2</sup> (20 lb) xerographic paper.
- Business paper designed for general business use also provides acceptable print quality. Only use paper able to withstand high temperatures without discoloring, bleeding, or releasing hazardous emissions. The laser printing process heats paper to high temperatures. Check with the manufacturer or vendor to determine whether the paper you have chosen is acceptable for laser printers.

## Recommended Pre-Printed Media and Letterheads

- Use grain long paper for best results.
- Use only forms and letterheads printed using an offset lithographic or engraved printing process.
- Select paper that absorb ink, but does not bleed.
- Avoid paper with rough or heavily textured surfaces.
- Use paper printed with heat-resistant inks designed for use in xerographic copying machines. The ink must withstand temperatures of 225 °C (437 °F) without melting or releasing hazardous emissions.
- Use inks that are not affected by the resin in the toner or the silicone in the fusing unit. Inks that are oxidation-set or oil-based should meet these requirements; latex inks might not. If you are in doubt, contact your paper supplier.

## Recommended Pre-Punched Print Media

- Paper should be punched at the paper manufacturer and not drilled into paper already packaged in a ream. Drilled paper can cause jams when multiple sheets feed through the printer.
- Pre-punched paper can include more paper dust than standard paper. Your printer may require more frequent cleaning and feed reliability may not be as good as standard paper.

- Weight guidelines for pre-punched paper are the same as non-punched paper.

## Recommended Envelopes

Depending on the envelopes, it is possible to expect variable levels of wrinkling.

- Use only high-quality envelopes that are designed for use in laser printers.
- Set the print media source to the bypass tray. Set the paper type to **Envelope**, and select the correct size of envelope from the printer driver.
- Use envelopes made from 75 g/m<sup>2</sup> (20 lb bond) paper. You can use up to 105 g/m<sup>2</sup> (28 lb bond) weight for the envelope feeder as long as the cotton content is 25 % or less. Envelopes with 100 % cotton content must not exceed 90 g/m<sup>2</sup> (24 lb bond) weight.
- Use only freshly unpackaged, undamaged envelopes.
- Use envelopes that can withstand temperatures of 205 °C (401 °F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
- Use one envelope size during a print job.
- Ensure that the humidity is low because high humidity (more than 60 %) and the high printing temperatures may seal the envelopes.
- For best performance, do not use envelopes that:
  - Have excessive curl or twist
  - Are stuck together or damaged in any way
  - Contain windows, holes, perforations, cutouts, or embossing
  - Use metal clasps, string ties, or metal folding bars
  - Have an interlocking design
  - Have postage stamps attached
  - Have any exposed adhesive when the flap is in the sealed or closed position
  - Have nicked edges or bent corners
  - Have rough, cockle, or laid finishes

## Recommended Labels

- Label adhesives, face sheet (printable stock), and topcoats must be able to withstand temperatures of 205 °C (401 °F) and pressure of 173 kPa (25 psi).
- Use labels that can be without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
- Do not use label sheets with a slick backing material.

When printing on labels:

- Use labels that can withstand temperatures of 205 °C (401 °F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
- Set the paper type to **Label** in the printer driver.
- Load labels in the bypass tray.
- Do not load labels together with paper in the bypass tray.
- Do not print within 1 mm (0.04 inches) of the die-cut.
- Do not print within 1 mm (0.04 inches) of the edge of the label, of the perforations, or between die-cuts of the label.
- Do not print a label through the printer more than once.

- Portrait orientation is preferred, especially when printing bar codes.
- Do not use labels that have exposed adhesive.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam.
- Do not use label sheets that have adhesive to the edge of the sheet. It is recommended that zone coating of the adhesive is done at least 1 mm (0.04 inches) away from edges. Adhesive material contaminates your printer and could void your warranty.



**WARNING:**

- **Otherwise a jam occurs in the printer and contaminate your printer and your cartridge with adhesive. As a result, could void your printer and cartridge warranties.**

## Print Media Storage Guidelines

For proper print media storage, the following guidelines will help to avoid media feeding problems and uneven print quality.

- Store print media in an environment where the temperature is approximately 21 °C (70 °F) and the relative humidity is 40 %.
- Store cartons of print media on a pallet or shelf, rather than directly on the floor.
- If you store individual packages of print media out of the original carton, ensure that they rest on a flat surface so that the edges do not buckle or curl.
- Do not place anything on top of the print media packages.

# Loading Print Media

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Loading print media properly helps prevent jams and ensures trouble-free printing. Before loading any print media, identify the recommended print side of the print media. This information is usually indicated on the print media package.

## Before Loading

The following instructions describe how to avoid paper jams:

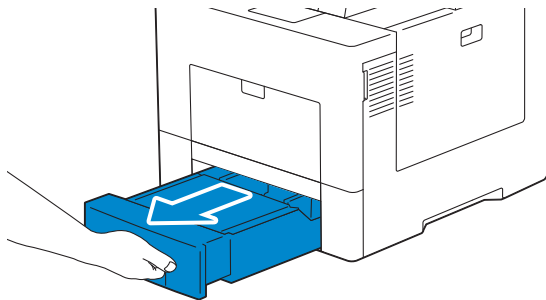
- Use only laser print media. Do not use ink jet paper in the printer.
- Use only recommended print media.
- Keep print media stored in an acceptable environment.
- Do not overload the print media sources. Make sure that the print media stack height does not exceed the maximum height indicated by the load-line labels in the tray.
- Do not load wrinkled, creased, damp, or curled print media.
- Flex, fan, and straighten the print media before loading.
- Do not use print media that you have cut or trimmed.
- Do not mix different print media sizes, weights, or types in the same print media source.
- Make sure that the recommended print side is facing up when you load the print media.
- Do not remove the feeding tray during printing.
- Make sure that all cables that connect to the printer are attached correctly.
- Overtightening the guides may cause jams.
- If jams caused by misfeeding paper occur frequently, wipe the retard rollers in the tray with a cloth moistened with water.
- Do not perform a printing operation with the bypass tray removed.

## Loading Print Media in Tray 1 and the Optional 550-Sheet Feeder

### NOTE:

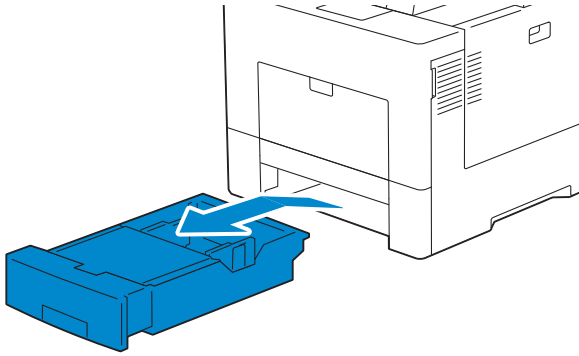
- To avoid paper jams, do not remove the tray while printing is in progress.

- 1 Pull the tray halfway out of the printer.

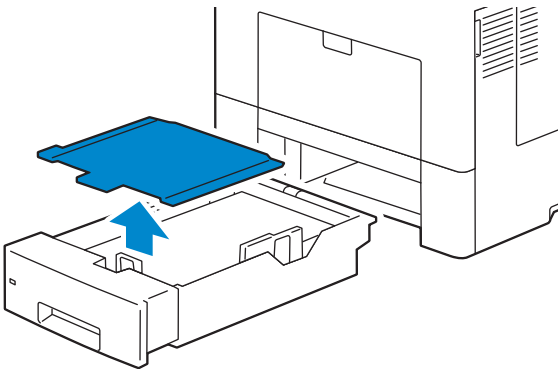




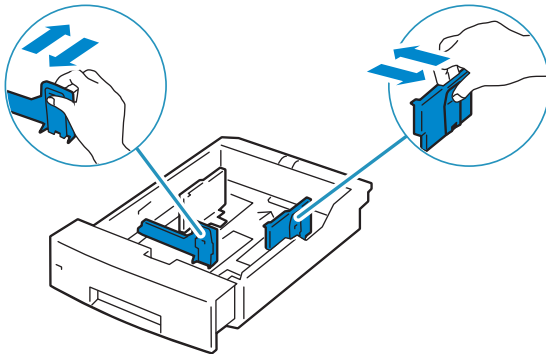
**2** Hold the tray with both hands, and remove it from the printer.



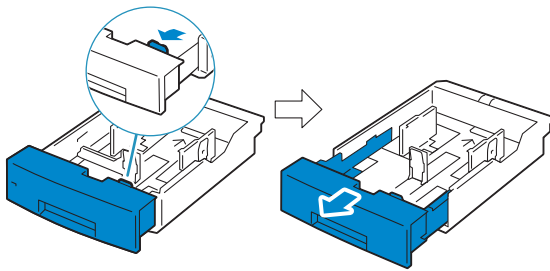
**3** Remove the security cover if installed.



**4** Adjust the paper guides.



- 5 When you load Legal-size paper, extend the tray while pushing the lever located on the front part of the tray.



- 6 Before loading the print media, flex the sheets and fan them. Straighten the edges of the stack on a level surface.

- 7 Load the print media into the tray with the recommended print side facing up.

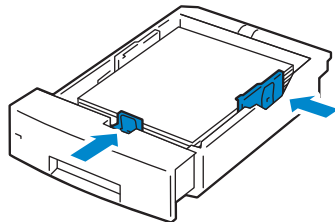
 **NOTE:**

- Do not exceed the maximum fill line in the tray. Overfilling the tray may cause paper jams.
- When loading coated paper, load one sheet at a time.

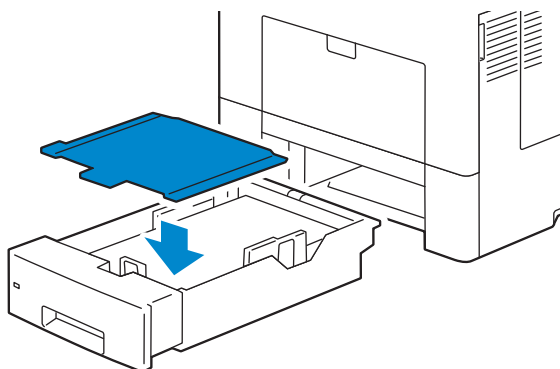
- 8 Align the width guides against the edges of the paper.

 **NOTE:**

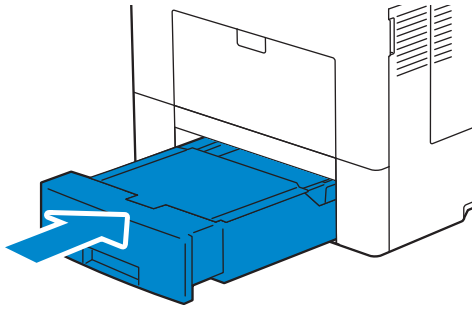
- Overtightening the guides may cause jams.
- When loading user-specified print media, adjust the width guides and slide the extendable part of the tray by pinching the length guide and sliding it until it rests lightly against the edge of the paper.



- 9 Reinstall the security cover as necessary.

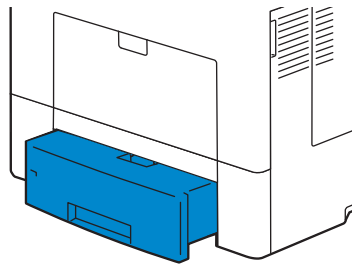


**10** Insert the tray into the printer and push until it stops.



**NOTE:**

- If the front side of the tray is extended, the tray protrudes when it is inserted into the printer.



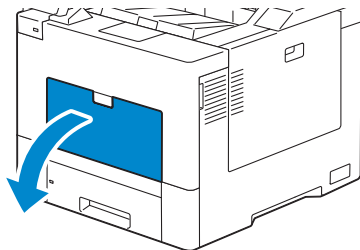
**11** Set the paper size and paper type on the touch panel.

## Loading Print Media in the Bypass Tray

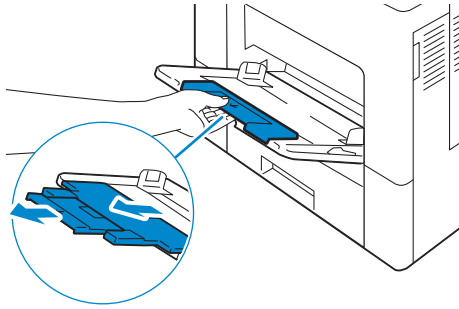
**NOTE:**

- Do not add or remove print media when there is still print media in the bypass tray or when the printer is printing from the bypass tray. This may result in a paper jam.
- Do not place objects on the bypass tray.
- Do not apply excessive force on the bypass tray or press it down.
- If a jam occurs with print media, feed one sheet at a time through the bypass tray.
- The label on the bypass tray shows how to load the bypass tray with paper, and how to turn an envelope for printing.

**1** Gently pull and open the bypass cover.



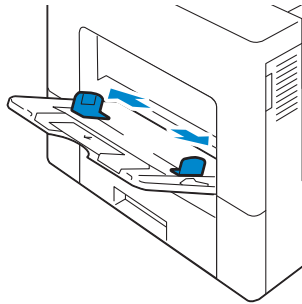
2 Extend the extension tray as necessary.



3 Slide the width guides to the edge of the tray. The width guides should be fully extended.

 **NOTE:**

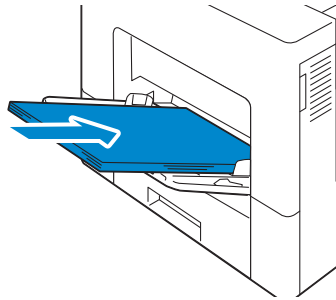
- Do not force the print media into the tray.
- When loading coated paper, load one sheet at a time.



4 Insert all media face up and top edge first into the bypass tray.

 **NOTE:**

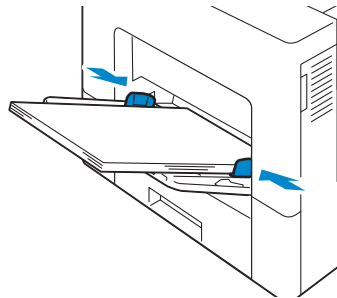
- Do not force the print media into the tray.
- When loading coated paper, load one sheet at a time.



- Slide both width guides until they rest lightly against the edge of the print media stack.

 **NOTE:**

- Overtightening the guides may cause jams.



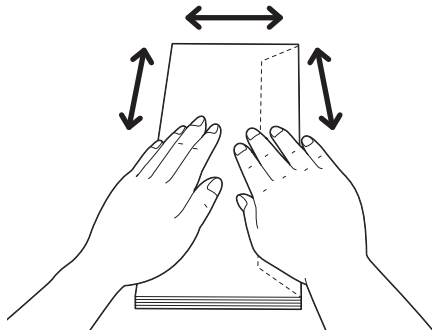
- Set the paper size and paper type on the touch panel.

## Loading Envelopes in the Bypass Tray

The following guidelines describe how to load envelopes.

- Use only recommended envelopes.
- Use only freshly unpackaged and undamaged envelopes

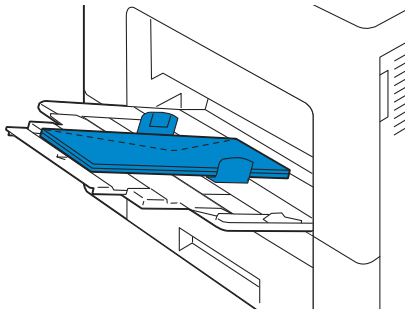
If you do not load envelopes in the bypass tray right after they have been removed from the package, they may bulge. To avoid jams, press firmly across the whole envelopes to flatten them as shown in the illustration before loading the envelopes in the bypass tray.



- Use only same size envelopes for a single print job.
- The maximum height of envelopes that can be loaded in the bypass tray is approximately 15 mm.
- When printing on envelopes, set the print media source to the bypass tray. From the print driver, select **Envelope** for the paper type, and then select the correct size of the envelope.
- Adjust the width guides accordingly after envelopes are loaded.

## Envelope #10, Monarch, DL

Load the envelopes with the flaps closed and the print side facing up. Make sure that the flaps are on the left side when you face towards the printer.

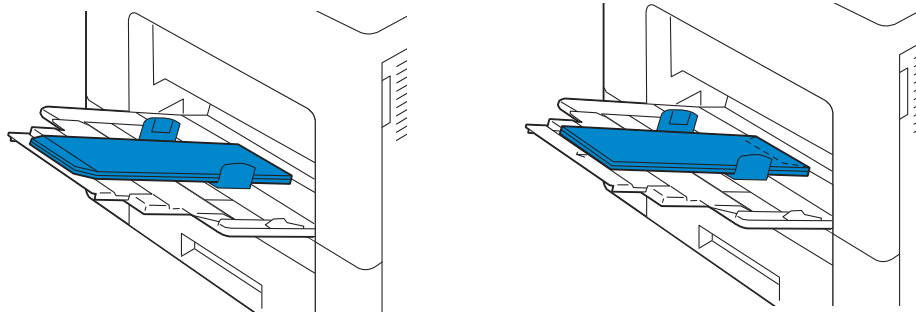


## C5

Load the envelopes in the short edge feed orientation with the flaps open or closed and the print side up. Ensure that the flaps come at the bottom with the flaps open or at the top with the flaps closed when you face towards the printer.

### NOTE:

- When you print with the flaps open, position of the envelopes may be distorted on the output tray. In this case, close the flaps when you load the envelopes.



## Linking Trays

The printer links the Tray 1 and the optional 550-sheet feeder when you load the same size and type of print media in them. The first tray is utilized until the print media runs out after which the next tray is used.

### NOTE:

- The print media should be the same size and type in each tray.
- The bypass tray cannot be linked to any of the tray sources.

After loading the selected trays with the same size and type of print media, specify the paper type for the trays under **Trays** in the **Dell Printer Configuration Web Tool**.

To disable tray linking, change the paper type for one of the trays to a unique value.

### NOTE:

- If different types of print media of the same size are loaded in the trays, the printer links them if the paper type is not specified in the print driver properties/preferences.

# Printing

# Printing

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This chapter covers tips for printing, how to print certain information from your printer, and how to cancel a job.

## NOTE:

- For information on printing with the SharePoint Connector, see "SharePoint Connector".

## Tips for Successful Printing

### Tips on Storing Print Media

Store your print media properly. For more information, see "Storing Print Media".

### Avoiding Paper Jams

#### CAUTION:

- **Before buying large quantities of any print media, it is recommended that you try a sample first.**

By selecting appropriate print media and loading it properly, you can avoid paper jams.

See the following instructions on "Loading Print Media":

- "Before Loading"
- "Loading Print Media in Tray 1 and the Optional 550-Sheet Feeder"
- "Loading Print Media in the Bypass Tray"

If you encounter a paper jam, see "Clearing Jams".

## Sending a Job to Print

Install the printer driver to use all the features of the printer. When you choose **Print** from an application, a window representing the printer driver opens. Select the appropriate settings for the specific job that you are sending to print. Print settings selected from the driver override the default menu settings selected from the operator panel.

You may need to click **Preferences** from the initial **Print** box to see all of the available system settings. If you are not familiar with a feature in the printer driver window, open the online Help for more information.

To print a file from a typical Microsoft® Windows® application:

- 1 Open the file you want to print.
- 2 From the **File** menu, select **Print**.
- 3 Verify that the correct printer is selected in the dialog box. Change the print settings if needed.
- 4 Click **Preferences** to adjust system settings that are not available from the first screen, and then click **OK**.
- 5 Click **OK** or **Print** to send the job to the selected printer.


## Canceling a Print Job

You can cancel a job using the operator panel or a computer.



## Canceling a Job From the Operator Panel

To cancel a job before it has started printing:

- 1 Press the  button.
- 2 Select `Jobs`.
- 3 Select the job to be deleted.
- 4 Select `Delete`.

## Canceling a Job From a Computer

### Canceling a Job From the Taskbar (Windows® Only)

When you send a job to print, a small printer icon appears in the bottom right corner of the taskbar.

- 1 Double-click the printer icon.  
A list of print jobs appears in the printer window.
- 2 Select the job you want to cancel.
- 3 Press the <Delete> key.

### Canceling a Job From the Dock (OS X Only)

When you send a job to print, the printer icon appears in the Dock.

The following procedure uses OS X 10.10 as an example.

- 1 Click the printer icon.  
A list of print jobs appears in the printer window.
- 2 Click the delete job button on the left.

## Duplex Printing

Duplex printing allows you to print on both sides of a sheet of paper.

### Duplex Printing With Duplex Unit

#### For Windows®:

The following procedure uses a typical Windows® program on Windows® 7/Windows® 10 as an example.

- 1 Open the file you want to print.
- 2 Open the print dialog box from the program.
- 3 Select the print driver, and then click **Preferences** → **General**.
- 4 In the Paper Source drop-down list box, select a paper tray.

5 In the **Duplex** drop-down list box, select **Flip on Short Edge** or **Flip on Long Edge**.

 **NOTE:**

- For details on the **Flip on Short Edge** and **Flip on Long Edge** options, see "Flip on Short Edge" and "Flip on Long Edge."

6 Click **OK**.

7 Click **Print**.

### For OS X:

The following procedure uses TextEdit on OS X 10.10 as an example.

1 Open the file you want to print.

2 From the **File** menu, select **Print**.

3 Make sure that the **Two-Sided** check box is selected in the dialog box.

4 In the print options pop-up menu, select **Layout**.

5 In the **Two-Sided** drop-down list box, select **Long-Edge binding** or **Short-Edge binding**.

6 Click **Print**.

## Using Booklet Print

To use the booklet print feature, select the **Enable** check box of the **Booklet Printing** in the **Layout** tab.

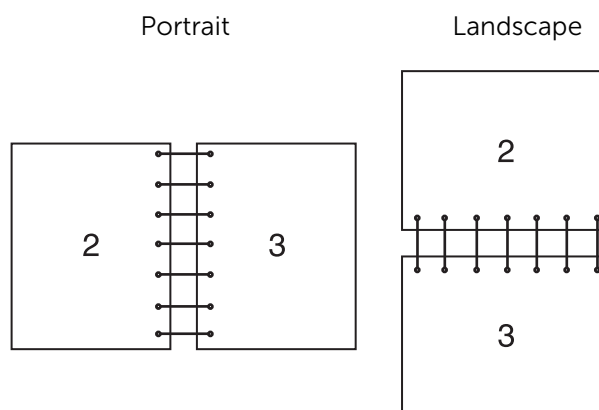
 **NOTE:**

- When the XML Paper Specification (XPS) or PS driver is used, booklet print is not available.
- You must select **Flip on Long Edge** in the **Duplex** when using the Booklet Print feature.

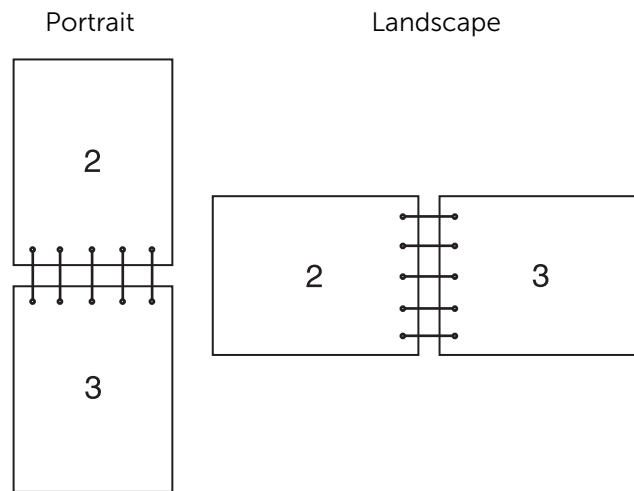
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Flip on Long Edge

Assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). The following illustration shows long-edge binding for portrait and landscape pages:



Assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation). The following illustration shows short-edge binding for portrait and landscape pages:



## Using Stored Print

When you send a job to the printer, you can specify in the printer driver to store the job in the memory. When you are ready to print the job, go to the printer and use the operator panel to identify which job in the memory you want to print.

### NOTE:

- The data in the memory is cleared when the printer is turned off.
- The storage capacity for all stored jobs is 400MB.
- The maximum number of stored print jobs is 200 per user ID.
- The print job will be aborted and a notification will be displayed if either the maximum storage capacity or the maximum number of stored jobs is reached.

## Overview

You can specify the following job types in the printer driver.

### Secure Print

You can temporarily store print jobs secured with a password in the memory. Users with the password can print them from the operator panel. This feature can be used to print confidential documents. A stored print job will be deleted after you print it or at a designated time.

### Sample Set

The collated print job is stored in the memory, but a single page is printed automatically so you can check the print result. If you do not have problems with the print result, you can choose to print more copies. This prevents large number of misprinted copies from being printed at one time.

## Using Secure Print and Sample Set

To use **Secure Print** and **Sample Set** feature, you need to select **Secure Print** or **Sample Set** from **Job Type** in the **General** tab of the print driver. The job will be stored in the

memory until you request to print it from the operator panel.


 **NOTE:**

- You must specify a passcode for the **Secure Print** job.
- For details about a printer driver feature, see the help of the printer driver.

## Procedures for Printing Stored Jobs

 **NOTE:**

- The stored print feature is available when using the PCL or PS driver.


- 1 Press the  button.
- 2 Select **Jobs**.
- 3 Select a job to print.

## Printing Secure Print Jobs From Operator Panel

This section describes how to print **Secure Print** jobs.

### *In case of you are logged in except Simple authentication*

If authentication is enabled and the user ID on the secure print jobs matches the login user ID on the device, you can access the secure print jobs without entering the passcode specified at the printer driver.


- 1 Press the  button.
- 2 Select **Jobs**.
- 3 Select **Secure Jobs** button.
- 4 Your secure print jobs are displayed. Select a job to print.

 **NOTE:**

- If you want to print all jobs, select **Print All**. If you want to delete all jobs, select **Delete All**.

### *In case of you are not logged in*

If authentication is not enabled or you are logged in using Simple authentication, use following procedure.


- 1 Press the  button.
- 2 Select **Jobs**.
- 3 Select **Secure Jobs** button.
- 4 Secure print user's folders are displayed. Select your folder.
- 5 Enter the passcode that you specified printer driver and select the **OK** button.
- 6 Your secure print jobs are displayed. Select a job to print.

 **NOTE:**

- If you want to print all jobs, select **Print All**. If you want to delete all jobs, select **Delete All**.

## Deleting a Print Job

To delete printing a job, use the following procedure.

- 1 Press the  button.
- 2 Select `Jobs`.
- 3 Select the job to be deleted.
- 4 Select `Delete`.

**NOTE:**

- **Secure Print** job will be deleted after printing.
- Existing jobs will be deleted at a time designated in the **Dell Printer Configuration Web Tool**. For details, see "Stored Print Job Settings".

## Print From USB

The `Print from USB` feature allows you to print files stored in a USB flash drive without using a computer.

Files in the following file formats can be printed directly from a USB flash drive:

- PDF
- TIFF
- JPEG
- XPS
- EXIF2.0-2.2

**CAUTION:**

- **To prevent damage to the printer, do not connect any device other than a USB flash drive to the front USB port of the printer.**
- **Do not remove the USB flash drive from the front USB port until the printer has finished printing.**

**NOTE:**

- XPS stands for XML Paper Specification.

## Printing Procedure

- 1 Insert the USB memory device into the USB memory slot.
- 2 Select desired file.
- 3 Select `OK`.
- 4 Select `Print`.

# Printing With Wi-Fi Direct

This section provides information for Wi-Fi Direct printing. Wi-Fi Direct allows your Wi-Fi mobile devices such as computers, smart phone, and tablets, to connect to the printer directly via a Wi-Fi network. With Wi-Fi Direct, you can print documents, photos, or e-mail on your Wi-Fi mobile devices directly without a wireless access point.

 **NOTE:**

- Wi-Fi Direct is available even if the printer is connected to your wireless network connection.
- Only printing function is available via the Wi-Fi Direct network.
- The maximum number of devices that can be connected via the Wi-Fi Direct network is 3.
- You cannot connect your mobile device to the Internet via the printer's Wi-Fi Direct network.
- Depending on the device, the channel used to connect the device to the printer via Wi-Fi Direct may differ from the channel used by the printer to connect to a network via Wi-Fi infrastructure mode. In such a case, simultaneous connection with Wi-Fi Direct and Wi-Fi infrastructure mode may not work properly.
- The printer connected with Wi-Fi Direct supports the following protocols; LPD, Port9100, Web Services on Devices (WSD) (print), Bonjour (mDNS), SNMPv1/v2c, Dell Printer Configuration Web Tool.

## Setting Up Wi-Fi Direct

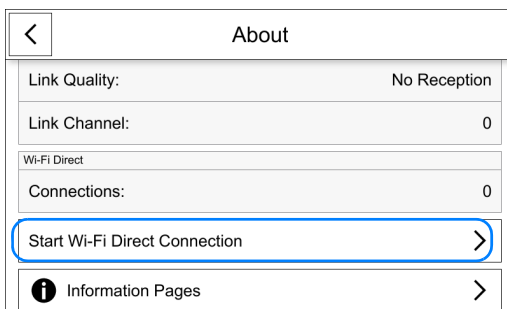
To use Wi-Fi Direct, you need to first set up the Wi-Fi Direct settings from the operator panel of the printer. To connect the mobile device to the printer via Wi-Fi Direct, select the SSID of the printer from the list of wireless networks on the mobile device and enter the passphrase necessary for connection.

## Setting Up the Printer

- 1 Tap *Device*.
- 2 Tap *Connectivity*.
- 3 Tap *Wi-Fi Direct*.
- 4 In the *Wi-Fi Direct* menu, sets *Wi-Fi Direct* to *On*.
- 5 Tap *Setup*.
- 6 Tap *Group Role*, and then select the desired mode.

 **NOTE:**

- For the *Auto* mode, the passcode is automatically created so the *SSID Suffix* and *Passcode* fields are ignored. For the *Group owner* mode, the password is what must be entered on the client device.
- If *Auto* mode is selected, you need to complete the Wi-Fi Direct setup via the operator panel. Tap *Device*, then select *About*. Scroll down and select *Start Wi-Fi Direct Connection*, then select *Yes* to allow pairing with the device.



- 7 The printer must be rebooted after you set `Wi-Fi Direct`.
- 8 If `Group owner` mode is selected, tap `Device`, and then select `About` to check what the SSID Prefix and Passcode are.

## Connecting the Mobile Device

- 1 Connect the mobile device to the Wi-Fi Direct network.  
The following procedure uses Windows® 7, Windows® 10, OS X 10.11, iOS, and Android as examples.

For Windows® 7:

- a Click the network icon on the taskbar.
- b Click the printer's SSID, and then click **Connect**.
- c Enter the passphrase, and then click **OK**.
- d Click **Cancel**, and then exit the **Set Network Location** window.

For Windows® 10:

- a Click the **Start** button, and then click **Settings**.
- b Click the Wi-Fi icon.
- c Click the printer's SSID, and then click **Connect**.
- d Enter the passphrase, and then click **OK**.

For OS X 10.11:

- a Click the network icon on the Menu Bar.
- b Click the printer's SSID.
- c Enter the passphrase, and then click **Join**.

For iOS:

- a Tap **Settings** → **Wi-Fi**.
- b Tap the printer's SSID.
- c Enter the passphrase, and then tap **Join**.

For Android:

The procedure varies depending on your mobile device you are using. Refer to the manual provided with your mobile device.

- 2 Install the printer on the mobile device.  
Before printing, you are required to install the print driver accordingly.

For Windows® 7, Windows® 10:

You need to install the printer driver on the mobile device. See "Installing Printer Drivers on Windows® Computers".

For OS X 10.11:

You need to install the printer driver on the mobile device. See "Installing Printer Drivers on Macintosh Computers".

For iOS:

You need to install the printing program from App Store, and then the printer is ready for use.

For Android:

You need to install the printing program from Google Play™, and then the printer is ready for use.

The printing procedure varies depending on your mobile device you are using. Refer to the manual supplied with your mobile device to print as you normally do from the mobile device.

## Printing via Wi-Fi Direct

The printing procedure varies depending on your mobile device you are using. Refer to the manual provided with your mobile device to print as you normally do from the device.

## Disconnecting Wi-Fi Direct Network

- 1 Tap *Device*.
- 2 Tap *Connectivity*.
- 3 Turn off *Wi-Fi Direct*.

## Mobile Printing

The printer supports printing from a variety of mobile devices.

## AirPrint



AirPrint allows you to print through a network with the device running iOS or OS X.

Be sure to install the latest version of iOS for iOS device. For OS X, be sure to update OS X and the apps you have purchased from the App Store using the Software Update.

## Setting Up AirPrint on Your Printer


- 1 Make sure that the printer is connected to the network.
- 2 Start **Dell Printer Configuration Web Tool**. For more information, see "Starting the Dell Printer Configuration Web Tool".
- 3 Click **Connections** → **Mobile Printing** → **AirPrint™**.
- 4 Click the toggle to on.



- 5 Click **OK**, and then restart the printer.

## Printing via AirPrint

The following procedure uses the iPhone running iOS 8.1 as an example.

- 1 Open your email, photo, web page, or document you want to print.
- 2 Tap the action icon .
- 3 Tap **Print**.
- 4 Select your printer and set printer options.
- 5 Tap **Print**.

## Google Cloud Print™

By registering the printer to your Google™ account, you can use the Google Cloud Print™ service to print from the Google Chrome™ browser without installing the printer drivers to your device. You can also share the printer with the specified users over the Internet.

The printer supports the following versions of the Google Cloud Print™ service:

- Google Cloud Print™ version 1.1
- Google Cloud Print™ version 2.0

### **NOTE:**

- Use the latest version of the Google Chrome™ browser for Google Cloud Print™.

## Preparing to Use the Printer with Google Cloud Print™

To use **Google Cloud Print™**, you need the following preparations in advance:

- "Enabling Google Cloud Print™ on the Printer"
- "Selecting the Version of the Google Cloud Print™"
- "Registering the Printer to the Google Cloud Print™"
- "Sharing the Printer Using the Google Cloud Print™ Service"

### **NOTE:**

- To register the printer to the **Google Cloud Print™** service, the printer needs to be connected to the Internet.
- **Google Cloud Print™** supports only IPv4 connection.
- If the printer is connected to a network that uses a proxy server, you need to specify the settings in **Proxy Server** from the **Dell Printer Configuration Web Tool**. For more information, see "Proxy Server".
- Acquire a Google™ account and a Gmail™ address in advance.

## Enabling Google Cloud Print™ on the Printer

- 1 Launch the **Dell Printer Configuration Web Tool** by entering IP address of the printer in your web browser. For more information, see "Setting Up the Dell Printer Configuration Web Tool" and "Starting the Dell Printer Configuration Web Tool".
- 2 Click **Connections** → **Mobile Printing** → **Google Cloud Print™**.
- 3 Check the box to enable.
- 4 Click **OK**, and then restart the printer.

## Selecting the Version of the Google Cloud Print™

Select the version of the Google Cloud Print™ from either version 1.1 or version 2.0. Google Cloud Print™ version 1.1 sends the print data to the printer via Internet. For this version, the printer needs to be connected to the Internet.



Google Cloud Print™ version 2.0 sends the print data to the printer either via Internet or via local network. This version is recommended for the environment where the Internet connection cannot be used.



### NOTE:

- Available options for printing may vary according to your device or the version of the Google Cloud Print™ service.
- You cannot use both version 1.1 and version 2.0 of the Google Cloud Print™ service on a printer.

## Registering the Printer to the Google Cloud Print™


Before registering the printer to the Google Cloud Print™, prepare the Google™ account to which the printer is registered.

### NOTE:




- To register the printer to the **Google Cloud Print™**, the printer needs to be connected to the Internet.
- The Google™ account which is used in the registration procedure will be registered as the owner.

### For Google Cloud Print™ Version 1.1

- 1 Start **Dell Printer Configuration Web Tool**.  
See "Starting the Dell Printer Configuration Web Tool".
- 2 Click **Connectivity** → **Mobile Printing** → **Google Cloud Print™** → **Printer Registration**.


- 3 Select the interface → Click **Register**.
- 4 Select **Continue** to proceed to register your printer. Instructions for printer registration will be printed.
- 5 Enter the web address on the registration paper to the address box of the browser, and press the <Enter> key.
  -  **NOTE:**
    - You can also access the registration web page with a smartphone, reading the QR code on the registration paper with its camera.
- 6 Enter the Google™ account and passcode of the user using this feature, and log in.
- 7 On the Google Cloud Print™ registration web site, click **Finish printer registration**.
- 8 Click **Manage your printers**. Your printer will be listed in the **Printers** list and will be ready for use with the Google Cloud Print™ service.

### For Google Cloud Print™ Version 2.0

- 1 Launch the Google Chrome™ browser. When you are using the Google™ Chromebook, start and log in to the Chromebook.
- 2 Click  in the top right corner, and select **Settings**.
- 3 Click **Show advanced settings** in the bottom of the page.
- 4 Click **Manage** under the **Google Cloud Print** menu.
  -  **NOTE:**
    - If a message is displayed under **New Devices** to request you to sign in to Chrome, click **sign in** and sign in to Chrome.
- 5 Click **Register** for the printer you want to register.
- 6 When the window to confirm the registration appears, click **Register**.  
The window appears to show that the printer is being added.
- 7 On the machine's control panel, select Device → Connectivity → Google Cloud Print Registration.
- 8 On the next screen, click Register.
- 9 When the printer name appears in the **My devices** list, the registration is completed.
  -  **NOTE:**
    - It may take about 5 minutes or more until the printer name appears in the **My devices** list.

### Sharing the Printer Using the Google Cloud Print™ Service

You can share the printer registered for the Google Cloud Print™ service with other users.

- 1 Launch the Google Chrome™ browser. When you are using the Google™ Chromebook, start and log in to the Chromebook.
- 2 Click  in the top right corner, and select **Settings**.
- 3 Click **Show advanced settings** in the bottom of the page.

4 Click **Manage** under the **Google Cloud Print** menu.

 **NOTE:**

- If a message is displayed to request you to sign in to Chrome, click **sign in** and sign in to Chrome.

5 Click **Manage** for the printer you want to share.

6 In the **Google Cloud Print** window, click **Share**.

7 In the window to specify the printer sharing, enter the Google™ accounts of the users you want to invite to share the printer, and click **Share**.

 **NOTE:**

- When the invited users log in to the Google Cloud Print™ web page, a message appears to show that the printer owner made the sharing settings. Accept the sharing invitation.

## Canceling Registration to Google Cloud Print™

1 Start **Dell Printer Configuration Web Tool**.

See "Starting the Dell Printer Configuration Web Tool".

2 Click **Connectivity** → **Mobile Printing** → **Google Cloud Print™** → **Printer Registration**, and click **Unregister**.

3 Confirm that the message **Unregistered** appears.

## Printing via Google Cloud Print™

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

### Printing From an Application on a Mobile Device

The following procedure uses the Google Drive™ application on an Android mobile device as an example.

1 Install the Google Drive™ application on your mobile device.

 **NOTE:**

- You can download the application from Google Play™.

2 Access the Google Drive™ application from your mobile device and select the document.

3 Select **Print** from the application menu.

4 Select your printer from the list.



5 Select printer options and then tap **Print**.

### Printing From Google Chrome™

The following procedure uses the Google Chrome™ browser on the computer running a Microsoft® Windows® operating system as an example.

1 Open the Google Chrome™ browser.

2 Open the web page or e-mail that you want to print.


- 3 Click  or  (varies depending on the version of the Google Chrome™ browser) in the top right corner and then click **Print**.
- 4 Click **Change** in the **Destination** area.
- 5 Choose your printer from the Google Cloud Print™ area.

 **NOTE:**

- When your printer is registered to Google Cloud Print™ version 2.0, you can print the document by way of the local print with the printer in your local network. In this case, select your printer in **Local Destinations**.

- 6 Click **Print**.

## Printing From Google™ Chromebook

- 1 Open the web page or e-mail that you want to print.
- 2 Click  in the top right corner and then click **Print**.
- 3 Confirm that your printer is specified in the **Destination area**. If not, click **Change** and select your printer.

 **NOTE:**

- When your printer is registered to Google Cloud Print™ version 2.0, you can print the document by way of the local print with the printer in your local network. In this case, select your printer in **Local Destinations**.

- 4 Click **Print**.

## Mopria™ Print Service

Mopria™ Print Service allows any Android phone or tablet (Android version 4.4 or later) to connect and print to Mopria-certified printers without additional set up. Firstly, download and install the Mopria™ Print Service app from Google Play™ store to your Android mobile device:

<https://play.google.com/store/apps/>.

In order to print, connect your mobile device to the same network as the printer or use the Wi-Fi Direct functionality to connect your mobile device to the printer.

 **NOTE:**

- Mopria™ Print Service might be preloaded in your mobile device. If your mobile device does not have the Mopria™ Print Service, you can easily download it from the Google Play™ store. To learn more about Mopria™ Print Service, visit <http://www.mopria.org/>.
- The new Enterprise features from Mopria™ 2.0 is not supported.

## Setting Up Mopria™ Print Service on Your Printer

- 1 Make sure that the printer is connected to the network.
- 2 Start **Dell Printer Configuration Web Tool**. See "Dell Printer Configuration Web Tool".
- 3 Click **Connections** → **Mobile Printing** → **Mopria™**.
- 4 Select **On** to enable **Mopria™**.
- 5 Click **OK**, and then restart the printer.

## Printing via Mopria™ Print Service

- 1 Open your e-mail, photo, web page, or document that you want to print.
- 2 Tap the menu, and then select **Print**.
- 3 Tap **All printers** in the menu.
- 4 Select the printer, and then set printer options.
- 5 Tap **Print**.

# Know Your Printer

# User Authentication and Accounting

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## Types of Users

The Authentication feature restricts operations according to the user type.

### System Administrator

The system administrator can register and change system settings to adapt to the environment to be used.

The system administrator uses a specific user ID called a system administrator's user ID. To login as the system administrator, enter the system administrator's user ID in the user ID entry field on the screen.

 **NOTE:**

- The default user ID for the system administrator is "admin".
- The default password for the system administrator is "admin".

### Login User

Login User is a user registered on the machine or a remote server. To use restricted features, enter the user ID and passcode on the screen.

### Unregistered User

Unregistered User is a user not registered on the machine. Unregistered User cannot use restricted services.

## Roles

Role is used to control the permissions on printer features and access to some settings. You can create and assign roles to users to give them appropriate permissions.

The following shows the types of roles.

For details on the settings, see "Roles".

### System Administrator

**System Administrator** is assigned to the system administrator account by default. The **System Administrator** role cannot be customized.

### Basic User

**Basic User** is automatically assigned to a user with no device user role assigned, and **Basic Printing User** is automatically assigned to a user with no printing user role assigned. Features other than setup and configuration are allowed by default. You can customize the basic user permissions.

### Custom

You can create roles and set custom permissions to the roles.



# Types of Authentication

The following describes the types of authentication available on the machine.

## User ID Authentication

The machine requires users to enter their user information with the touch screen of the machine.

Authentication is performed using user information registered on the machine or user information registered on a remote server.

## Simple Authentication and Local Authentication

The Simple authentication and the Local authentication use the user information registered on the machine to manage authentication.

The Local authentication requires passcodes and the Simple authentication does not.

A print job directly sent to the machine from a computer can be received on the machine after being authenticated through cross-checking process whereby the authentication information configured on the client's driver with the information registered on the machine.

### NOTE:

- For information on driver settings, refer to the help of the driver.

## Network Authentication

Authentication is performed for a remote server. User information is not registered on the machine.

The **Network** authentication uses the user information registered on a remote authentication server (LDAP, Kerberos, or SMB) to perform authentication.

### NOTE:

- When you change **Login Method**, user information registered on the machine will be deleted.
- When you register user information on a remote authentication server, use up to 32 single-byte characters for a user ID and up to 128 single-byte characters for a password. Note, however, that up to 32 single-byte characters are allowed for an SMB authentication password.

## Convenience Authentication

Authentication is performed using a card reader.

### NOTE:

- This feature requires an additional application to be developed.

## Smart Card Authentication

Authentication is performed using the smart card reader.

# Types of Account Administration

### NOTE:

- Some accounting methods may not be selected depending on the **Login Method** selected. See "Authentication and Accounting Relationship".

## ColorTrack

Account administration is performed using the user information and account information registered on the machine. Also, accounting information is counted using various counters automatically created for each user. Accounting reports are created in CSV format using **Dell Printer Configuration Web Tool**.

 **NOTE:**

- For information on downloading reports, refer to "ColorTrack".
- For information on driver settings, refer to the help of the driver.
- When setting the user information or account information for another machine, we recommend that you use the **Cloning** feature of **Dell Printer Configuration Web Tool**.

## Network Accounting

**Network Accounting** performs account administration using user information managed by a remote service.

In **Network Accounting**, the remote server collects job data stored on the machine and counts up the numbers of pages processed for each user.

 **NOTE:**

- User information managed by the remote service is sent to be registered on the machine. When the user information on the remote service is updated, the updated information must be sent from the remote service to the machine.

## Authentication and Accounting Relationship

You can individually select **Login Method** and **Accounting Method** and can combine them as described in the following table.

		Accounting Types		
		No Accounting	ColorTrack	Network
Login Types	Simple and Local	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Network	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Convenience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Smart Card	<input type="radio"/>	-	<input type="radio"/>

:Available

- :Not available

## User Authentication Operations

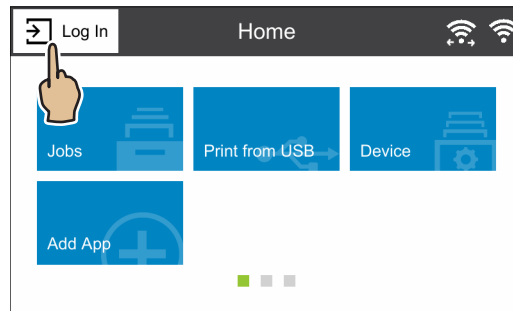
### Authenticating Login Users

This section describes how to log in to the printer using the control panel or cards, how to log in to **Dell Printer Configuration Web Tool**, and how to log out.

## Log In/Log Out from the Printer

### Log In from the Control Panel

- 1 Select Log In.



- 2 Select the user account from the list, or enter the user name.

 **NOTE:**

- Enter the user name for the Network authentication. For the Local or Simple authentication, the user identification varies depending on the settings.

- 3 Enter the passcode.

 **NOTE:**

- The Simple authentication does not require passcodes.
- When the Network authentication system is Kerberos or SMB, entering the realm or domain is required.
- When you select the service restricted, the log-in screen appears. Enter the required information to use the service.

### Log In Using a Card Reader

- 1 Touch the smart card to the smart card reader.

 **NOTE:**

- Entering a passcode may be required depending on the settings. Entering a realm or domain may also be required.

### Log Out of User Authentication

- 1 Select the user name.
  - a If the confirmation screen appears, select Log Out.
  - b If the dropdown menu appears, select Log Out of Accounting.

 **NOTE:**

- For details on the log-out confirmation method, see "Logout Confirmation".

## Log In/Log Out from the Dell Printer Configuration Web Tool

### Log In to the Dell Printer Configuration Web Tool

- 1 Select Log In.

2 Select the user account from the list, or enter the user name.

 **NOTE:**

- Enter the user name for the Network authentication. For the Local and Simple authentication, the user identification varies depending on the settings.
- When the Network authentication system is Kerberos or SMB, entering the realm or domain is required. For Kerberos, enter the user name and realm in the UPN format (<username>@<realm>). For SMB, enter the user name and domain in the NetBIOS format (<domain>\<username>).

3 Enter the passcode.

 **NOTE:**

- The Simple authentication does not require passcodes.
- When you select the service restricted, a log-in screen appears. Enter the required information to use the service.

### **Log Out of the Dell Printer Configuration Web Tool**

1 Select the user name.

2 Select **Log Out**.

## **Creating and Editing User Accounts**

### **Creating New Accounts from the Dell Printer Configuration Web Tool**

- 1 In the **User Accounts** screen or the **Log In** screen which appears when the screen requires authentication, select **Add New Account**.
- 2 Enter the user name in the **Add New Account** screen.
- 3 If the password is required for authentication, set the password.
- 4 Set the contact details in the **Contact Details** screen.

### **Editing User Accounts from the Dell Printer Configuration Web Tool**

You can edit the user accounts in the user details screen which is displayed when you select **Permissions** → desired user name under **User Accounts**.

<b>Roles</b>	You can set a device user role and printing user role to the user.
<b>Personalizations</b>	You can reset the personalized settings for the user.
<b>PC User Names</b>	You can link PC user names to accounts on the printer.
<b>Accounting</b>	Shows the number of prints made by the user. Selecting <b>Edit</b> allows you to change the limits and relate the ColorTrack general accounts to the user.

 **NOTE:**

- The items on the **Edit Accounting** screen vary depending on the **What to Track** settings.
- Up to 100 ColorTrack general accounts can be related to a user.

## Deleting User Accounts from the Dell Printer Configuration Web Tool

Select **Permissions** → desired user name under **User Accounts** → **Delete User**.

## Changing Password from the Dell Printer Configuration Web Tool

- Administrator  
Select **Permissions** → **Admin** under **User Accounts** → **User Accounts**.
- User  
Select **Permissions** → desired user name under **User Accounts** → **Delete User**.

## User Authentication for Accounting

- ColorTrack  
Selecting a tracked feature displays the `Accounting` screen\*. Enter the user ID and, if required, enter the passcode. When the account is successfully authenticated, you can use the feature.  
  
When a general account is related to the user, the `Accounting Summary` screen appears. You can change the account by setting `My User Account` and check the number of remaining or used jobs. You can also print the account report and check the account details (limits, used number and remaining number for each job).  
  
\*: This step can be skipped if the user is already logged in through remote authentication and the same user name used to authenticate is registered as a ColorTrack user.
- Network Accounting  
Selecting a tracked feature displays the `Accounting` screen. Enter the user ID and, if required, enter the account ID.

# Screen Customization

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## Customizing the Home Screen

You can customize the Home screen to suit your preference or work style.

## Adding, Moving, or Removing Tiles on the Home Screen

See "Moving, Adding or Removing the Tiles".

## Customizing App Screens

You can customize App screens to suit your preference or work style.

### NOTE:

- The procedures described in this section are available only for the system administrator.

## Feature List

On the App screens, you can change the order of features, and hide or show features.



### NOTE:

- Feature List is not available for some features on the App screens.



## Changing the Order of Features on an App Screen

- 1 On an App screen, tap **Customize**, and then tap **Feature List** to enter the Customize Mode.
- 2 Touch a feature and then drag it to the desired position.
- 3 Tap **Done** at the upper right corner of the screen to exit the Customize Mode.

## Hiding a feature on an App screen

- 1 On an App screen, tap **Customize**, and then tap **Feature List** to enter the Customize Mode.
- 2 Touch  of the feature to be hidden. The icon changes to .
- 3 Tap **Done** at the upper right corner of the screen to exit the Customize Mode.

## Showing a feature on an App screen

- 1 On an App screen, tap **Customize**, and then tap **Feature List** to enter the Customize Mode.
- 2 Touch  of the feature to be shown. The icon changes to .
- 3 Tap **Done** at the upper right corner of the screen to exit the Customize Mode.

## Presets

You can delete Presets you have created.

- 1 On an App screen, tap **Customize**, and then tap **Presets** to enter the Customize Mode.

**2** Select the trash icon on the row of a Preset to be deleted.

An alert notification appears.

**3** Select `Delete`.



**NOTE:**

- To delete more than one Preset, repeat steps 2 and 3.

**4** Tap `Done` at the upper right corner of the screen to exit the `Customize Mode`.

## Remove App Customization

You can reset an `App` screen that you have customized.

**1** On an `App` screen, tap `Customize`, and then tap `Remove App Customization`.

An alert notification appears.

**2** Select `OK`. The settings of the screen that you have customized are reset to their defaults.

# Encryption and Digital Signature Settings

## Encryption and Digital Signature Overview

### Types of Certificates

To use the Encryption feature and the Signature feature on the machine, a certificate is required.

The following two types of device certificate can be used on the machine:

- A self-signed certificate created by **Dell Printer Configuration Web Tool** (The valid period can be specified from 1 to 9,999 days.)
- A certificate issued by another CA

When you use a certificate issued by another CA, import the certificate using **Dell Printer Configuration Web Tool**.

Types of Encryption	Types of Certificates	
	Self-Signed Certificate	Certificate Issued by Another CA
Encrypting HTTP communications from a client to the machine (SSL/TLS server)	○	○
Encrypting HTTP communications from the machine to a remote server (SSL/TLS client)	X	○
Encryption using IPSec	X	△ <sup>*1</sup>

○ :Available

△ :Set as necessary

X :Not available

\*1 : Available when **IKE Authentication Method** is set to **Digital Signature**.

\*2 : Personal certificates in smart cards can only be used for the e-mail digital signature.

### Requesting another CA to issue a certificate

If **Create** is selectable in the **Security Certificates** screen on **Dell Printer Configuration Web Tool**, you can create a CSR required to get a certificate issued by another CA in the following procedure.

### Encryption Features for Communication

The data sent between the machine and computers on a network can be encrypted.

#### Encrypting HTTP Communications from a Client to the Machine (SSL/TLS Server)

The SOAP, Internet Services (HTTP), IPP, and WebDAV ports use the HTTP server of the machine.

The SSL/TLS protocol is used to encrypt the HTTP communications between a client and



the machine.

To encrypt communications, either one of the device certificate is required: a self-signed certificate or a certificate issued by another CA.

 **NOTE:**

- By encrypting HTTP communications, communications data can be encrypted at the time of printing using IPP (SSL encrypted communications).

## Encrypting HTTP Communications from the Machine to a Remote Server (SSL/TLS Client)

The SSL/TLS protocol is used to encrypt the HTTP communications between a remote server and the machine.

No certificate is required in general. However; if a remote server is set to require an SSL client certificate, you can use a certificate issued by another CA.

When verification of server certificates is enabled to verify the SSL/TLS certificate of a remote server, import a certificate issued by another CA using **Dell Printer Configuration Web Tool** to the machine.

## Encryption using IPsec

IPsec enables IP-level (not application-level) encrypted communications with remote devices.

If you select **Digital Signature** for **IKE Authentication Method**, a certificate issued by another CA is required.

If you select **Preshared Key**, no device certificate is required.

 **NOTE:**

- If the certificate for IPsec contains the V3 extension (keyUsage), "digitalSignature" bit must be asserted.

To verify the certificate of the remote device, you must register a root certificate created by a CA of the remote device on the machine.

 **NOTE:**

- To use certificates that have already been created, import them with **Dell Printer Configuration Web Tool**.

## Configuration of HTTP Communications Encryption

This section describes the settings to encrypt HTTP communications.

### Step 1 Configuration on the Machine

Configure a certificate on the machine. When **Automatic Self-Signed Certificate Creation** is set to **On**, a self-signed certificate is automatically created as the SSL server certificate. If necessary, import a certificate issued by another CA.

 **NOTE:**

- **Automatic Self-Signed Certificate Creation** is set to **On** by default.

The following describes the procedures to set up a certificate by **Dell Printer Configuration Web Tool**.

### Setting up a Certificate using Dell Printer Configuration Web Tool

To set up a certificate using **Dell Printer Configuration Web Tool**, you can have the

machine create a self-signed certificate for SSL server or can import any registered certificate (issued by another CA) to the machine.

 **NOTE:**

- When performing SSL communications using a self-signed certificate created on the machine, or a certificate with which the character code is encoded with UTF-8, you will not be able to connect with SSL if Internet Explorer is used with Mac OS X v10.2 or later. This is because the operating system cannot recognize the character code (UTF-8) of the certificate. Use Netscape 7 in the above-mentioned OS environments.
- You cannot import a certificate that has been already registered in **Device Certificates** or **Other Certificates**. Delete the registered certificate before importing.

### ***Setting the self-signed certificate and the HTTP - SSL/TLS communication***

- 1 Set the self-signed certificate settings as necessary.  
For details, see "Security Certificates".
- 2 Select **Security** → **SSL/TLS Settings**.
- 3 Enable **HTTP - SSL/TLS Communication**.
- 4 Set **HTTP - SSL/TLS Port Number**.

### ***Importing a certificate issued by another CA***

- 1 Import the certificate.  
For details, see "Security Certificates".
- 2 Select the certificate in the **Security Certificates** screen.
- 3 In the certificate details screen, make sure that **Category** is set to **Device Certificate**, and **Certificate Use** is set to **SSL Server**.

## **Step 2 Configuration on the Computer**

To encrypt communications between a web browser and the machine, enter an address beginning with "https" instead of "http" in the address box of the web browser.

- Example of IP address entry:  
https://192.0.2.1/ (IPv4)  
https://[2001:DB8::1234]/ (IPv6)
- Example of Internet address entry:  
https://myhost.example.com/

When encrypting IPP communications (Internet printing) and adding a printer from **Add Printer**, enter an address beginning with "https" instead of "http" as the URL of the printer.

## **Configuration of Encryption using IPsec**

This section describes how to encrypt communications using IPsec.

### **Step 1 Import and Configuration of a Certificate**

The following describes configuration procedures to set up a certificate with **Dell Printer Configuration Web Tool**.

When **IKE Authentication Method** is set to **Digital Signature**, configure a certificate on the machine. No certificate is registered on the machine by factory default.

To configure a certificate using **Dell Printer Configuration Web Tool**, configure the encryption settings for HTTP communications, and then import a certificate issued by another CA to use it for the IPsec certificate.

 **NOTE:**

- You cannot use a self-signed certificate created with **Dell Printer Configuration Web Tool** for IPsec.
- The machine supports the capability to import the RSA® public key (up to 4096 bits).
- If a certificate to be imported as an IPsec certificate contains V3 extension "KeyUsage", "digitalSignature" bit must be asserted.
- For details on how to configure the encryption settings for HTTP communication, refer to "Configuration of HTTP Communications Encryption".

**1** Import a certificate.

For details, see "Security Certificates".

 **NOTE:**

- You cannot import a certificate that has been already registered in **Device Certificates** or **Other Certificates**. Delete the registered certificate before importing.
- If the certificate to be imported contains the V3 extension "keyUsage", "digitalSignature" must be asserted.

**2** Select the certificate in the **Security Certificates** screen.

**3** In the **Certificate Details** screen, make sure that **Category** is set to **Device Certificate**, and **Certificate Use** is set to **IPsec**.

## Step 2 Configuration on the Computer

Configure the following settings on the computer.

- Create an IP security policy
- Assign the IP security policy

 **NOTE:**

- For details on the settings, refer to the help of the computer.

## Configuration of Wireless LAN WPA-Enterprise (EAP-TLS)

 **NOTE:**

- To manage digital certificates, you must set up HTTPS communication.
- WPA-Enterprise is available only when **Infrastructure** is selected as the **Network Type**.
- Be sure to import the certificate with Internet Explorer®.
- After importing a PKCS#12 format certificate, the secret key is not exported even if you execute exporting.

**1** Import the certificate to be used with Wireless LAN (server or root certificate). For details, see "Security Certificates".

**2** Make sure that the **Validity** of the certificate is **Valid** in the **Certificate Details** screen.

**3** Make sure that the check mark is displayed on the right of the certificate in the **Certificate Details** screen, which ensures that the certificate is associated with the purpose of use and currently used.

**4** Import the certificate to be used with Wireless LAN (client or client certificate). For details, see "Security Certificates".

- 5 Make sure that the **Validity** of the certificate is **Valid** in the **Certificate Details** screen.
- 6 Make sure that the check mark is displayed on the right of the certificate in the **Security Certificates** screen, which ensures that the certificate is associated with the purpose of use and currently used.
- 7 Select **Connectivity** → **Wi-Fi**.
- 8 Select **Encryption** in the **Wi-Fi** screen.
- 9 Set **Encryption** to **WPA2 Enterprise** or **Mixed Mode Enterprise (AES/TKIP)**. Settings appear under **Security Settings**.



**NOTE:**

- **WPA2 Enterprise** or **Mixed Mode Enterprise (AES/TKIP)** becomes available only when the following steps are set correctly.
  - Importing a Digital Certificate
  - Setting a Digital Certificate

- 10 Set **EAP-Identity**.
- 11 Set **Authentication Method** to **EAP-TLS**.

## Configuration of Wireless LAN WPA-Enterprise (PEAPV0-MS-CHAPV2, EAP-TTLS PAP, EAP-TTLS CHAP)



**NOTE:**

- To manage digital certificates, you must set up HTTPS communication.
- WPA-Enterprise is available only when **Infrastructure** is selected as the **Network Type**.
- Be sure to import the certificate with Internet Explorer®.
- After importing a PKCS#12 format certificate, the secret key is not exported even if you execute exporting.

- 1 Import the certificate to be used with Wireless LAN (server or root certificate). For details, see "Security Certificates".
- 2 Make sure that the **Validity** of the certificate is **Valid** in the **Certificate Details** screen.
- 3 Make sure that the certificate is checked in the **Security Certificates** screen, which ensures that the certificate is associated with the purpose of use and currently used.
- 4 Select **Connectivity** → **Wi-Fi**.
- 5 Select **Encryption** in the **Wi-Fi** screen.
- 6 Set **Encryption** to **WPA2 Enterprise** or **Mixed Mode Enterprise (AES/TKIP)**. Settings appear under **Security Settings**.
  - **WPA2 Enterprise** or **Mixed Mode Enterprise (AES/TKIP)** becomes available only when the following steps are set correctly.
    - Importing a Digital Certificate
    - Setting a Digital Certificate
- 7 Set **Authentication Method** to **PEAPv0 MS-CHAPv2**, **EAP-TTLS/PAP**, or **EAP-TTLS/CHAP**.
- 8 Set **EAP-Identity**, **Login Name**, and **Password**.

# Understanding Printer Messages

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## Status Codes

The touch panel displays error messages describing the current state of the printer and indicates possible printer problems you must resolve. This chapter provides a list of status codes or error messages, and informs you what you can do to clear error messages. When you contact customer support about an error, have the status codes and error messages ready.

 **CAUTION:**

- **When an error occurs, the print data remaining on the printer and the information accumulated in the memory of the printer may be corrupted.**

 **NOTE:**

- A status code is included in an error message.
- For status codes that are not listed in this chapter, refer to instructions in each error message.

## "005-001" - "011-999"

Status Code	Cause and Remedy
010-105	Remove the jammed paper, and then try printing again.
010-106	
010-319	An error occurred in the machine.
010-328	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
010-329	
010-331	
010-332	
010-333	
010-334	
010-335	
010-338	
010-339	
010-340	Turn off the printer, and then install the fusing unit. Contact customer support if this failure is repeated.
010-344	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
010-345	
010-346	
010-355	
010-420	The fusing unit needs to be replaced soon. Prepare a new fusing unit.
010-421	Replace the fusing unit.

## "016-001" - "016-999"


Status Code	Cause and Remedy
016-210	Software error.
016-211	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-212	
016-213	
016-215	
016-217	
016-218	
016-219	
016-230	
016-233	Software error. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-234	An error occurred in the Authentication feature of the machine.
016-235	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-242	An error occurred in the machine.
016-244	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-245	An accessory that is not available for the authentication and accounting settings is attached. After changing the settings related to the accessory in the System Administration mode, turn off the printer, remove the accessory, and then turn on the printer. Configure the authentication and accounting settings again, and then restart the printer.
016-246	An accessory that is not available for the authentication and accounting settings is attached. After changing the settings related to the accessory in the System Administration mode, turn off the printer, remove the accessory, install the correct accessory, and then turn on the printer.
016-310	An error occurred in the machine.
016-322	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-324	
016-325	
016-326	
016-327	
016-328	
016-329	An error occurred in the page memory. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-330	An error occurred in the machine.
016-331	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-332	
016-333	An error occurred in the page memory.
016-334	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

Status Code	Cause and Remedy
016-335	An error occurred in the machine.
016-336	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-337	
016-338	
016-339	
016-340	
016-341	
016-342	
016-343	
016-345	
016-347	
016-348	
016-349	
016-350	
016-351	
016-352	
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016-358	
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016-360	
016-361	
016-362	
016-363	
016-364	
016-365	
016-366	
016-367	
016-368	
016-370	
016-371	
016-383	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-400	Confirm and correctly enter the user name or password. If the error still is not resolved, check whether the network environment is set correctly.
016-401	Set the authentication method of the machine to the same method as set for the authentication server.
016-402	Confirm the network connection and switch setting of the authentication device physically connected to the machine via a network, and check whether it is connected to the machine correctly.


Status Code	Cause and Remedy
016-403	The root certificate did not match. Confirm the authentication server and store the root certificate of the server certificate of the authentication server into the machine. If you cannot acquire the root certificate of the server certificate, disable the certification verification of IEEE 802.1x settings.
016-404	An internal error occurred. Contact customer support if this failure is repeated.
016-405	Initialize the certificate.
016-406	<ul style="list-style-type: none"> <li>• Store an SSL client certificate in the machine, and set it as the SSL client certificate.</li> <li>• If an SSL client certificate cannot be set on the machine, select an option other than EAP-TLS for the authentication method.</li> </ul>
016-407	After automatically obtaining the IP address, the machine failed to retrieve proxy server settings from the DHCP server.
016-408	Modify the customized program and install it again.
016-409	
016-410	
016-411	
016-412	
016-422	<ul style="list-style-type: none"> <li>• When another error message is displayed, solve the problem first.</li> <li>• When the printer is in maintenance mode, complete the maintenance operation.</li> <li>• When another device is accessing the printer, wait until the access is complete.</li> </ul> If the problem persists, turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-423	<ul style="list-style-type: none"> <li>• When another error message is displayed, solve the problem first.</li> <li>• When another device is accessing the printer, wait until the access is complete.</li> </ul> If the problem persists, turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-424	Exit the Power Saver mode.
016-425	If the problem persists, turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-427	The user name or password for 802.1x authentication did not match in the setting of Ethernet 2. Enter the correct user name and password in the setting of Ethernet 2. If the error is repeated, check whether the network environment is set correctly.
016-428	The 802.1x authentication method cannot be processed in the setting of Ethernet 2. Set the authentication method of the machine to the same method as set for the authentication server in the setting of Ethernet 2.
016-429	Confirm the network connection of Ethernet 2 and switch setting of the authentication device physically connected to the machine via a network, and check whether it is connected to the machine correctly.
016-430	Confirm the authentication server and store the root certificate of the server certificate of the authentication server into the machine. If you cannot acquire the root certificate of the server certificate, disable the server certificate verification of IEEE 802.1x for Ethernet 2.
016-431	An internal error occurred. Contact customer support if this failure is repeated.
016-432	SSL client certificate error for Ethernet 2. Take one of the following measures: Store an SSL client certificate in the machine to set the SSL client certificate. If an SSL client certificate cannot be set on the machine, select an option other than EAP-TLS for the authentication method.
016-450	The SMB host name already exists. Change the host name.



Status Code	Cause and Remedy
016-453	Updating of the IPv6 address and host name for the DNS server failed. Check whether the IP address of the DNS server is set correctly.
016-454	Unable to retrieve the IP address from DNS. Confirm the DNS configuration and IP address retrieve setting.
016-455	Confirm the network cable connection and the IP address of the SNTP server are correct.
016-456	Received a message from the SNTP server stating that the server is not synchronized with the standard time source. Check the SNTP settings.
016-500	An error occurred in the machine.
016-502	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-514	An error occurred during processing of an XPS document. If an error occurred while printing from a driver which supports XPS, print from the application using another print driver (PCL, etc.). If an error occurred while direct printing an XPS document, print using the print driver (PCL, etc.) from XPS Document Viewer.
	<b>NOTE:</b> • XPS stands for XML Paper Specification.
	016-515
	<b>NOTE:</b> • XPS stands for XML Paper Specification.
	016-516
	<b>NOTE:</b> • XPS stands for XML Paper Specification.
	016-517
016-518	With the PostScript driver, specifying a combination of booklet and Watermark/UUID is not possible. Cancel one of them.
016-519	Printable page limit is exceeded. Have your system administrator change the maximum limit of printable pages.
016-521	Switch off the machine power and connect the smart card reader, and then switch on the machine power.
016-522	The LDAP server is requesting an SSL client certificate. Set an SSL client certificate on the machine.
016-523	The machine cannot trust the SSL certificate of the LDAP server. Register the root certificate for the LDAP server's SSL certificate to the machine.
016-524	Change the SSL certificate of the LDAP server to a valid one. You can clear this error by disabling SSL/TLS communication for LDAP; however, note that this will not ensure the validity of the LDAP server.
016-525	
016-526	Set the same LDAP server address to the machine and to the SSL certificate of the LDAP server. You can clear this error by disabling SSL/TLS communication for LDAP; however, note that this will not ensure the validity of the LDAP server.

Status Code	Cause and Remedy
016-527	LDAP server SSL authentication error. Contact Dell.
016-528	Log in to the machine with the smart card, and then execute the operation again.
016-533	Check whether the clocks on the machine and Kerberos server are correctly set. Also check whether the summer time and the time zone are correctly set on the machine and Kerberos server.
016-534	Check whether the domain name and the server address have been correctly set on the machine. For connection to <b>Windows 2003 Server</b> , specify the domain name in uppercase.
016-539	Kerberos server authentication protocol error Contact Dell.
016-543	The specified domain was deleted from your authentication management software. Select <b>Refresh</b> on the <b>Domain</b> screen, and update the domain information, or add the domain to your authentication management software.
016-545	Adjust the times of the computer of Active Directory and the computer on which your authentication management software is installed. Also, if the <b>Windows</b> Time Service of the computer on which the software is installed has stopped, start the service.  <b>NOTE:</b> <ul style="list-style-type: none"><li>For more information on the process, refer to the manual for your authentication management software.</li></ul>
016-546	A Local User tried to obtain the information of another user. Contact Dell.
016-548	Register the machine in your authentication management software.  <b>NOTE:</b> <ul style="list-style-type: none"><li>For more information on the process, refer to the manual for your authentication management software.</li></ul>
016-553	You must upgrade your authentication management software.
016-554	Correctly set the login name and password used for domain user authentication of your authentication management software.
016-555	Check whether you can connect from your authentication management software to the database or Active Directory.  <b>NOTE:</b> <ul style="list-style-type: none"><li>For more information on the process, refer to the manual for your authentication management software.</li></ul>
016-556	Because the service is overloaded, wait for a while and try the same operation again. If the error still is not resolved, check your authentication management software.  <b>NOTE:</b> <ul style="list-style-type: none"><li>For more information on the process, refer to the manual for your authentication management software.</li></ul>
016-557	Check your authentication management software.  <b>NOTE:</b> <ul style="list-style-type: none"><li>For more information on the process, refer to the manual for your authentication management software.</li></ul>
016-559	A remote download parameter error occurred. Confirm the settings for essential system data.
016-560	Check whether the network cable is connected, and confirm the settings of your authentication management software. Also, print a Configuration Report, and if the DNS address of the server is set to "Server Name / IP Address" for "Authentication Agent", check whether DNS is enabled.
016-562	Correct the guest database entries of Active Directory so that they do not contain the same smart card information.

Status Code	Cause and Remedy
016-565	Make sure that the USB memory device is inserted securely. If this error occurs during data backup, make sure on your computer that a folder named "backup" exists in the USB memory device.
016-567	The capacity is not sufficient for backup. Delete existing backup files to make free space.
016-570	Increase the size of memory for job tickets, switch off the machine power, make sure that the touch screen is blank, and then switch on the machine power. Try the same operation.
016-571	Unable to print because the content of the job ticket is incorrect. Correct the print settings, and then send the print job again.
016-572	Unable to print because the paper size, quality, or color attribute specified for the job ticket is not supported. Correct the paper attribute.
016-573	Unable to print because the content of the job ticket is incorrect. Check if the print driver is supported by the machine, and is installed on the computer correctly. Also check the operating conditions for the print driver.
016-700	On the print driver, set the passcode string equal to or longer than the value specified in <b>Minimum Passcode Length for Stored Jobs</b> .
016-701	Stop unnecessary ports or delete unnecessary data to increase memory.
016-702	Print page buffer is insufficient. <ul style="list-style-type: none"> <li>• Lower the print image quality. See the help of the print driver.</li> <li>• Increase the print page buffer size by adding memory.</li> </ul>
016-705	Use the print driver appropriate for the machine. Contact customer support if this failure is repeated.
016-706	Delete unnecessary files from the machine, and delete unnecessary Secure Print users.
016-707	A <b>Sample Set</b> job error. Contact Dell.
016-708	Delete unnecessary data from the storage space.
016-709	An error occurred during print processing. Contact Dell.
016-710	
016-711	<ul style="list-style-type: none"> <li>• Reduce the number of pages of the document.</li> <li>• Lower the resolution with <b>Resolution</b>.</li> <li>• Reduce the magnification with <b>Reduce/Enlarge</b>.</li> <li>• Ask your system administrator to increase the value set for <b>Maximum Total Data Size</b>.</li> </ul>
016-715	Enter the correct password of the ESCP form.
016-716	Unable to spool TIFF file because of insufficient storage space. Delete unnecessary files and users from the storage space.
016-717	Unable to create a report. The information required for creating the report is not stored in the memory. After completing the job that you want to confirm in a report, do not execute 200 or more jobs before printing the report.
016-718	The available memory is too small to store the document. Reduce the resolution, or cancel 2 sided printing or N up feature, and then print again.
016-719	Increase the size of the print page buffer.
016-720	An invalid command is included in PCL print data. Confirm the print data and try printing again.
016-721	ESC/P-K command error occurred. Confirm the print data.
016-726	The printer could not select a printer language automatically. Contact customer support if this failure is repeated.
016-728	An unsupported tag is included in the TIFF file. Confirm the print data.
016-729	Change the number of colors or resolution for the TIFF file, and execute the operation again.

Status Code	Cause and Remedy
016-731	Unable to print TIFF data because it was interrupted. Try the same operation.
016-732	The form specified by emulation has not been registered at the host side. Resend the form data.
016-738	Specify a paper size supported for booklet creation, and try printing again.
016-739	Specify a combination of document size and paper size supported for booklet creation, and try printing again.
016-740	Specify a paper tray supported for booklet creation, and try printing again.
016-741	An error occurred during the update process of the machine.
016-742	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
016-743	
016-744	
016-745	
016-746	An unsupported feature is included in the received PDF. Print using a print driver.
016-747	Insufficient memory. <ul style="list-style-type: none"> <li>• Increase the annotation image size.</li> <li>• Reduce the value of Repeat Image.</li> </ul>
016-748	Reduce the number of print pages by dividing the print data or by printing one copy at a time when printing multiple copies.
016-749	The print language is not supported. For a print job, use the machine's print driver. Contact customer support if this failure is repeated.
016-750	The machine received a printing job ticket with a PDF or XPS from an application that allows direct transmissions of files, but the printing job ticket data had a grammar or print instruction unsupported by the machine. Check whether you are correctly using the application and whether the print instruction was correct. If your application usage and print instruction are correct, check with the application manufacturer that sent the print job for operations of the application. If the error still is not resolved, have the Configuration Report, the Job History Report, and the print data with the printing job ticket ready, and contact Customer Support at <a href="http://dell.com/contactdell">dell.com/contactdell</a> .  <b>NOTE:</b> <ul style="list-style-type: none"> <li>• XPS stands for XML Paper Specification.</li> </ul>
016-751	Probable causes are as follows: <ul style="list-style-type: none"> <li>• During the PDF Bridge processing, a syntax or parameter error occurred, an undefined command was used, and a PDF file was damaged. Use the print driver to print the document.</li> <li>• When Print Processing Mode ([408]) for the PDF Direct Print feature has been set to PS ([1]), memory is insufficient. Use the print driver to print the document or increase PostScript memory.</li> <li>• When Print Processing Mode ([408]) for the PDF Direct Print feature has been set to PS ([1]), a PDF file including OpenType fonts is processed. Create a PDF file in which OpenType fonts are not included.</li> </ul>
016-752	Unable to process for PDF Bridge because of insufficient memory space. Lower the image quality to reduce the data size.
016-753	Enter the correct password on the printer.
016-755	Cancel the print protection using Adobe Reader, and try printing again.
016-756	No permission to use the service. Contact your system administrator.
016-757	The account is not registered. Contact your system administrator.

Status Code	Cause and Remedy
016-758	No permission to use the service. Contact your system administrator.
016-759	The number of pages reached the maximum number of pages for this service. Contact your system administrator.
016-760	<ul style="list-style-type: none"> <li>• Enable <b>High Speed Image Processing</b>. See the help of the print driver.</li> <li>• Increase PostScript memory.</li> </ul>
016-761	Enable <b>High Speed Image Processing</b> . See the help of the print driver. If the error is not resolved, set <b>Print Page Mode</b> to <b>On</b> .
016-762	Specify correct printer language.
016-772	Set the DNS server address.
016-792	The specified job history does not exist. Try the same operation.
016-798	Unable to print a document due to insufficient storage space. Contact customer support if this failure is repeated.
016-799	Check the parameter of the print data of the application and the Print Setup settings, and try printing again.
016-910	The paper requested by the selected print settings are not installed. Install the paper or replace the paper.
016-911	Cancel the job. Install the paper or replace the paper.
016-917	The toner cartridge (yellow) is empty. Replace the toner cartridge with a new one.
016-918	The toner cartridge (magenta) is empty. Replace the toner cartridge with a new one.
016-919	The toner cartridge (cyan) is empty. Replace the toner cartridge with a new one.
016-920	The paper specified for printing cannot be detected. Change the settings. Or, replace the tray.
016-940	Different size settings for side 1 and side 2 were detected after the job had started with duplex printing specified. Change the settings, and try again.
016-941	Mixed size/direction set for the page with images was detected after the job had started with Booklet specified. Change the settings, and try again.
016-942	Different size settings for side 1 and side 2 were detected after the pages with duplex printing specified had been deleted. Change the settings, and try again.
016-943	Different size settings for side 1 and side 2 were detected after the document and separators had been inserted for the pages with duplex printing specified. Change the settings, and try again.
016-944	The document collate setting for the pages including the cover with images or the document with separators with Document Attachment specified was detected. Change the settings, and try again.
016-945	The documents that do not support 2-Sided Print has been inserted for the pages for duplex printing. Change the settings, and try again.
016-946	A document or separator has been inserted between Cover pages or Separator pages. Change the settings, and try again.
016-948	The covers with images, separators, or blank pages were detected after the job had started with Booklet specified. Change the settings, and try again.

Status Code	Cause and Remedy
016-949	The document with a different size/orientation from the operated page was tried to be inserted for the job with Attachment specified. Change the settings, and try again.

## "017-001" - "017-999"

Status Code	Cause and Remedy
017-500	Illegal response from the Job Limit Server. Check the job parameter settings, and try again. Contact customer support if this failure is repeated.
017-501	Consult your system administrator to change your authorization.
017-503	The number of digits of the print job password exceeded the maximum limit. Use the smaller number of digits for your print job password and try the same operation.
017-504 017-505	Connection to the Job Limit server failed. Check the network status. Check if the Job Limit server is working.
017-506	The job was canceled due to rejection by the job limit server. Consult your system administrator.
017-507	The direct print feature is disabled on the printer. Enable the direct print feature.
017-720	Correct the value of Contact Type specified in the PJI command, and try again.
017-721	Correct the value of Geographic Region specified in the PJI command, and try again.
017-722	Try the operation when the total impressions are up to 9,999,900.
017-729	<ul style="list-style-type: none"> <li>• Enable <b>Spool for IPP</b> on <b>Dell Printer Configuration Web Tool</b> of the destination machine.</li> <li>• Wait for a while and try the same operation again.</li> </ul>
017-730	Check the following: <ul style="list-style-type: none"> <li>• The network cable is connected properly.</li> <li>• The storage destination machine is powered on.</li> <li>• The IPP port of the storage destination machine is enabled.</li> </ul> Contact customer support if this failure is repeated.
017-731	Check the following: <ul style="list-style-type: none"> <li>• The IP address of the POP server is set on the machine.</li> <li>• The network cable is connected properly.</li> </ul>
017-732	Set the print mode to online on the destination machine. Contact customer support if this failure is repeated.
017-733	An internal error occurred when the job is sent to the destination device. Contact customer support if this failure is repeated.
017-734	Send the print job again by using the printer driver or software that does not use IPP. Contact customer support if this failure is repeated.
017-735	Device usage is prohibited by the user. Contact customer support if this failure is repeated.
017-755	Software download error. Take one of the following measures: <ul style="list-style-type: none"> <li>• Check the settings of <b>Software Update</b> on <b>Dell Printer Configuration Web Tool</b>.</li> <li>• Download the software through USB.</li> </ul>
017-759	Software update error. Contact our Customer Support at <a href="http://dell.com/contactdell">dell.com/contactdell</a> .
017-771	Software error. Contact customer support if this failure is repeated.
017-778	The sending queue became full, because no IP address is set or assigned. The message sending is rejected.

Status Code	Cause and Remedy
017-779	Unplugged network cable is detected on the device side. Confirm the network cable connection.
017-780	A job suspended with <b>Print Around</b> was automatically deleted after a certain period of time. Change the settings of <b>Print Around</b> if necessary.
017-787	Google Cloud Print error. Use a method other than Google Cloud Print.
017-789	Check the job parameter settings, and try again. Contact customer support if this failure is repeated.
017-790 017-791	Check the time permitted for the operation for you, and try again. Consult your system administrator to change your authorization.
017-792 017-793 017-794 017-795 017-796 017-797 017-798 017-799	You are not permitted to print. Consult your system administrator to change your authorization.

## "018-001" - "020-999"

Status Code	Cause and Remedy
018-400	IPsec setting error. Remove the inconsistency of the IPsec settings, and enable IPsec again. <ul style="list-style-type: none"> <li>• When <b>Preshared Key</b> is set in <b>IKE Authentication Method</b>, set the passcode.</li> <li>• When <b>Digital Signature</b> is set in <b>IKE Authentication Method</b>, set an IPsec certificate.</li> </ul>
018-405	An error occurred during LDAP authentication. The account is disabled in Active Directory of the authentication server, or the access is set to disabled. Consult your network administrator.
018-406 018-407	The machine detected the same IP address for Ethernet 1 and Ethernet 2 on different networks. Set different IP addresses to Ethernet 1 and Ethernet 2. If you want to set the same IP address, contact our Customer Support at <a href="http://dell.com/contactdell">dell.com/contactdell</a> .
018-408	IPv4 address duplication on the network of Ethernet 2. Change the IPv4 address of Ethernet 2.
018-409	IPv6 address duplication on the network of Ethernet 2. Change the IPv6 address of the device in the network.
018-410	Updating of the IPv4 address and host name for the DNS server failed on the network of Ethernet 2. Check whether the IP address of the DNS server is set correctly.
018-411	Updating of the IPv6 address and host name for the DNS server failed on the network of Ethernet 2. Check whether the IP address of the DNS server is set correctly.
018-412 018-413	The IPv6 address already exists on the network of Ethernet 2. Change the IPv6 address of the network in which the address already exists.
018-414	IP address for IPv6 set manually in Ethernet 2 is incorrect. Set the IP address correctly.


Status Code	Cause and Remedy
018-415	IP address for IPv6 set manually in Ethernet 2 is incorrect. Change the <code>Manual Address</code> on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
018-416	The IPv6 address already exists in the network of Ethernet 2. Change the IPv6 address of the network in which the address already exists.
018-424 018-425	The root or client certificate for WPA-Enterprise does not exist. Register the root or client certificate in the printer. If you cannot obtain any of these certificates, Use an option other than WPA-Enterprise.
018-426	The server certificate for WPA Enterprise is invalid or could not be obtained. <ul style="list-style-type: none"> <li>• Check if the server certificate has not expired. Check the certificate format and digital signature algorithm are correct.</li> <li>• If you cannot have a valid server certificate, select an option other than WPA-Enterprise.</li> </ul>
018-427	Address range duplication between Wi-Fi and Wi-Fi Direct. Change the IP address setting of the DHCP server of Wi-Fi Direct to avoid duplication.
018-428	The wireless LAN module is not connected correctly. Turn off the printer, and then check the connection.
018-429	IPv4 address duplication on the network used for Wi-Fi. Change the IPv4 address of either the printer or the device on the network.
018-430	IPv4 address duplication on the network used for Wi-Fi Direct. Change the IPv4 address of either the printer or the device on the network.
018-431	IPv6 address (self-assigned address 1 or DHCPv6 address) duplication on the network used for Wi-Fi. Change the IPv6 address of the device on the network.
018-432	IPv6 address (self-assigned address 2) duplication on the network used for Wi-Fi. Change the IPv6 address of the device on the network.
018-433	IPv6 address (self-assigned address 3) duplication on the network used for Wi-Fi. Change the IPv6 address of the device on the network.
018-434	The IPv6 address (manual) is invalid on the network used for Wi-Fi. Change the IPv6 address manually configured for the printer.
018-435	IPv6 address (manual) duplication on the network used for Wi-Fi. Change the IPv6 address manually configured for the printer, or change the address of the device.
018-436	The link-local address of the printer is duplicated on the network used for Wi-Fi. Change the IPv6 address of the device of the network.
018-500	The certificate does not exist in the authentication server. Configure the server certificate. Or, cancel authentication.
018-439	Wi-Fi Direct error due to Ad hoc confliction. Change <code>Network Type</code> for Wi-Fi to <code>Infrastructure</code> .
018-440	Wi-Fi Direct error due to IPv6 confliction. Change <b>IP Mode:</b> to <b>Dual Stack</b> or <b>IPv4</b> .
018-441	Wi-Fi Direct error due to 5 GHz mode confliction. Change the <code>Wi-Fi Band</code> to <code>Auto</code> or <code>2.4 Ghz</code> .
018-501	Check the network connection and the address of the CA server.
018-503 018-504	Communications with the CA server set in the machine failed. Execute the authentication operation again.
018-506	Communications with the CA server set in the machine failed. Try the same operation. Contact customer support if this failure is repeated.
018-507	Enter the correct user name or password.
018-508	Check the status of the authentication server.
018-557	The specified file name contains invalid characters.
018-558	Check whether the specified directory and file exist on the HTTP server.



Status Code	Cause and Remedy
018-559	The same file name already exists. Select any option other than <b>Do Not Save</b> in If File Already Exists.
018-560	A user authentication error occurred. (Received HTTP Status 401). Check the following: <ul style="list-style-type: none"> <li>• Login name</li> <li>• Login password</li> <li>• The HTTP server name</li> <li>• The HTTP server path name</li> </ul>
018-561	The hostname or the script storage location is not correct. (Received HTTP Status 404). Check the following: <ul style="list-style-type: none"> <li>• The HTTP server name</li> <li>• The HTTP server path name</li> </ul>
018-562	A client-side error occurred. (Received HTTP Status 4xx other than 401 and 404). Check the following: <ul style="list-style-type: none"> <li>• The server settings</li> </ul>
018-563	A server-side error occurred. (Received HTTP Status 5xx). Check the following: <ul style="list-style-type: none"> <li>• The server settings</li> </ul>
018-564	DNS resolution for the specified hostname failed. Check the following: <ul style="list-style-type: none"> <li>• The machine is connected to the DNS server.</li> <li>• The address of the DNS server is set on the machine.</li> </ul>
018-565	DNS resolution for the proxy server name set on the machine failed. Check the following: <ul style="list-style-type: none"> <li>• The proxy server name set on the machine is registered on the DNS server.</li> <li>• The machine is connected to the DNS server.</li> <li>• The address of the DNS server is set on the machine.</li> </ul>
018-566	Unable to connect to the HTTP server. Check the following: <ul style="list-style-type: none"> <li>• The network cable connection on the machine</li> </ul>
018-568	An SSL/TLS connection error occurred. Check the following: <ul style="list-style-type: none"> <li>• SSL settings for the HTTP server is correct.</li> <li>• The HTTP server name</li> <li>• The HTTP server path name</li> </ul>
018-569	The SSL server certificate may have a problem. <ul style="list-style-type: none"> <li>• Check whether the SSL server certificate is registered on the HTTP server.</li> <li>• Check whether the SSL server certificate is valid. Check the following: <ul style="list-style-type: none"> <li>The certificate is unexpired.</li> <li>The time set on the machine is correct.</li> <li>The certificate is not on the discard list.</li> </ul> </li> <li>• Check the certificate path to the SSL server certificate, and import the required CA certificate.</li> <li>• If the SSL server certificated is not registered on the HTTP server, disable the <b>Verify Remote Server Certificate</b> setting.</li> </ul>
018-570	A client certificate authentication error occurred on the HTTP server. Check the following: <ul style="list-style-type: none"> <li>• The SSL client certificate is registered on the machine.</li> <li>• The device certificate is correctly registered on the HTTP server.</li> </ul>
018-571	Try the same operation. Contact customer support if this failure is repeated.
018-588	When <b>Append a Number</b> or <b>Append Date &amp; Time</b> is set as the process to be executed in case of a file name duplication, confirm that the file format is not multi-page.

Status Code	Cause and Remedy
018-589	When <b>Append a Number</b> or <b>Append Date &amp; Time</b> is set as the process to be executed in case of a file name duplication, check the NEXTNAME.DAT file is correct.
018-590	A file or folder of the same name was detected on the server. <ul style="list-style-type: none"> <li>• Execute the operation again when other machines are not accessing the folder.</li> <li>• Contact customer support if this failure is repeated.</li> </ul>
018-595	Multiple entries containing the same smart card information were detected in the database of the LDAP server. Correct the temporary user entries of the LDAP server so that they do not contain the same smart card information.
018-596	An error occurred during LDAP server authentication. Contact customer support if this failure is repeated.
018-700	The network for Web Applications is being initialized. Wait for a while and try the same operation again.
018-709	Network communication error For IPv4 environment <ul style="list-style-type: none"> <li>• Check the IPv4 address of the machine.</li> <li>• Confirm whether the network cable is connected correctly.</li> <li>• Check the address of the DHCP server.</li> </ul> For IPv6 environment <ul style="list-style-type: none"> <li>• Confirm whether the global address distributed from an IPv6 router is assigned to the IPv6 address of the machine.</li> <li>• Confirm whether the network cable is connected correctly.</li> <li>• Confirm whether the IPv6 router is set correctly.</li> </ul>
018-715	There is no authentication method which supports both the machine authentication and Kerberos server authentication. <ul style="list-style-type: none"> <li>• Set the appropriate authentication method in the Kerberos server.</li> <li>• Disable the FIPS140 validation mode of the machine.</li> </ul> Contact customer support if this failure is repeated.
018-722	The machine cannot connect to Google Cloud Print, because of a network error. Check that the network cable is connected properly. Also check that the environmental settings are adequate.
018-723	The machine cannot connect to Google Cloud Print, because of a certificate error. Check that the root CA certificate registered to the machine and the certificate verification settings are correct.
018-724	The machine cannot connect to Google Cloud Print, because of an SSL communication error. Check the SSL settings.
018-725	The user password set in the Kerberos server expired.
018-726	The root (or intermediate) CA certificate on the smart card is not registered on the machine. Register the root (or intermediate) CA certificate on the smart card to the machine.
018-727	Check the certificate on the smart card, and then update the certificate if it is invalid or revoked. Also, check whether the certificate is enabled in the server.
018-728	<ul style="list-style-type: none"> <li>• When the root CA certificate of the KDC certificate is not registered, register the root CA certificate.</li> <li>• When the KDC certificate is revoked, update the KDC certificate of the server.</li> <li>• Confirm that the address of the Kerberos server set in the machine and the address on the KDC certificate of the server match.</li> </ul>
018-729	The machine cannot connect to Google Cloud Print, because of a time out error. Wait for a while and try the same operation again. If the problem still exists even after the remedy, check that the network cable is connected properly. Also check that the environmental settings are adequate.

<b>Status Code</b>	<b>Cause and Remedy</b>
018-730	The machine cannot connect to Google Cloud Print, because of a network error. Check that the network cable is connected properly. Also check that the environmental settings are adequate. Contact customer support if this failure is repeated.
018-731	Check the data storage capacity, and delete unnecessary data. Complete all the active jobs, and then execute the operation again.
018-737	An internal error occurred. Contact customer support if this failure is repeated.
018-738	The machine cannot connect to Google Cloud Print, because of a network error. Check that the network cable is connected properly. Also check that the environmental settings are adequate.
018-739	An internal error occurred. Contact customer support if this failure is repeated.
018-740	The machine cannot connect to Google Cloud Print, because of a certificate error. Check that the root CA certificate registered to the machine and the certificate verification settings are correct.
018-741	An internal error occurred. Contact customer support if this failure is repeated.
018-743	The machine cannot connect to Google Cloud Print, because of a proxy connection error. Check that the proxy server settings are adequate.
018-744	The machine cannot connect to Google Cloud Print, because DNS failed to resolve the name. Check that the DNS settings are adequate.
018-745	The machine cannot connect to Google Cloud Print, because of a proxy connection error. Check that the proxy server settings are adequate.
018-746	The machine cannot connect to Google Cloud Print, because DNS failed to resolve the name. Check that the DNS settings are adequate. Contact customer support if this failure is repeated.

Status Code	Cause and Remedy
018-747	<ul style="list-style-type: none"> <li>• Confirm the connection of the network cable.</li> <li>• Check whether the IP address is correct when an IP address is used for the transferring destination address.</li> <li>• Ensure that the port to be used for SMB transfer (*1) is not blocked on the server, or on the router between the machine and the server.</li> </ul> <p>&lt;SMB server&gt; Check that the port to be used for SMB transfer (*1) is not blocked by virus scan or firewall software on the server.</p> <p>&lt;Name resolution server&gt; When the server name is 15 characters or shorter and the communication is done through subnet, check the WINS server settings to see if the server address is resolved correctly.</p> <p>&lt;Windows networks&gt; For Windows networks, ensure that an unexpected master browser (*2) is running. If the master browser is an unexpected PC, existing servers may not be displayed and this problem may occur.</p> <p> <b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• (*1) File sharing service : port 137/NetBIOS Name Service(UDP), port 138/NetBIOS Datagram Service(UDP), port 139/NetBIOS Session Service(TCP) Direct hosting service : port 445 (TCP)</li> <li>• (*2) A master browser manages a list of computers on Windows networks as a browse list. (In general, the domain controller is a master browser.)</li> </ul> <p>After the remedy written above, try logging in to the SMB server from a computer using the same user name, and then try saving a file in the same location on the server. If this is successful, try the same operation from your machine. If the problem persists, contact customer support with the server information such as the manufacturer, model, and OS.</p>
018-755	<ul style="list-style-type: none"> <li>• Confirm the file Sharing service (communicating via port 139 (TCP), and port 445 (TCP)) is authorized for the transferring destination server, router between the machine and server, and virus security software or firewall software on the forwarding destination server.</li> <li>• If two or more gateways exist and the communication over subnet fails, check the gateway address configuration on the machine.</li> <li>• After the remedy written above, try logging in to the SMB server from a computer using the same user name, and then try saving a file in the same location on the server. If this is successful, try the same operation from your machine. If the problem persists, contact customer support with the server information such as the manufacturer, model, and OS.</li> </ul>
018-758	<ul style="list-style-type: none"> <li>• Check whether the save location is correct.</li> <li>• Check whether the specified folder name can be used in the SMB server.</li> </ul>
018-759	<ul style="list-style-type: none"> <li>• Confirm the save location name does not include the following 10 invalid characters: " / :   &lt; &gt; ; , * ? .</li> <li>• Confirm the file name does not include the following 11 invalid characters: " / :   &lt; &gt; ; , * ? \ .</li> <li>• Confirm there is no space in the head and end of a string of characters.</li> <li>• Confirm there is no period in the head and end of a string of characters.</li> </ul> <p>It is recommended that you do not use machine-dependent characters.</p> <p>After the remedy written above, try logging in to the SMB server from a computer using the same user name, and then try saving a file in the same location on the server. If this is successful, try the same operation from your machine. If the problem persists, contact customer support with the server information such as the manufacturer, model, and OS.</p>
018-762	<p>Check whether the virus security software is working on the saving destination PC. If the software is working, reduce the number of document pages to scale down the file size.</p>
018-763	<p>The character code conversion failed in the machine. Confirm the server name, share name, and path name do not contain invalid characters.</p>

## "021-001" - "022-999"

Status Code	Cause and Remedy
021-210 021-211 021-212	Check the connection between the smart card reader and the machine. Turn off the printer, and turn it on again. If the error still is not resolved, the smart card reader may be defective. Connect an unbroken smart card reader and execute the operation again.
021-213	There is a problem with the unit price table settings for the connected product. Export the unit price table and modify it using <b>Dell Printer Configuration Web Tool</b> . Set the number from 1 to 9,999,999.
021-214	An error occurred during encrypted communication between the machine and the USB memory device. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
021-215	The accounting/billing device connected does not match the device specified on the machine. Change the setting on the machine or connect the correct accounting/billing device, and switch off the machine power, make sure that the touch screen is blank, and then switch on the machine power.
021-360 021-361	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
021-401	The number of authentication devices such as a smart card reader connected exceeds the setting value. Disconnect the authentication device.
021-500	Wait until the active job finishes.
021-700 021-701	USB interface error. Check the USB connection. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
021-947	An error occurred during the scanning process. For operation with the smart card, the machine detects the remaining value of the smart card, and it causes a job to be temporarily stopped.
021-948	An error occurred during the printing process. For operation with the smart card, the machine detects the remaining value of the smart card, and it causes a job to be temporarily stopped.
021-949	An error occurred when a job is temporarily stopped, not while a job is in progress. For operation with the smart card, the machine detects the remaining value of the smart card, and it causes a job to be temporarily stopped.


## "023-001" - "025-999"

Status Code	Cause and Remedy
024-340	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
024-341	
024-342	
024-343	
024-345	
024-346	
024-347	
024-348	
024-349	
024-350	
024-351	
024-352	
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024-366	
024-367	
024-368	
024-370	
024-371	
024-372	
024-373	
024-375	
024-376	
024-700	The memory capacity required to use the optional feature is not installed. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
024-701	Specify a paper type that is compatible with the Face Up/Down setting.
024-702	Remove the jammed paper, and then try printing again.
024-703	Unable to print because the number of booklet pages exceeds the maximum number allowed. Use paper of less weight. Or, cancel the booklet creation.
024-705	The template was not found. Delete the data, and try the same operation again.

Status Code	Cause and Remedy
024-707	The paper type is not supported for duplex or inversion. Change the paper type, or change to 1-sided printing.
024-708	The paper type is not supported for duplex or inversion. Change the paper type, or change to face-up printing.
024-742	The number of pages exceeded the maximum number allowed for booklet creation. Change the printer properties setting to split the pages to create separate volumes, or to cancel the booklet creation setting.
024-746	The specified paper type is not compatible with the specified paper size, paper tray, output tray, or 2 sided printing.
024-747	The combination of the specified features such as Document Size, Paper Size, Paper Tray, 2 sided printing, and Output Tray is incompatible.
024-775	The number of pages exceeded the maximum number allowed for booklet creation.
024-910	A paper size mismatch error occurred on Tray 1. Make sure that the size of paper loaded in the tray is correct and that the paper guides are set correctly.
024-911	A paper size mismatch error occurred on Tray 2. Make sure that the size of paper loaded in the tray is correct and that the paper guides are set correctly.
024-923	The toner cartridge (yellow) is empty. Replace the toner cartridge with a new one.
024-924	The toner cartridge (magenta) is empty. Replace the toner cartridge with a new one.
024-925	The toner cartridge (cyan) is empty. Replace the toner cartridge with a new one.
024-933	Replace the drum cartridges.
024-940	
024-941	
024-947	The machine detected that Tray 2 was not installed.
024-950	Load the paper to Tray 1.
024-951	Load the paper to Tray 2.
024-954	Load the paper to the bypass tray.
024-958	The paper size specified for the job does not match the size of paper loaded in the bypass tray. Load the correct size of paper in the bypass tray.
024-959	The paper size specified for the job does not match the size of paper loaded in the bypass tray. Load the correct size of paper in the Tray 1.
024-960	The paper size specified for the job does not match the size of paper loaded in Tray 2. Load the correct size of paper in Tray 2.
024-965	The paper specified for printing is not loaded in the tray.
024-966	The paper specified for printing cannot be detected. Change the settings.
024-985	The bypass tray stopped running due to an obstruction. Check that the settings of paper size, orientation and paper type are correct.
025-596	An error occurred. Contact Dell.
025-597	

## "026-001" - "026-999"

Status Code	Cause and Remedy
026-400	Connect up to two devices to the USB host port. Turn off the printer, and turn it on again.
026-402	Wait until the job finishes.
026-703	Authentication was canceled when you added a document. Authenticate when documents are added.

Status Code	Cause and Remedy
026-712	An error occurred while operating from <b>Dell Printer Configuration Web Tool</b> . Wait for a while and try the same operation again.
026-718	The combination of the specified features such as Paper Size, Paper Tray, 2 sided printing, and Output Tray is incompatible.
026-720	The available space of the USB memory device is not sufficient. Confirm the amount of available space.
026-722	Initialize the USB memory device on a computer with the following file format, and then execute the operation again. <ul style="list-style-type: none"> <li>Supported file formats: FAT12, FAT16 (FAT), FAT32</li> </ul>  <b>NOTE:</b> <ul style="list-style-type: none"> <li>NTFS is not supported.</li> <li>A software-encrypted USB memory device is not supported.</li> </ul> Contact customer support if this failure is repeated.
026-726	Modify the machine configuration information in the print driver screen to match the actual machine configuration.
026-727	<ul style="list-style-type: none"> <li>Remove unusable characters from the path name of the file location.</li> <li>Set the path in the range of 1 to 255 bytes.</li> </ul>
026-730	Check whether the paper guides are correctly positioned in the tray, and then try again.
026-731	Correct the PIN number specified in the PJI command, and try again.
026-732	Correct the print count value specified in the PJI command, and try again.
026-733	Correct the password specified in the PJI command, and try again.
026-734	Wait more than 1 minute after user operation is completed, and then start downloading.

## "027-001" - "032-999"

Status Code	Cause and Remedy
027-442	Change the <b>Self-Assigned Address 1:</b> for IPv6 or the DHCPv6 address on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
027-443	Change the <b>Self-Assigned Address 2:</b> for IPv6 on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
027-444	Change the <b>Self-Assigned Address 3:</b> for IPv6 on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
027-445	The manually configured IPv6 address of the printer is not valid. Change the IPv6 address of printer.
027-446	Change the <b>Manual Address</b> for IPv6 on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
027-447	Change the <b>IPv6 Link-Local Address:</b> for IPv6 on the machine, or the IP address of IPv6 on the network device, to remove the duplication of addresses.
027-452	IPv4 address duplication on the network. Change the IPv4 address of the printer or the device on the network.
027-701	Connect the network cable securely if the cable is disconnected.
027-720	Unable to find the server of an application interface destination. Confirm the DNS server address. Or, check whether the computer on which the application is installed has been registered on the DNS server.
027-721	The application does not exist. Check whether the application is operating correctly.
027-722	The jobs timed out during connection to the application. Try the same operation. Contact customer support if this failure is repeated.



Status Code	Cause and Remedy
027-724	The application could not be accessed. Check whether the application is operating correctly. If it is operating correctly, confirm the log.
027-725	A job operation failed using the application. Check whether the application is operating correctly. If it is operating correctly, confirm the log. If it is not operating, confirm the network environment.
027-726	The status of the application is unknown. Check whether the application is operating correctly. If it is operating correctly, confirm the log.
027-727	Illegal parameter. Check the job flow settings to see if the parameters are correct.
027-728	The number of files that are to be sent to external services exceeded the maximum number.
027-730	Increase the number of pages allowed for the Split Send feature, or reduce the number of the document pages.
027-735	Enable the SSL setting, or specify HTTP for the transfer protocol.
027-736	The server certificate verification feature of the machine is disabled when the server certificate verification is required. Enable the server certificate validation. Or, disable the server certificate validation for data transfer.
027-751	Confirm the settings of the job flow.
027-752	<ul style="list-style-type: none"> <li>• Do not link folders to job flows that have mandatory entry fields.</li> <li>• Set the default values to the mandatory fields of the job flow.</li> </ul>
027-757	Check the connection between the machine and the server, and between the machine and the DNS server using the ping or traceroute command. Import the CA certificate and intermediate certificate reliable to the SSL server to the machine. Check whether or not the machine communicates via the SSL proxy server which enables you to confirm the SSL communication. When the machine uses the server, set the machine not to use the SSL proxy server. Check the encryption method supported on the machine. Set the available encryption method to the SSL server setting. Import the SSL client certificate and configure the setting to use the certificate. Check the date and time registered on the machine is precise. If they are not, correct it.
027-758	The LDAP server sent back RFC2251 Result Message No "49" (invalid credentials). Make sure the login name and password are correctly set in the LDAP server/directory settings. Contact customer support if this failure is repeated.
027-759	The connection to the LDAP server specified in the LDAP server/directory settings failed. Make sure the network settings. Contact customer support if this failure is repeated.
027-760	An invalid parameter was specified by XJT command.
027-761	When multiple documents are to be printed, reduce the number of documents, and then execute the operation again.
027-763	The machine failed to verify the user information against the remote accounting server. <ul style="list-style-type: none"> <li>• Check whether the remote accounting server is operating properly.</li> <li>• Check whether there is no network failure.</li> <li>• Connect the network cable securely.</li> <li>• Confirm the settings on the machine.</li> </ul>
027-765	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is registered in the DNS server.</li> <li>• Check the connection to the DNS server.</li> <li>• Check the setting of the DNS server address.</li> </ul>

Status Code	Cause and Remedy
027-766	<ul style="list-style-type: none"> <li>• Check if the Proxy server is registered in the DNS server.</li> <li>• Check the connection to the DNS server.</li> <li>• Check the setting of the DNS server address.</li> </ul>
027-767	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Check the SSL settings in the destination WebDAV server.</li> <li>• Check the name of the destination WebDAV server.</li> <li>• Check the path to the destination in the WebDAV server.</li> </ul>
027-768	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Check if the SSL server certificate for the destination WebDAV server is registered in the printer.</li> <li>• Check if the SSL server certificate for the destination WebDAV server is not expired, or is not in the certificate revocation list. Check the time setting in the printer. Check the certificate path for the SSL server certificate, and import the CA certificate.</li> <li>• If a certificate is not registered in the destination WebDAV server, disable certificate validation.</li> </ul>
027-769	<ul style="list-style-type: none"> <li>• Check the network cable connection.</li> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Check the network interface.</li> </ul>
027-770	The print job has a problem. Try the same operation. Contact customer support if this failure is repeated.
027-771	The memory space is full. Delete unnecessary data from the server.
027-780	Network interface error. Check the network interface.
027-782	Check the re-direct setting in the WebDAV server to see if a re-direct loop occurs.
027-783	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Check the login user name and password.</li> <li>• Check the name of the destination WebDAV server.</li> <li>• Check the path to the destination in the WebDAV server.</li> </ul>
027-784	Check the user name and password for the proxy server set in the printer.
027-785	WebDAV server connection timeout. Wait for a while and try the same operation again.
027-786	Consult your network administrator if this failure is repeated.
027-787	Select an option other than <b>Do Not Save</b> for the file name duplication setting.
027-788	<ul style="list-style-type: none"> <li>• Check if the specified drive and directory in the destination WebDAV server is accessible.</li> <li>• Try the same operation.</li> </ul> Contact customer support if this failure is repeated.
027-789	<ul style="list-style-type: none"> <li>• Share the destination file and folder to permit reading and writing.</li> <li>• Check the path to the destination.</li> </ul>
027-790	Check if the specified directory exists in the destination WebDAV server.
027-791	<ul style="list-style-type: none"> <li>• Check if the destination is a WebDAV server.</li> <li>• Share the destination file and folder to permit reading and writing.</li> <li>• Check the path to the destination.</li> </ul>
027-792	<ul style="list-style-type: none"> <li>• Check the path to the destination.</li> </ul>
027-793	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Try the same operation.</li> </ul> Contact customer support if this failure is repeated.
027-794	<ul style="list-style-type: none"> <li>• Check the WebDAV server is working correctly.</li> <li>• Check if the destination WebDAV server is accessible from a computer.</li> </ul>
027-795	<ul style="list-style-type: none"> <li>• Check if the destination is a WebDAV server.</li> <li>• Share the destination file and folder to permit reading and writing.</li> </ul>
027-798	The specified document does not exist. Specify an existing document and try again.
027-799	Make sure that there is available space in the server.

Status Code	Cause and Remedy
028-910	Replace the fusing unit.
028-986	The paper size specified for the job does not match the size of paper loaded in the tray. Load the correct size of paper in the tray, and then try the same operation.
028-987	The paper specified for printing cannot be detected. Change the settings.
029-700	<ul style="list-style-type: none"> <li>• Check the WebDAV server is working correctly.</li> <li>• Check if the destination WebDAV server is accessible from a computer.</li> </ul>
029-701	<ul style="list-style-type: none"> <li>• Check if the destination WebDAV server is accessible from a computer.</li> <li>• Check the server settings.</li> </ul> Contact customer support if this failure is repeated.
029-702	Try the same operation. Contact customer support if this failure is repeated.
029-704	Wi-Fi error. The format of the proxy auto-config (PAC) file is invalid. Ask your network administrator to see if the format is available for JavaScript, and if the file size is 64 KB or less. Contact customer support if this failure is repeated.
029-705	Wi-Fi error. A timeout error occurred when the printer obtains a proxy auto-config (PAC) file. Check and correct the following: <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> <li>• DNS server address configuration</li> </ul> If the failure persists, the network or the HTTP server may have a problem. Consult your network administrator. Contact customer support if this failure is repeated.
029-706	Wi-Fi error. A connection error occurred when the printer obtains a proxy auto-config (PAC) file. Check and correct the following: <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> <li>• DNS server address configuration</li> </ul> If the failure persists, the network or the HTTP server may have a problem. Consult your network administrator. Contact customer support if this failure is repeated.
029-707	Wi-Fi error. An error occurred when the printer obtains a proxy auto-config (PAC) file. The file was not found. When <b>Setup in Enable Proxy Server</b> is set to <b>Manual</b> , check the file location setting. When <b>Setup in Enable Proxy Server</b> is set to <b>Configuration Script</b> , the file location setting on the DHCP server may have a problem. Consult your network administrator. If the file location setting is correct, check on the HTTP server to see if the PAC file exists. Contact customer support if this failure is repeated.
029-708	Wi-Fi error. The proxy auto-config (PAC) file is invalid. When <b>Setup in Enable Proxy Server</b> is set to <b>Manual</b> , check the file location setting. When <b>Setup in Enable Proxy Server</b> is set to <b>Configuration Script</b> , the file location setting on the DHCP server may have a problem. Consult your network administrator. Contact customer support if this failure is repeated.
029-709	Wi-Fi error. A timeout error occurred when the printer obtains the URL of a proxy auto-config (PAC) file. Check and correct the following: <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> </ul> If the failure persists, the network or the DHCP server may have a problem. Consult your network administrator. Contact customer support if this failure is repeated.

Status Code	Cause and Remedy
029-710	<p>Wi-Fi error. An error occurred when the printer obtains a proxy auto-config (PAC) file. The file was not found. Check with your network administrator to see if the URL of the PAC file is registered in the DHCP server.</p> <p>Contact customer support if this failure is repeated.</p>
029-711	<p>Ethernet 1 error. The proxy auto-config (PAC) file is invalid.</p> <p>Ask your network administrator to see if the format is appropriate for JavaScript, and if the file size is 64 KB or less.</p> <p>Contact customer support if this failure is repeated.</p>
029-712	<p>Ethernet 1 error. A timeout error occurred when the printer obtains a proxy auto-config (PAC) file. Check and correct the following:</p> <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> <li>• DNS server address configuration</li> </ul> <p>If the failure persists, the network or the HTTP server may have a problem. Consult your network administrator.</p> <p>Contact customer support if this failure is repeated.</p>
029-713	<p>Ethernet 1 error. A connection error occurred when the printer obtains a proxy auto-config (PAC) file. Check and correct the following:</p> <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> <li>• DNS server address configuration</li> </ul> <p>If the failure persists, the network or the HTTP server may have a problem. Consult your network administrator.</p> <p>Contact customer support if this failure is repeated.</p>
029-714	<p>Ethernet 1 error. An error occurred when the printer obtains a proxy auto-config (PAC) file. When <b>Setup</b> in <b>Enable Proxy Server</b> is set to <b>Manual</b>, check the location setting. When <b>Setup</b> in <b>Enable Proxy Server</b> is set to <b>Configuration Script</b>, the location setting on the DHCP server may have a problem. Consult your network administrator.</p> <p>If the location setting is correct, check on the HTTP server to see if the PAC file exists.</p> <p>Contact customer support if this failure is repeated.</p>
029-715	<p>Ethernet 1 error. The proxy auto-config (PAC) file is invalid. When <b>Setup</b> in <b>Enable Proxy Server</b> is set to <b>Manual</b>, check the location setting. When <b>Setup</b> in <b>Enable Proxy Server</b> is set to <b>Configuration Script</b>, the location setting on the DHCP server may have a problem. Consult your network administrator.</p> <p>Contact customer support if this failure is repeated.</p>
029-716	<p>Ethernet 1 error. A timeout error occurred when the printer obtains a proxy auto-config (PAC) file. Check and correct the following:</p> <ul style="list-style-type: none"> <li>• LAN cable connection</li> <li>• Default gateway configuration</li> <li>• Subnet mask configuration</li> </ul> <p>If the failure persists, the network or the DHCP server may have a problem. Consult your network administrator.</p> <p>Contact customer support if this failure is repeated.</p>
029-717	<p>Ethernet 1 error. An error occurred when the printer obtains a proxy auto-config (PAC) file. The file was not found. The PAC file location setting on the DHCP server may have a problem. Consult your network administrator.</p> <p>Contact customer support if this failure is repeated.</p>
029-718	<p>A timeout error occurred when the printer attempts to access the server for the <b>App Platform</b> service. Check the network connection status. Wait for a while, and try the same operation.</p>
029-719	<p><b>App Platform</b> service error. The data does not exist on the server, or the printer could not access the server. Check the settings on the server.</p>

Status Code	Cause and Remedy
029-720	<b>App Platform</b> service error. The printer could not access the file server. Check the proxy server settings, and the user name and password to be used for accessing the server.
029-721	Proxy connection error for the <b>App Platform</b> service. The printer could not access the proxy server. Check the settings of the proxy server and the DNS server.
029-722	Network error for the <b>App Platform</b> service. The printer could not access the file server or the proxy server. Check the settings of those servers and connection status.
029-723	SSL error for the <b>App Platform</b> service. The printer could not access the server. Check the access privilege and the SSL settings.
029-724	An error occurred during data reception. Turn off the printer and then on, and try the same operation. Consult your system administrator if this failure is repeated.
029-725	The printer could not access the file server. Check the settings of the DNS and file server settings.
029-726	An error occurred inside the printer. If two or more jobs are in progress, wait until the jobs are complete, turn the printer off and on, and then try the same operation. Consult your system administrator if this error occurs again. Contact customer support if this failure is repeated.
029-727	An error occurred inside the printer. Turn the printer off and on, and then try the same operation. Consult your system administrator if the error occurs again.

## "041-001" - "044-999"

Status Code	Cause and Remedy
041-310	An error occurred in the machine.
041-318	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
041-321	
041-322	
041-340	
042-325	
042-348	
042-398	
045-310	
045-311	

## "058-001" - "061-999"

Status Code	Cause and Remedy
058-310	An error occurred in the machine.
058-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
058-312	
059-321	
059-326	
060-310	
061-320	
061-340	
061-346	
061-348	

## "071-001" - "076-999"

Status Code	Cause and Remedy
071-101	Remove the jammed paper, and try again.
072-101	
072-310	Tray 2 malfunction
072-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
075-100	Remove the jammed paper, and try again.
075-911	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

## "077-001" - "077-999"

Status Code	Cause and Remedy
077-101	Remove the jammed paper, and try again.
077-104	
077-119	
077-123	
077-300	Close the front cover.
077-302	Close the right side cover.
077-322	An error occurred in the machine.
077-323	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
077-327	Tray modules exceeding the prescribed number or the ones for other machine types are connected. Remove unnecessary tray modules.
077-909	Remove the jammed paper, and try again.
077-911	Remove the jammed paper, and check that the paper size, paper orientation and paper type settings are correct.
077-968	The paper type specified for the job does not match the type of paper loaded in the tray. Load the correct type of paper in the tray, and then try the same operation.

## "081-001" - "091-999"

Status Code	Cause and Remedy
091-300	Close the rear cover.
091-312	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
091-400	The waste toner box is close to full. Prepare a new waste toner box.
091-401	Drum cartridges need to be replaced soon. Prepare new drum cartridges.
091-402	Replace the drum cartridges.
091-405	The waste toner box is close to full. Prepare a new waste toner box.
091-411	Drum cartridges need to be replaced soon. Prepare new drum cartridges.
091-421	
091-431	
091-444	Drum cartridges need to be replaced soon. Order new drum cartridges to prepare replacement.

Status Code	Cause and Remedy
091-445	Drum cartridges need to be replaced very soon. Replace the drum cartridges.
091-446	Drum cartridges need to be replaced. Replace the drum cartridges.
091-480	Replace the drum cartridges.
091-481	
091-482	
091-911	Replace the waste toner box.
091-913	Replace the drum cartridges.
091-914	Ensure that the drum cartridge (black) is installed correctly.
091-915	Replace the drum cartridges.
091-916	Ensure that the drum cartridge (black) is installed correctly.
091-917	Ensure that the drum cartridge (yellow) is installed correctly.
091-918	Ensure that the drum cartridge (magenta) is installed correctly.
091-919	Ensure that the drum cartridge (cyan) is installed correctly.
091-920	Replace the drum cartridges.
091-921	Ensure that the drum cartridge (black) is installed correctly.
091-922	Replace the drum cartridges.
091-923	
091-924	
091-925	
091-926	
091-927	Ensure that the drum cartridge (yellow) is installed correctly.
091-928	Ensure that the drum cartridge (magenta) is installed correctly.
091-929	Ensure that the drum cartridge (cyan) is installed correctly.

## "092-001" - "092-999"

Status Code	Cause and Remedy
092-316	Temperature sensor detected abnormality. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
092-318	Density of Yellow color is low. Turn off the printer, and turn it on again. If the same message is displayed again, pull out the drum and toner cartridges of that color, and then insert them again. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
092-319	Density of Magenta color is low. Turn off the printer, and turn it on again. If the same message is displayed again, pull out the drum and toner cartridges of that color, and then insert them again. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
092-320	Density of Cyan color is low. Turn off the printer, and turn it on again. If the same message is displayed again, pull out the drum and toner cartridges of that color, and then insert them again. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
092-321	Density of Black color is low. Turn off the printer, and turn it on again. If the same message is displayed again, pull out the drum and toner cartridges of that color, and then insert them again. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

## "093-001" - "093-999"

Status Code	Cause and Remedy
093-320	Turn off the printer and turn it on again.
093-339	Turn off the printer and turn it on again. Contact customer support if this failure is repeated.
093-406	The toner cartridge (black) needs to be replaced soon. Prepare a new toner cartridge (black).
093-407	The toner cartridge (yellow) needs to be replaced soon. Prepare a new toner cartridge (yellow).
093-408	The toner cartridge (magenta) needs to be replaced soon. Prepare a new toner cartridge (magenta).
093-409	The toner cartridge (cyan) needs to be replaced soon. Prepare a new toner cartridge (cyan).
093-444	The toner cartridge (black) is empty. Replace the toner cartridge with a new one.
093-445	
093-480	The toner cartridge (yellow) is empty. Replace the toner cartridge with a new one.
093-481	The toner cartridge (magenta) is empty. Replace the toner cartridge with a new one.
093-482	The toner cartridge (cyan) is empty. Replace the toner cartridge with a new one.
093-912	The toner cartridge (black) is empty. Replace the toner cartridge with a new one.
093-913	Ensure that the toner cartridge (yellow) is installed correctly.
093-914	Ensure that the toner cartridge (magenta) is installed correctly.
093-915	Ensure that the toner cartridge (cyan) is installed correctly.
093-916	Ensure that the toner cartridge (black) is installed correctly.
093-924	
093-925	
093-926	
093-927	Ensure that the toner cartridge (yellow) is installed correctly.
093-928	Ensure that the toner cartridge (magenta) is installed correctly.
093-929	Ensure that the toner cartridge (cyan) is installed correctly.
093-933	Ensure that the toner cartridge (yellow) is installed correctly.
093-934	Ensure that the toner cartridge (magenta) is installed correctly.
093-935	Ensure that the toner cartridge (cyan) is installed correctly.
093-937	Ensure that the toner cartridge (yellow) is installed correctly.
093-938	Ensure that the toner cartridge (magenta) is installed correctly.
093-939	Ensure that the toner cartridge (cyan) is installed correctly.

## "094-001" - "099-999"

Status Code	Cause and Remedy
094-310	An error occurred in the machine.
094-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
094-319	Clean the CTD sensor. After the cleaning, turn off the printer, and turn it on again. Contact customer support if this failure is repeated.



Status Code	Cause and Remedy
094-325	An error occurred in the machine.
094-326	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
094-417	
094-420	
094-911	Ensure that the transfer belt unit is installed correctly.
095-912	Replace the drum cartridges.
099-396	An error occurred in the machine.
099-397	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
099-398	
099-399	

## "102-001" - "115-999"

Status Code	Cause and Remedy
102-311	An error occurred in the machine.
102-312	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
102-313	
102-314	
102-315	
102-316	
102-317	
102-318	
102-319	
102-356	
103-314	

## "116-001" - "116-999"

Status Code	Cause and Remedy
116-220	Failed to enter the Download mode. Contact Dell.

Status Code	Cause and Remedy
116-310	An error occurred in the machine.
116-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
116-312	
116-313	
116-314	
116-315	
116-316	
116-317	
116-318	
116-319	
116-320	
116-321	
116-322	
116-323	
116-324	
116-325	
116-328	
116-329	
116-330	
116-331	
116-334	
116-336	
116-337	
116-338	
116-339	
116-340	
116-341	
116-342	A printer system error. Contact Dell.

Status Code	Cause and Remedy
116-343	An error occurred in the machine.
116-345	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
116-348	
116-349	
116-353	
116-354	
116-355	
116-356	
116-357	
116-359	
116-360	
116-361	
116-362	
116-363	
116-364	
116-365	
116-366	
116-367	
116-368	
116-370	
116-371	
116-372	
116-373	
116-374	
116-376	
116-377	
116-378	
116-379	
116-380	
116-381	
116-382	
116-383	
116-384	
116-385	
116-387	
116-389	An error occurred in the machine. Turn off the printer, and turn it on again.
116-390	Follow the message displayed on the touch screen and initialize the memory of the machine.

Status Code	Cause and Remedy
116-391	An error occurred in the machine.
116-392	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
116-393	
116-394	
116-395	
116-396	
116-397	
116-399	
116-701	Memory space is insufficient. Remove unnecessary data to make space.
116-702	A print job was processed using a substitute font. Check the print data.
116-703	Check the print data, or increase the value for <b>PostScript Memory</b> .
116-710	The correct document size could not be judged because the receive data exceeded the HP-GL/2 spool size. Increase the size assigned to HP-GL/2 auto layout memory.
116-713	The data has been divided into several jobs because of insufficient data storage space. Delete unnecessary data from the data storage space.
116-714	An HP-GL/2 command error occurred. Check the print data.
116-719	Cancel XPIF parameters not supported by the printer.
116-720	An error occurred during print processing because of insufficient memory. Stop unnecessary ports or delete unnecessary data to free up the data storage space.
116-721	Check the time permitted for the operation for you, and try again, or consult your system administrator to change your authorization.
116-722	Consult your system administrator to change your authorization.
116-723	
116-724	
116-725	Try the same operation. Contact customer support if this failure is repeated.
116-726	Consult your system administrator to change your authorization.
116-727	
116-728	
116-738	Match the size and orientation of the paper with the form specified, and print again.
116-739	The form or logo data cannot be registered because memory for the form and logo data or memory capacity is insufficient. Delete unnecessary data, or free up the space for the form memory.
116-740	A numerical value operation error occurred because a value exceeding the value limit of the machine was used in the print data. Check the print data.
116-741	The form cannot be registered because the number of the form registration exceeds the maximum number allowed. The maximum number allowed is 2048.
116-742	The logo data cannot be registered because the number of the logo data registration exceeds the maximum number allowed. Delete unnecessary logo data.
116-743	The logo data or form cannot be registered because the memory for the form and logo data is insufficient. Increase memory.
116-746	The form specified is not registered.

Status Code	Cause and Remedy
116-747	The paper margin value is too large for the HP-GL/2 active coordinates area. Decrease the paper margin value, and then execute the operation again.
116-748	There is no plot data in the HP-GL/2 print data. Check the print data.
116-749	The job was cancelled because the specified font does not exist. Install the font, or set the print driver to replace the font.
116-750	Banner sheet tray malfunction Restore the tray to normal condition or change the Banner sheet tray.
116-751	The process has been canceled because the data storage space is full. Delete stored data from the data storage space. If the error still is not resolved, split the file and send the job again.

## "117-001" - "117-999"

Status Code	Cause and Remedy
117-312	An error occurred in the machine. Contact Dell.
117-313	An error occurred in the machine.
117-314	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
117-315	
117-316	
117-317	Wait until the printer restarts.
117-318	
117-319	An error occurred in the machine.
117-320	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
117-321	
117-322	
117-323	
117-324	
117-325	
117-326	
117-327	
117-329	
117-330	
117-331	
117-332	
117-333	
117-335	
117-336	
117-337	
117-338	
117-342	
117-343	An error occurred in the machine. Contact Dell.
117-344	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

Status Code	Cause and Remedy
117-345	An error occurred in the machine. Contact Dell.
117-347	An error occurred in the machine.
117-348	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
117-349	
117-354	
117-355	
117-356	
117-357	
117-358	
117-360	The year in the <code>Date &amp; Time</code> setting is out of the available range. Turn off the printer, and turn it on again. Change the year to a correct value.
117-364	The TPM key information is illegal. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
117-365	Wi-Fi diagnostic error. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

## "118-001" - "122-999"

Status Code	Cause and Remedy
118-310	An error occurred in the machine. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
118-311	An error occurred during software processing. Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
121-310	An error occurred in the machine. Turn off the printer, and turn it on again.
121-311	An error occurred between the machine and the device connected. Once a smart card reader is connected to the machine, the machine automatically changes the <b>Passcode Entry for Smart Card Login</b> setting to <b>On</b> . Change the setting as required.
121-314	An error occurred between the machine and the device connected.
121-316	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
121-317	
121-318	
121-322	
121-323	
121-325	The machine detects unacceptable combination. <ul style="list-style-type: none"> <li>• Smart Card authentication was enabled and Control Panel authentication was disabled when the smart card reader was connected. No measure is required.</li> <li>• When only the USB IC card reader is connected to the machine and both Smart Card and Control Panel Login are used, contact our Customer Support Center.</li> </ul>
121-327	An error occurred in the machine.
121-328	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.

## "123-001" - "126-999"

Status Code	Cause and Remedy
123-310	An error occurred in the machine.
123-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
123-312	
123-325	
123-326	
123-333	
123-343	
123-344	
123-350	
123-352	
123-353	
123-354	
123-355	
123-356	
123-357	
123-358	
123-362	
123-368	
123-369	
123-371	
123-374	
123-377	
123-379	
123-380	
123-381	
123-382	
123-383	
123-384	
123-389	
123-390	
123-392	
123-393	
123-395	
123-396	
123-397	
123-398	
123-399	

Status Code	Cause and Remedy
124-310	An error occurred in the machine.
124-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
124-312	
124-313	
124-314	
124-315	
124-316	
124-317	
124-318	
124-319	
124-320	
124-321	
124-322	
124-323	
124-324	
124-325	
124-326	
124-327	
124-328	
124-331	
124-333	
124-334	
124-335	
124-337	
124-338	
124-339	
124-340	
124-341	
124-342	
124-343	
124-344	
124-345	
124-346	
124-347	
124-348	
124-349	
124-350	
124-351	
124-352	
124-353	
124-354	
124-355	
124-356	
124-357	
124-360	



Status Code	Cause and Remedy
124-361	An error occurred in the machine.
124-362	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
124-363	
124-372	
124-373	
124-374	
124-380	
124-381	
124-382	
124-383	
124-390	
124-391	
124-392	
124-393	
125-311	

## "127-001" - "132-999"

Status Code	Cause and Remedy
127-210	A communication error occurred between the machine and the Print Server.
127-211	Disconnect the print server cable, and then securely insert the cable into the connector.
127-212	Turn off the printer, and turn it on again.
127-213	A communication error occurred between the machine and the Print Server. Update the machine and the Print Server software to the latest versions.
127-220	A communication error occurred between the machine and the Print Server.
127-221	Disconnect the print server cable, and then securely insert the cable into the connector. Turn off the printer, and turn it on again.
127-310	An error occurred in the machine.
127-311	Turn off the printer, and turn it on again. Contact customer support if this failure is repeated.
127-312	
127-313	
127-314	
127-315	
127-320	
127-353	
127-354	
127-396	
127-398	
127-399	

### NOTE:

- If you cannot resolve an error despite following the instructions described in the tables, contact Customer Support at [dell.com/contactdell](https://dell.com/contactdell).

## Other Errors

Error Message	Cause and Remedy
Power off the Device.Wait for all Control Panel lights to go out.Power on the Device. If problem persists, refer to online Knowledge Base, or contact your System Administrator.	Turn off the printer, and turn it on again. Refer to this User's Guide for details on the status code. Contact customer support if this failure is repeated.
xxx-yyy	
Completed (Error) xxx-yyy	The job was completed with an error. Refer to this User's Guide for details on the status code.

# Specifications

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## Operating System Compatibility


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Supported Operating Systems

Windows Vista  
Windows Vista 64-bit Edition  
Windows 7  
Windows 7 64-bit Edition  
Windows 8  
Windows 8 64-bit Edition  
Windows 8.1  
Windows 8.1 64-bit Edition  
Windows 10  
Windows 10 64-bit Edition  
Windows Server 2008  
Windows Server 2008 64-bit Edition  
Windows Server 2008 R2  
Windows Server 2012  
Windows Server 2012 R2  
Windows Server 2016  
Mac OS X 10.6  
Mac OS X 10.7  
OS X 10.8  
OS X 10.9  
OS X 10.10  
OS X 10.11  
macOS 10.12 Sierra  
Red Hat® Enterprise Linux® Desktop 6 (x86, x64)  
SUSE® Linux Enterprise Desktop 11 (x86, x64)  
Ubuntu 12.04 LTS

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# Power Supply

Rated voltage	110 VAC - 127 VAC		
Frequency	50/60 Hz		
Current	10 A or less		
Power consumption	Ready	54 W	
 <b>NOTE:</b> <ul style="list-style-type: none"><li>The values of the power consumption may vary depending on use conditions and environment.</li></ul>	Low Power	16 W	
	Sleep*	0.9 W	
	Offline	0.23 W	
	TEC value	1.9 kWh	

\* This condition is equivalent to Network standby mode, the power consumption in this condition is that all wired network ports are connected and all wireless network ports are activated.

# Dimensions

Height	439 mm (17.3 inches)
Width	454 mm (17.9 inches)
Depth	485 mm (19.1 inches)

# Weight

Weight (including toner cartridges and drum cartridges)	26 kg
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# Memory

Memory	2 GB
Speed	DDR3: 667 MHz

# Page Description Language (PDL)/Emulation, Operating System, and Interface

PDL/Emulations	PCL5c, PCL 6 (PCLXL 2.1), PostScript 3 (Native Adobe), XML Paper Specification, PDF v1.7, PWG Raster (for Google Cloud Print), URF (for AirPrint)
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Operating systems	Windows Vista Windows Vista 64-bit Edition Windows 7 Windows 7 64-bit Edition Windows 8 Windows 8 64-bit Edition Windows 8.1 Windows 8.1 64-bit Edition Windows 10 Windows 10 64-bit Edition Windows RT 8 Windows RT 8.1 Windows Server 2008 Windows Server 2008 64-bit Edition Windows Server 2008 R2 Windows Server 2012 R2 Windows Server 2016 Windows Cluster Server Environment (No status monitor) Mac OS X 10.7 OS X 10.8 OS X 10.9 OS X 10.10 OS X 10.11 macOS 10.12 Sierra Red Hat® Enterprise Linux® Desktop 6 (x86, x64) SUSE® Linux Enterprise Desktop 11 (x86, x64) Ubuntu 12.04 LTS
Interfaces (front)	USB 2.0 host port (for the Print from USB feature)
Interfaces (rear)	Optional wireless network: IEEE 802.11a/802.11b/802.11g/802.11n Wi-Fi Direct (up to 3 connections) 2.4 GHz/5 GHz
	USB 3.0 device port
	USB 2.0 host port
	Ethernet port (10 Base-T/100Base-TX/1000Base-T)

## Management Information Base (MIB) Compatibility

MIB is a database containing information about network devices such as adapters, bridges, routers, or computers. This information helps network administrators manage the network and analyze performance, traffic, errors, and so on. Your printer complies with standard industry MIB specifications, allowing the printer to be recognized and managed by various printer and network management software systems.

# Environment

## Operation

Temperature	10 °C - 32 °C
Relative humidity	10 % - 85 % RH (no condensation)

## Print Quality Guarantee

Temperature range	15 °C - 28 °C
Relative humidity	20 % - 70 % RH (no condensation)

## Storage





Temperature	-20 °C to 40 °C (0 °F to 104 °F)
Storage humidity range	5 % - 85 % RH (no condensation)

## Altitude

Operating	Up to 3,100 m (10,170 feet)
Storage	Up to 3,100 m (10,170 feet)

## Cables

Your interconnection cable must meet the following requirements:

	Connection type	Connection specifications and symbols
1	Ethernet	<b>10Base-T/100Base-TX/ 1000Base-T</b> 
2	USB	<b>USB 3.0/2.0</b> 
3	Phone connector	<b>PHONE</b> 
4	Wall jack connector	<b>LINE</b> 

## Print Specifications

Item	Description
Print resolution	600 dpi x 600 dpi 1200 dpi x 1200 dpi

Item	Description
Print speed	Simplex: Color 36 ppm, Black & White 36 ppm (Letter) Duplex: Color 24 ppm, Black & White 24 ppm (Letter)
Paper size	Letter SEF, Executive SEF, A6 SEF, A5 SEF, A4 SEF, B6 SEF, B5 SEF, Legal13 SEF, Legal14 SEF, Com-10 SEF, Monarch SEF, DL SEF, C5 SEF, Post Card (4 x 6 inch), Statement

## Wireless Connection Specifications

Item	Description
Connectivity technology	Wireless
Compliant standards	IEEE 802.11a, 802.11b, 802.11g, and 802.11n
Bandwidth	IEEE 802.11n, 802.11g and 802.11b: 2.4 GHz IEEE 802.11n and 802.11a: 5 GHz
Data transfer rate	IEEE 802.11n: 72 Mbps IEEE 802.11g and 802.11a: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps IEEE 802.11b: 11, 5.5, 2, and 1 Mbps
Security	64 (40-bit key)/128 (104-bit key) WEP, WPA- PSK (TKIP, AES), WPA2-PSK (AES), WPA-Enterprise (TKIP, AES) <sup>*1</sup> , WPA2-Enterprise (AES) <sup>*1</sup>
Wi-Fi Protected Setup (WPS) <sup>*2</sup>	Push-Button Configuration (PBC), Personal Identification Number (PIN)
Wireless mode	Infrastructure, Ad-hoc, Wi-Fi Direct

<sup>\*1</sup> EAP method supports PEAPv0, EAP-TLS, EAP-TTLS PAP, and EAP-TTLS CHAP.

<sup>\*2</sup> WPS 2.0 compliant.





# Maintaining Your Printer

# Maintaining Your Printer

You need to complete certain tasks to maintain optimum print quality.

## Determining the Status of Supplies

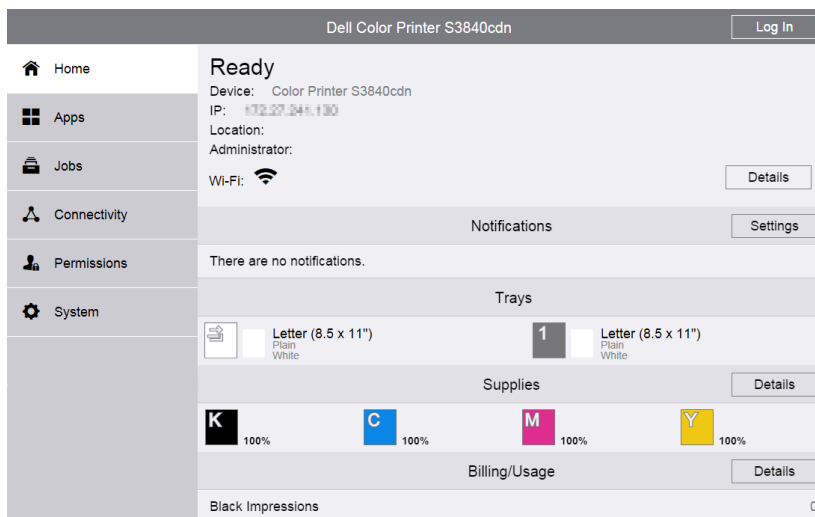
If the printer is connected to the network, **Dell Printer Configuration Web Tool** can provide instant feedback on remaining toner levels. Enter the printer's IP address in your web browser to view this information. You can also set the printer to send you an e-mail alert when the printer needs supplies.

On the touch panel screen, you can also confirm the following:

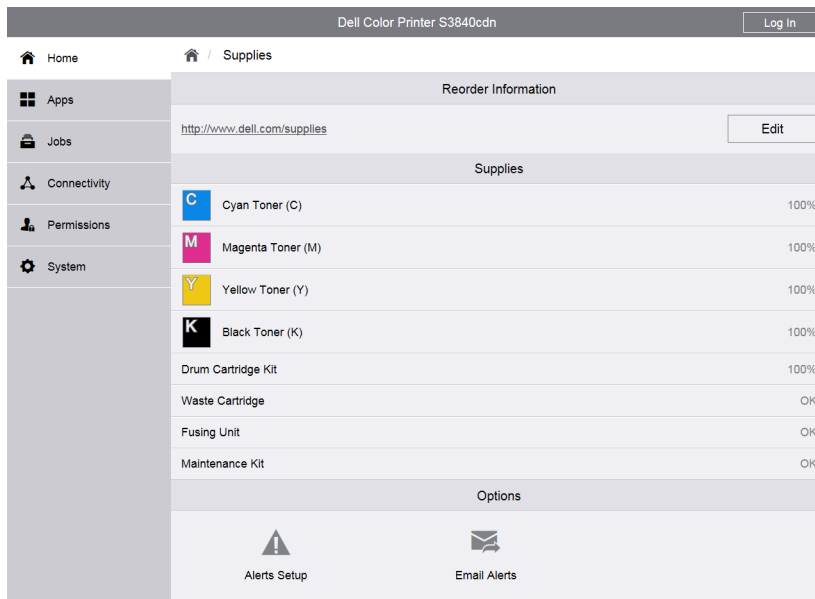
- Any supply or maintenance items that require attention replacing.
- Amount of toner remaining in the toner cartridge.

### To set up e-mail alerts:

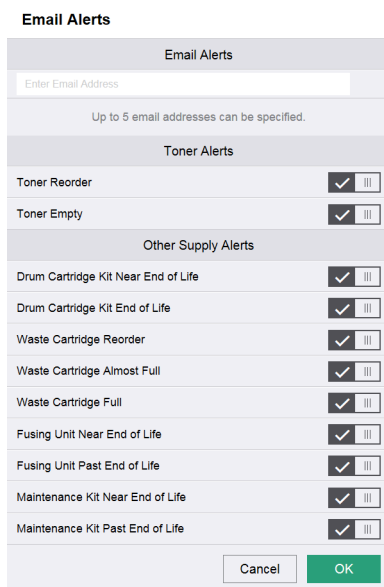
- 1 Launch the **Dell Printer Configuration Web Tool**. See "Starting the Dell Printer Configuration Web Tool".
- 2 Click **Details** in the **Supplies** section of the **Home** screen.



3 Click **Email Alerts** in the **Options** section of the **Supplies** screen.



4 Enter your or key operator's e-mail address in the **Email Alerts** text box.



5 Click **OK**.

# Conserving Supplies

You can change several settings in your printer driver to conserve toner cartridge and paper.

Supply	Setting	Function
Print media	<b>Multiple Up</b> in the <b>Layout</b> tab	The printer prints two or more pages on one side of a sheet.
Print media	<b>Duplex</b> in the <b>General</b> tab	The printer prints on both sides of a sheet of paper.

# Ordering Supplies

You can order consumables (toner cartridges, drum cartridges, and waste toner box) online at [www.dell.com/supplies](http://www.dell.com/supplies).

# Storing Print Media

To avoid potential paper feeding problems and uneven print quality, there are several things you can do:

- To achieve the best possible print quality, store print media in an environment where the temperature is approximately 21 °C (70 °F) and the relative humidity is 40 %.
- Store cartons of print media on a pallet or shelf, rather than directly on the floor.
- If you store individual packages of print media out of the original carton, ensure that they rest on a flat surface so the edges do not buckle or curl.
- Do not place anything on top of the print media packages.

# Storing Consumables

Store consumables in their original packaging until you need to use them. Do not store consumables in:

- Temperatures greater than 40 °C (104 °F).
- An environment with extreme changes in humidity or temperature.
- Direct sunlight.
- Dusty places.
- A car for a long period of time.
- An environment where corrosive gases are present.
- A humid environment.

# Replacing the Toner Cartridges



**WARNING:**

- Before performing any of the following procedures, read and follow the safety instructions in the *Important Information*.

Dell toner cartridges are available only through Dell. You can order cartridges online at [www.dell.com/supplies](http://www.dell.com/supplies).

It is recommended to use Dell toner cartridges for your printer. Dell does not provide warranty coverage for problems caused by using accessories, parts, or components not supplied by Dell.

**⚠ WARNING:**

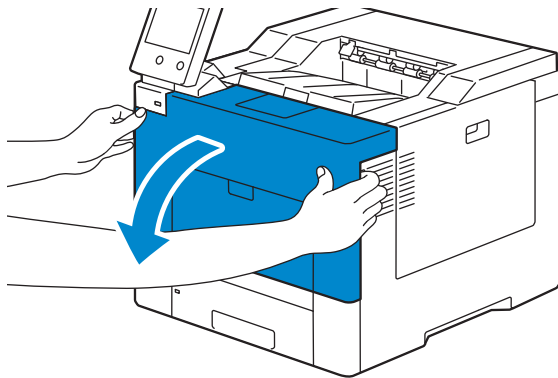
- Never throw a toner cartridge into an open flame. Remaining toner in the cartridge may catch fire and cause burn injuries or explosion.
- Never use a vacuum cleaner for spilled toner and residual toner in this product, toner cartridge or toner container. It may catch fire by electric sparks inside a vacuum cleaner and cause explosion. Use a broom or a wet cloth to wipe off the spills. If you spill a large volume of toner, contact Dell.
- Do not shake the used toner cartridge. This may cause toner spills.

## Removing the Toner Cartridge

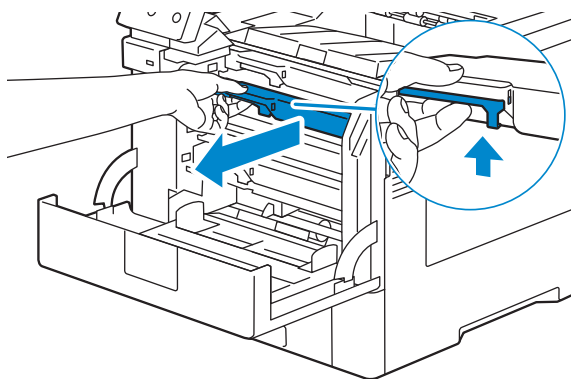
**✍ NOTE:**

- Ensure that you remove all the paper from the bypass tray and close the bypass tray cover before removing the toner cartridge.

- 1 Grasp the grips on both sides of the front cover, and then pull it down to open.



- 2 Grasp the handle on the toner cartridge that you want to replace, and then pull it out.



**⚠ WARNING:**

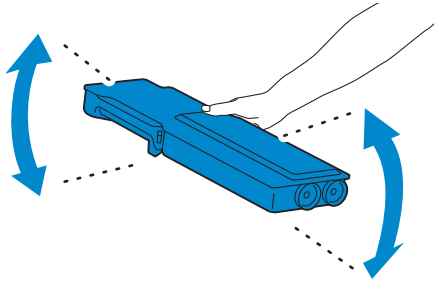
- Do not shake the toner cartridge as it may cause toner spills.
- Never throw a toner cartridge into an open flame. Remaining toner in the cartridge may catch fire and cause burn injuries or explosion.

**✍ NOTE:**

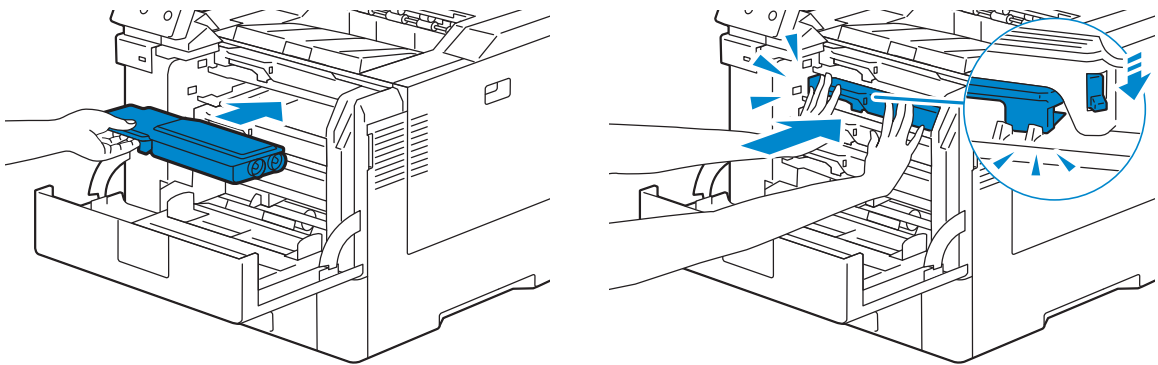
- Slide out the toner cartridge gently. Otherwise, toner may spill from the cartridge.

## Installing a Toner Cartridge

- 1 Unpack a new toner cartridge of the desired color.
- 2 Shake the new toner cartridge five or six times to distribute the toner evenly.



- 3 Insert the toner cartridge into the associated cartridge slot, and then push until it clicks into place.



- 4 Close the front cover.

 **NOTE:**

- If the front cover is not closed completely, a message appears and the machine will remain paused.

## Replacing the Drum Cartridges

You need to replace all drum cartridges (yellow, magenta, cyan, and black) at a time.

 **WARNING:**

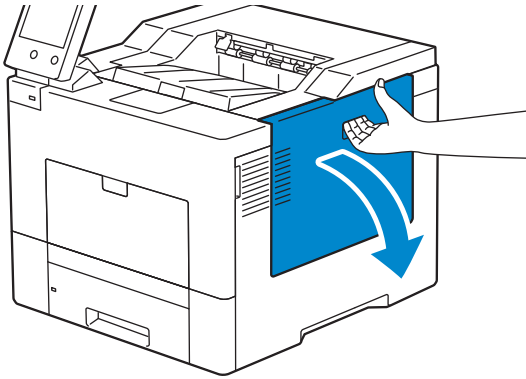
- Before performing any of the following procedures, read and follow the safety instructions in the *Important Information*.

 **CAUTION:**

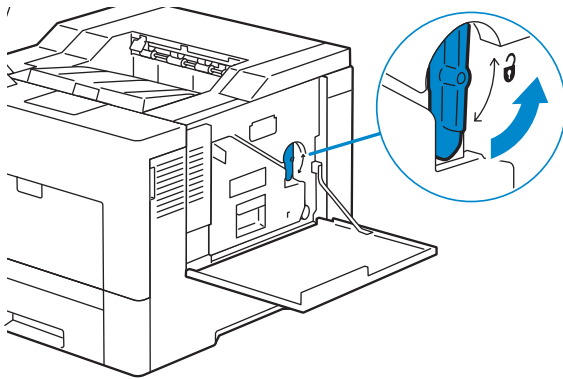
- Protect the drum cartridge against bright light. If the front side cover remains open for more than 3 minutes, print quality may deteriorate.

## Removing the Drum Cartridges

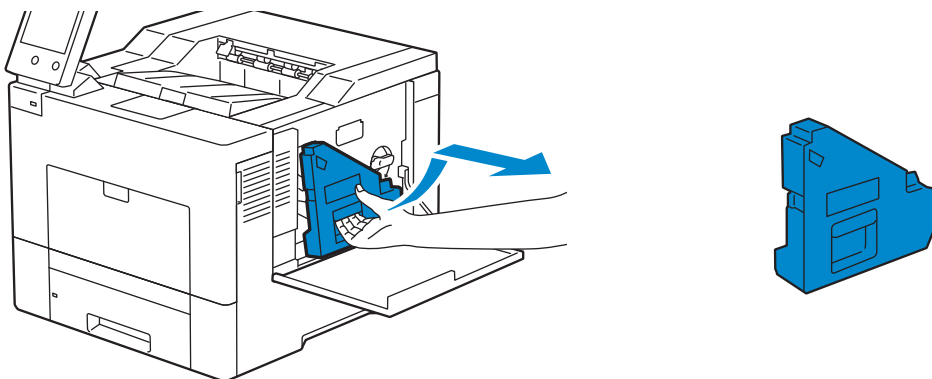
- 1 Open the right side cover.



- 2 Turn the waste toner box lock lever 90-degrees counterclockwise to unlock the waste toner box.

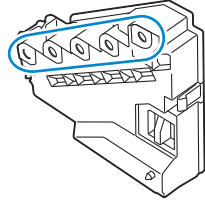


- 3 Grasp the handle on the waste toner box and pull it out making sure to hold it upright so that the waste toner does not spill out.

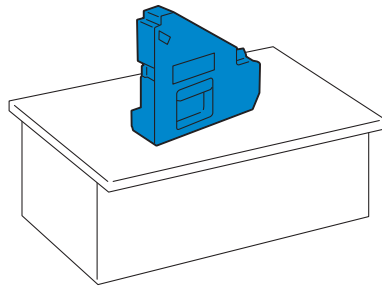


**△ CAUTION:**

- Take care not to drop the waste toner box while you are removing it.
- After removing the waste toner box, do not touch the parts shown in the illustration. Toner can dirty or stain your hands.

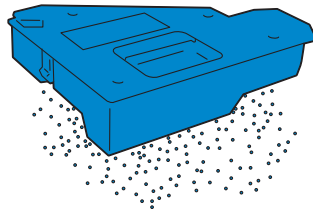


**4** Stand the removed waste toner box upright on a level surface.

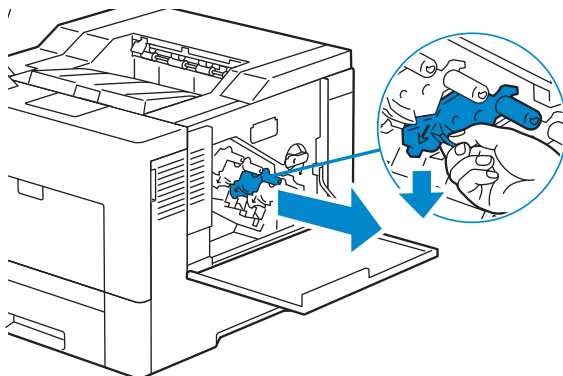


**⚠ WARNING:**

- Never lay the waste toner box on its side as this may cause its malfunction or toner spills.

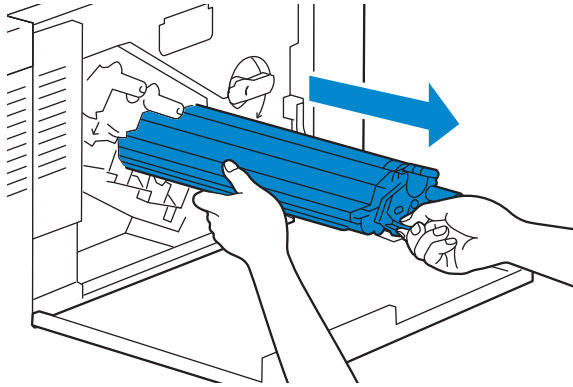


**5** Slightly pressing down the tab on the drum cartridge that you want to replace, pull it out halfway with one hand.





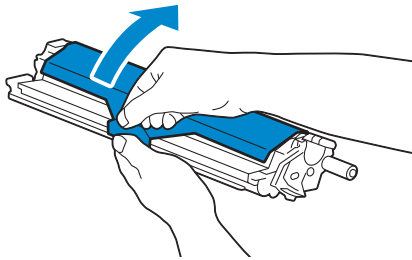
- 6 Support the drum cartridge with the other hand from underneath, and then pull it out completely.



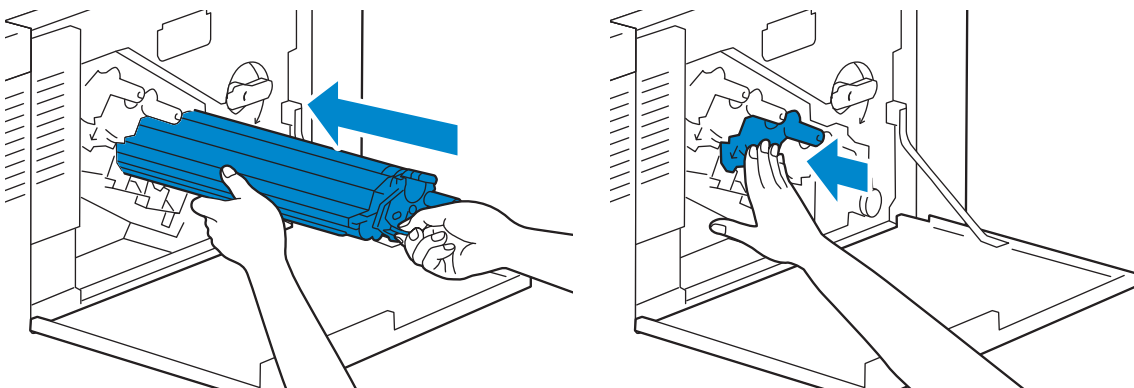
- 7 Repeat steps 5 and 6 to remove the other three cartridges.

## Installing Drum Cartridges

- 1 Unpack a new drum cartridge of the desired color.
- 2 Remove the orange protective cover from the drum cartridge.

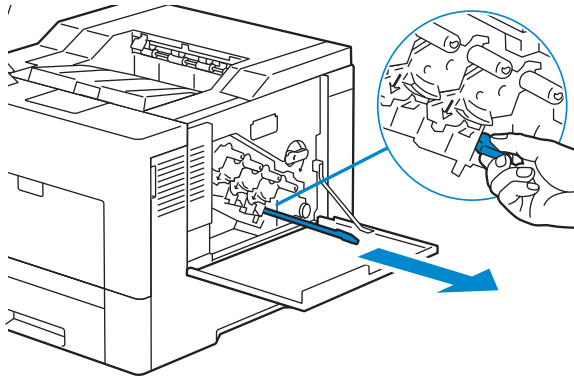


- 3 Insert the drum cartridge into the associated cartridge slot, and then push until it stops.

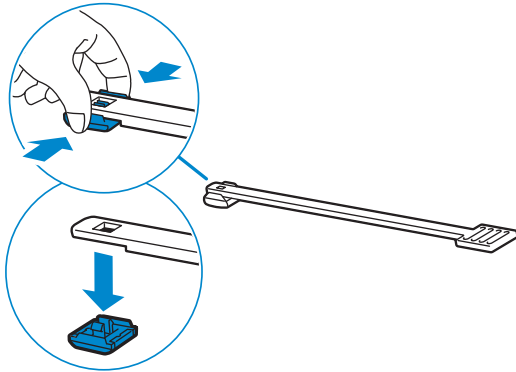


- 4 Repeat steps 1 to 3 to insert the other three cartridges.

**5** Remove the cleaning rod from inside the printer.

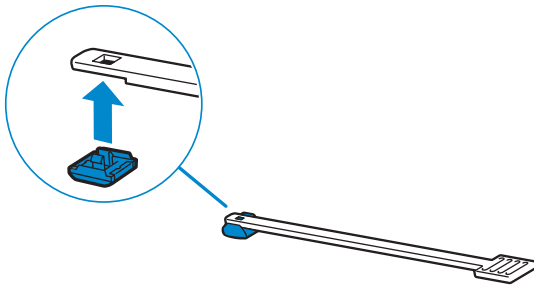


**6** Remove the cleaning pad by pressing the white tabs between your thumb and index finger.

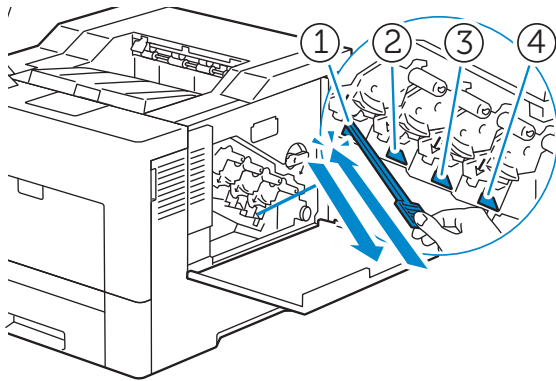


**7** Unpack a new cleaning pad.

**8** Attach the new cleaning pad to the cleaning rod.



- 9 Insert the cleaning rod fully into one of the four holes until it clicks into the interior of the printer as illustrated below, and then pull it out.

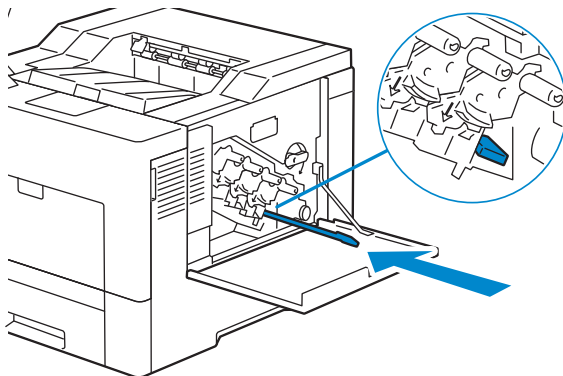


**NOTE:**

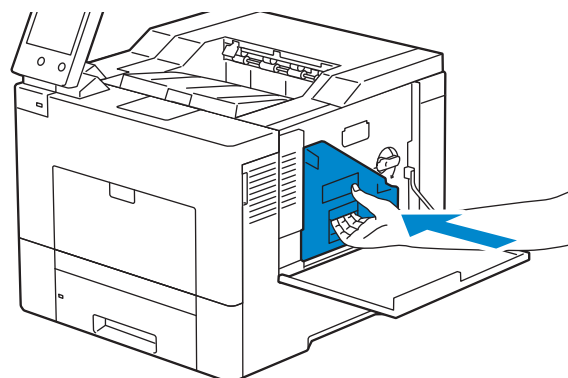
- This cleaning step prevents deterioration of printing quality. See "Cleaning the Raster Optical Scanner (ROS) Window".

- 10 Repeat step 9 also on the other three holes. One time insertion is enough for each hole.

- 11 Return the cleaning rod to its original location.



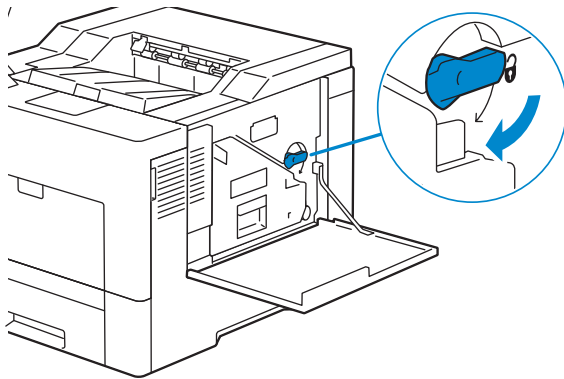
- 12 Reinsert the removed waste toner box.



**CAUTION:**

- If the waste toner box does not fit into place properly, make sure that the drum cartridge is fully inserted in the previous step.

- 13 Turn the waste toner box lock lever 90-degrees clockwise to lock the waste toner box.



- 14 Close the right side cover.

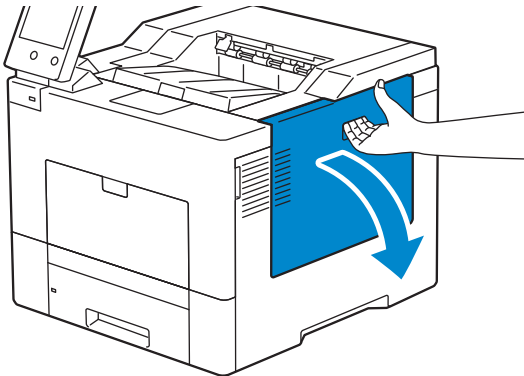
## Replacing the Waste Toner Box

**⚠ WARNING:**

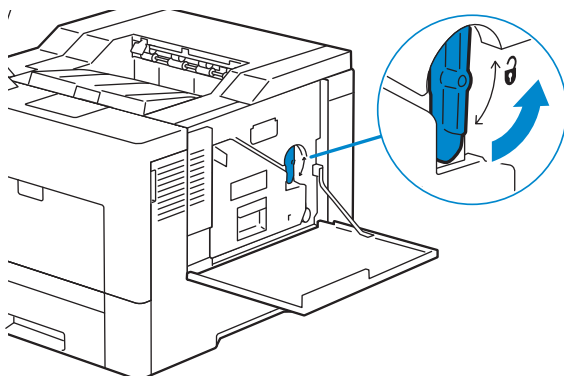
- Before performing any of the following procedures, read and follow the safety instructions in the *Important Information*.

## Removing the Waste Toner Box

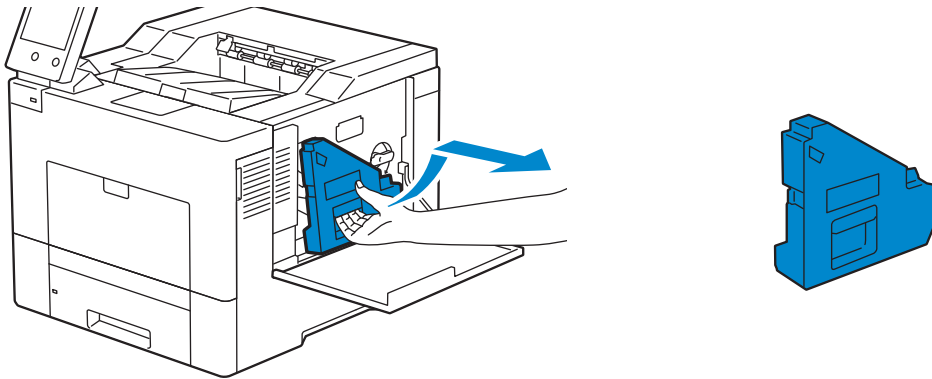
- 1 Open the right side cover.



- 2 Turn the waste toner box lock lever 90-degrees counterclockwise to unlock the waste toner box.

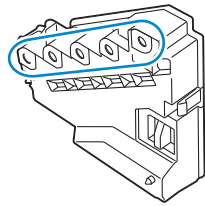


- 3 Grasp the handle on the waste toner box and pull it out making sure to hold it upright so that the waste toner does not spill out.



**CAUTION:**

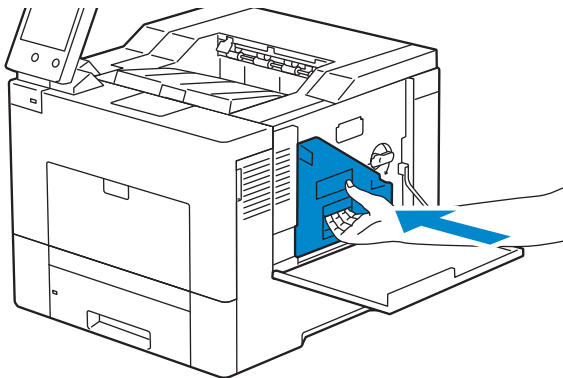
- Take care not to drop the waste toner box while you are removing it.
- After removing the waste toner box, do not touch the parts shown in the illustration. Toner can dirty or stain your hands.



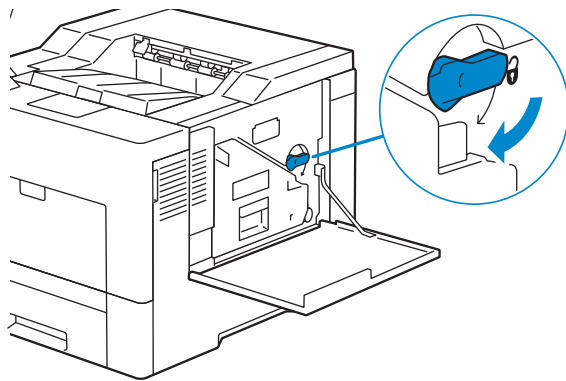
- 4 Insert the used waste toner box into the plastic bag that came with the new waste toner box and seal the bag.

## Installing a Waste Toner Box

- 1 Unpack a new waste toner box.
- 2 Insert the waste toner box.



- 3 Turn the waste toner box lock lever 90-degrees clockwise to lock the waste toner box.



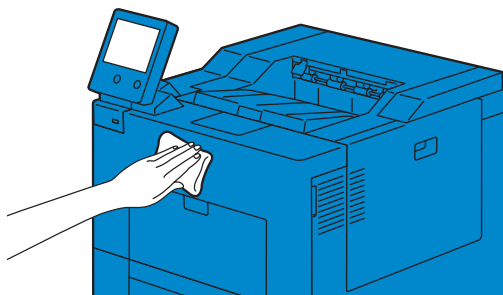
- 4 Close the right side cover.

## Cleaning the Exterior

### NOTE:

- Do not use benzene, paint thinner, or other volatile liquids or spray insect repellent on the machine as they might discolor, deform, or crack covers.
- Cleaning the machine with an excessive amount of water may cause the machine to malfunction or damage documents during printing.

- 1 Wipe the exterior with a firmly wrung soft cloth moistened with water.



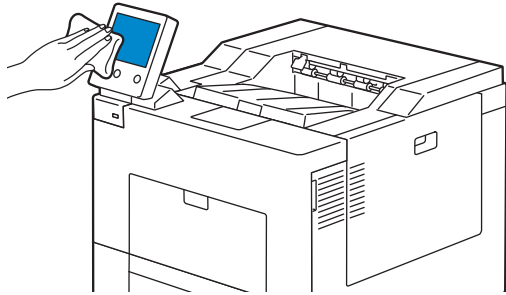
### NOTE:

- Do not use cleaning agents other than water or neutral detergent.
- If you cannot remove the dirt easily, gently wipe the machine with a soft cloth moistened with a small amount of neutral detergent.

- 2 Wipe off any excess water with a soft cloth.

## Cleaning the Touch Screen

- 1 Wipe only the LCD area with a soft cloth moistened with neutral detergent or alcohol.



### NOTE:

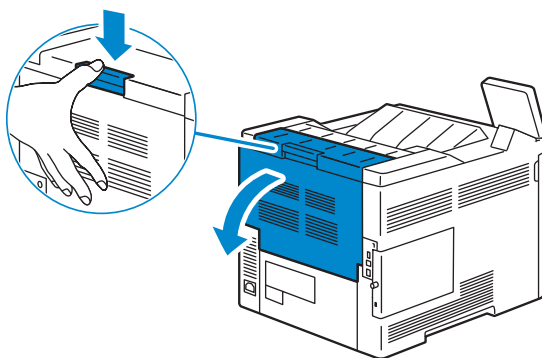
- When you moisten the cloth with neutral detergent or alcohol, do not allow the excess liquid to drip down from the cloth. If the cloth is moistened with the excess liquid, wring the cloth gently before wiping the LCD area.
- Do not use any volatile liquids on the machine such as benzene and paint thinner, or insect repellent as these may discolor, deform, or crack the machine exterior.
- Cleaning the touch screen with an excessive force may cause the screen to be damaged. Wipe the screen gently.

## Cleaning Inside the Printer

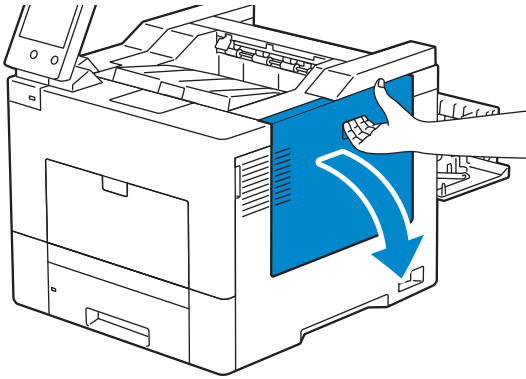
### Cleaning the CTD Sensor

Clean the Color Toner Density (CTD) sensor only when an alert for the CTD sensor is shown on the touch panel screen. See "Understanding Printer Messages".

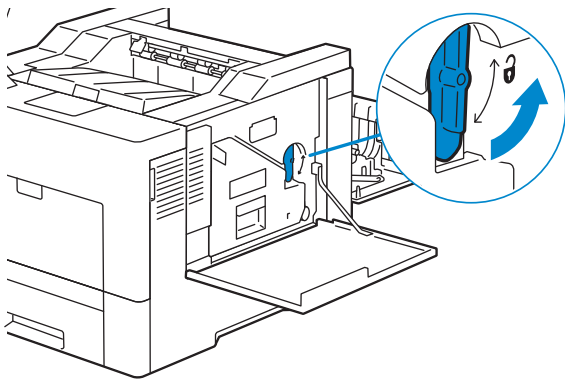
- 1 Ensure that the printer is turned off.
- 2 Push down the latch to open the rear cover.



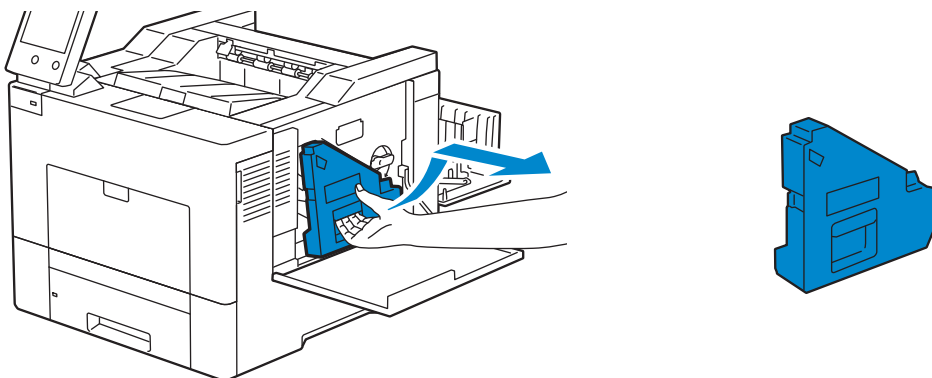
**3** Facing the front of the printer, open the right side cover.



**4** Turn the waste toner box lock lever 90-degrees counterclockwise to unlock the waste toner box.



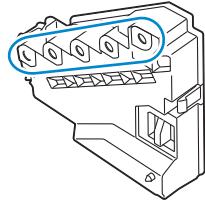
**5** Grasp the handle on the waste toner box and pull it out making sure to hold it upright so that the waste toner does not spill out.



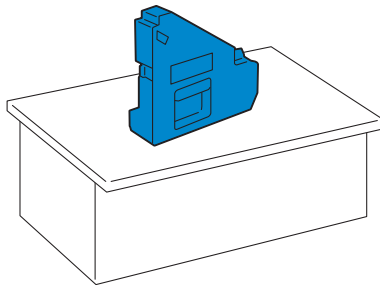


**△ CAUTION:**

- Take care not to drop the waste toner box while you are removing it.
- After removing the waste toner box, do not touch the parts shown in the illustration. Toner can dirty or stain your hands.

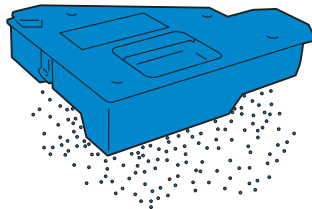


**6** Stand the removed waste toner box upright on a level surface.

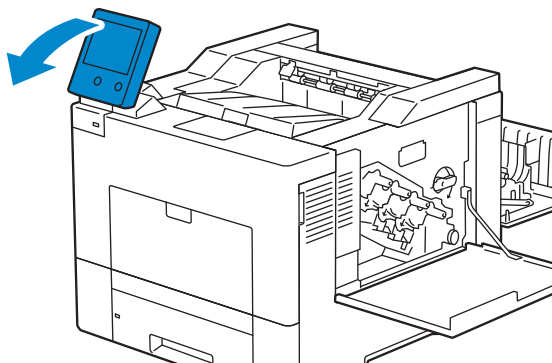


**⚠ WARNING:**

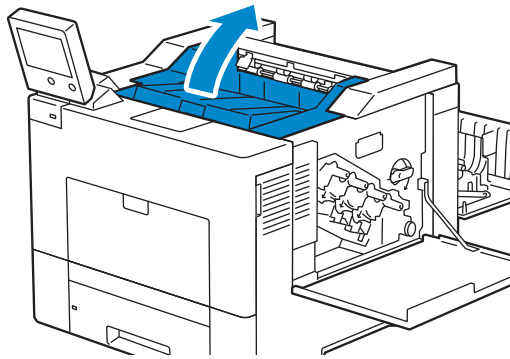
- Never lay the waste toner box on its side as this may cause its malfunction or toner spills.



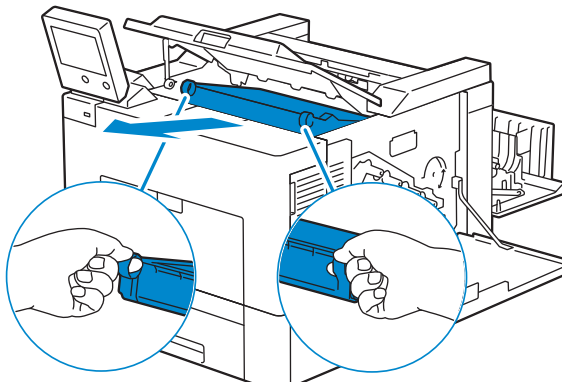
**7** Tilt the control panel forward.



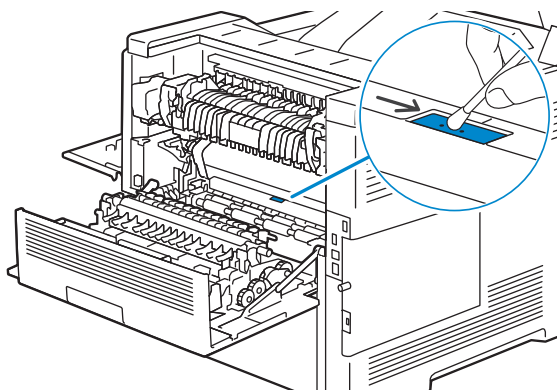
**8** Open the top cover.



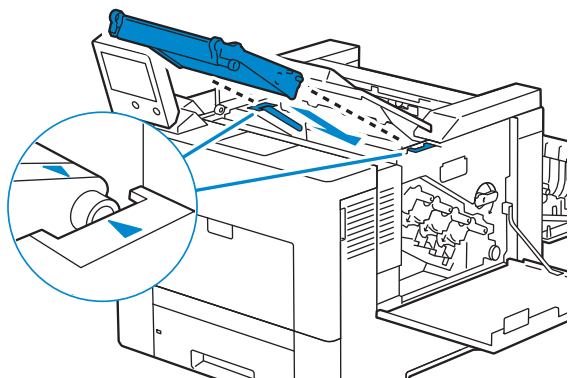
**9** Put your fingers through the loops on both sides of the transfer belt unit, and then pull it out.



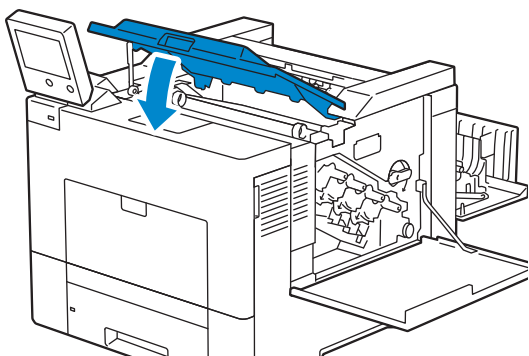
**10** Accessing the printer from its rear, look for the CTD sensor. Clean the CTD sensor (as shown) with a clean, dry cotton swab.



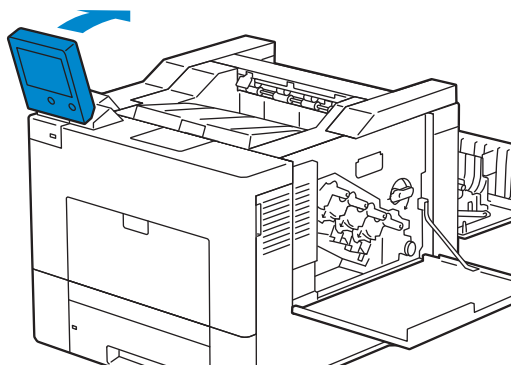
- 11** Make sure that the arrow marks on the transfer belt unit and the printer face each other, and then insert the unit into the printer until it clicks.



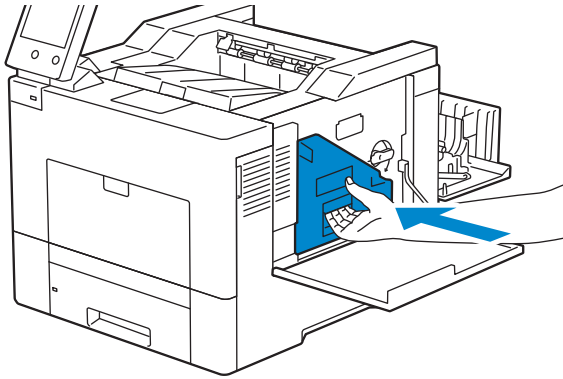
- 12** Close the top cover.



- 13** Tilt the control panel backward to its original position.



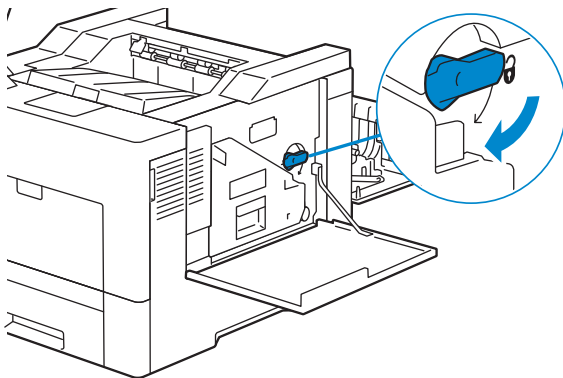
**14** Reinsert the removed waste toner box.



**△ CAUTION:**

- If the waste toner box does not fit into place properly, make sure that the transfer belt unit is fully inserted.

**15** Turn the waste toner box lock lever 90-degrees clockwise to lock the waste toner box.



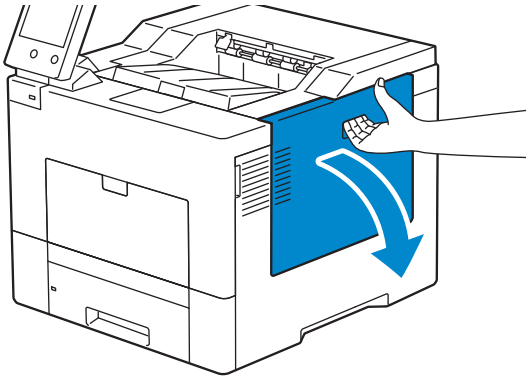
**16** Close the right side cover.

**17** Close the rear cover.

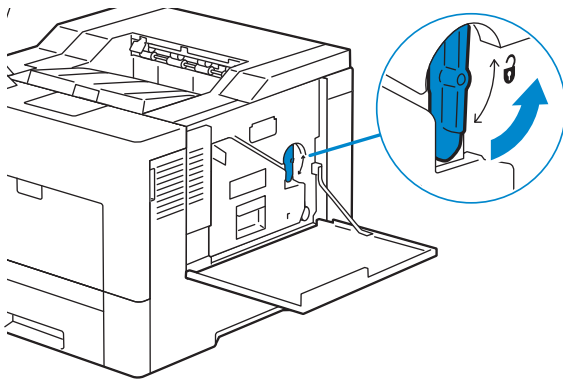
## **Cleaning the Raster Optical Scanner (ROS) Window**

To prevent deterioration of printing quality due to stains inside the printer, clean inside the printer regularly by using the cleaning rod whenever you replace drum cartridges.

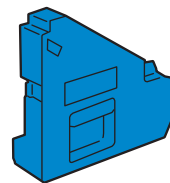
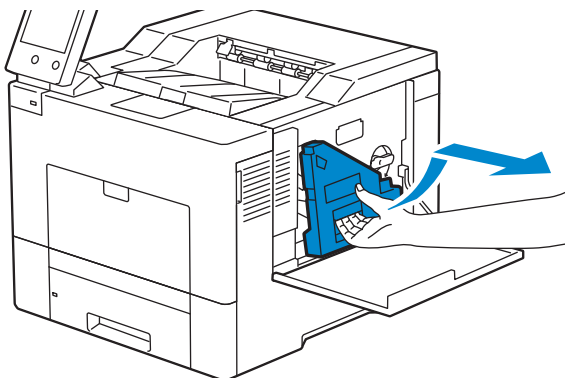
**1** Open the right side cover.



**2** Turn the waste toner box lock lever 90-degrees counterclockwise to unlock the waste toner box.

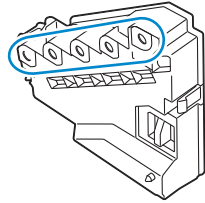


**3** Grasp the handle on the waste toner box and pull it out making sure to hold it upright so that the waste toner does not spill out.

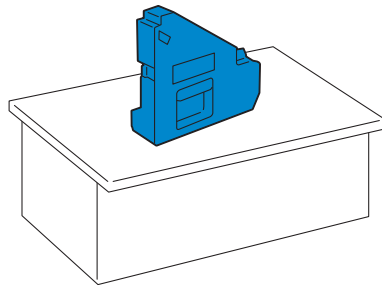


**△ CAUTION:**

- Take care not to drop the waste toner box while you are removing it.
- After removing the waste toner box, do not touch the parts shown in the illustration. Toner can dirty or stain your hands.

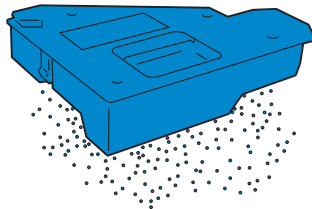


**4** Stand the removed waste toner box upright on a level surface.

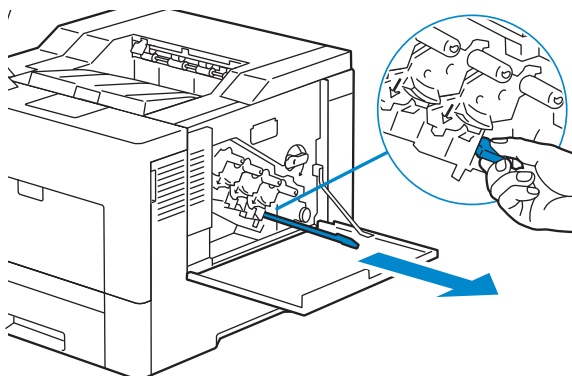


**⚠ WARNING:**

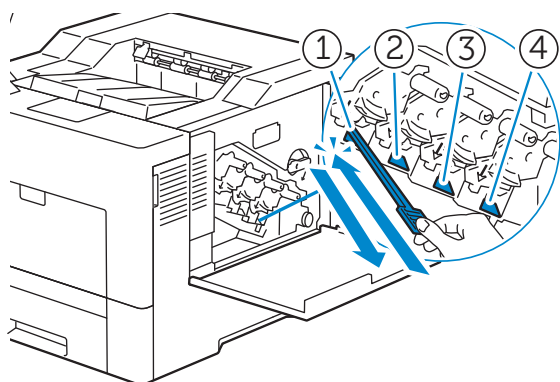
- Never lay the waste toner box on its side as this may cause its malfunction or toner spills.



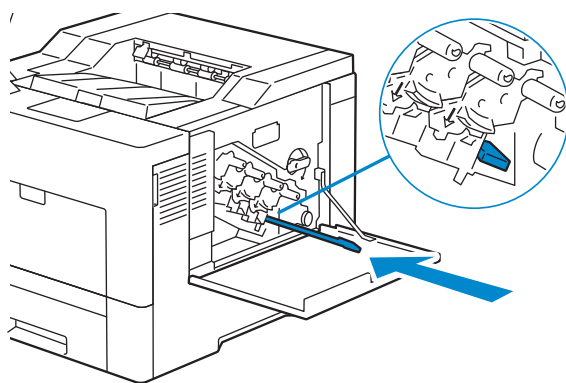
**5** Remove the cleaning rod from inside the printer.



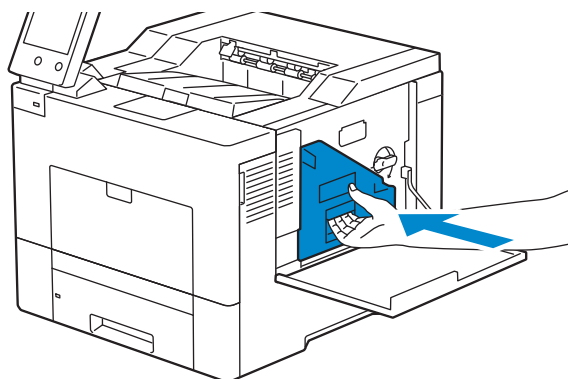
- 6** Insert the cleaning rod fully into one of the four holes until it clicks into the interior of the printer as illustrated below, and then pull it out.



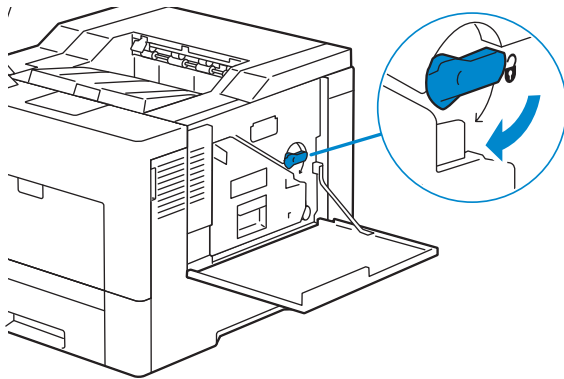
- 7** Repeat step 6 also on the other three holes. One time insertion is enough for each hole.
- 8** Return the cleaning rod to its original location.



- 9** Reinsert the removed waste toner box.



- 10 Turn the waste toner box lock lever 90-degrees clockwise to lock the waste toner box.



- 11 Close the right side cover.

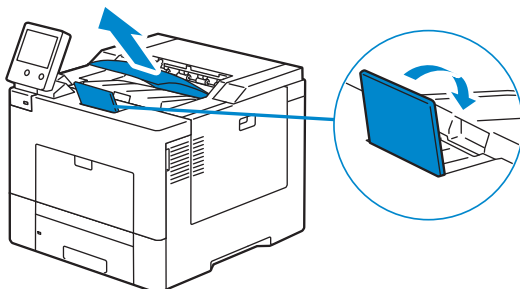
## Moving the Printer

### WARNING:

- Two people are required to move the printer.
  - To prevent you from dropping the printer and getting backache or injuries, lift the printer by firmly gripping the recessed areas on both sides of the printer. Never lift the printer by gripping any other areas.
  - If the optional 550-sheet feeder has been installed, uninstall the optional 550-sheet feeder before moving the printer. If the optional 550-sheet feeder is not fixed securely to the printer, it may fall to the ground and cause injuries.
- 1 Turn off the printer and disconnect the power cable, interface cable, and any other cables.

### NOTE:

- The data in the memory are cleared when the printer is turned off.
- 2 Remove any paper in the output tray and retract the output tray extension.

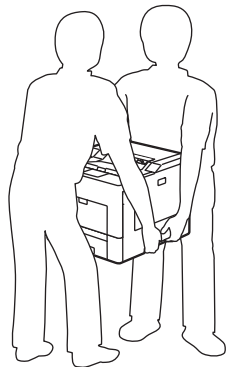




**3** Lift the printer and move it gently.

 **NOTE:**

- If you move the printer over a long distance, remove the toner cartridges from the printer to prevent toner from spilling, and pack the printer inside a box.



## Adjusting Color Registration

When you first install the printer or after moving it to a new location, adjust the color registration in `Device > Support > Color Registration - Automatic`.

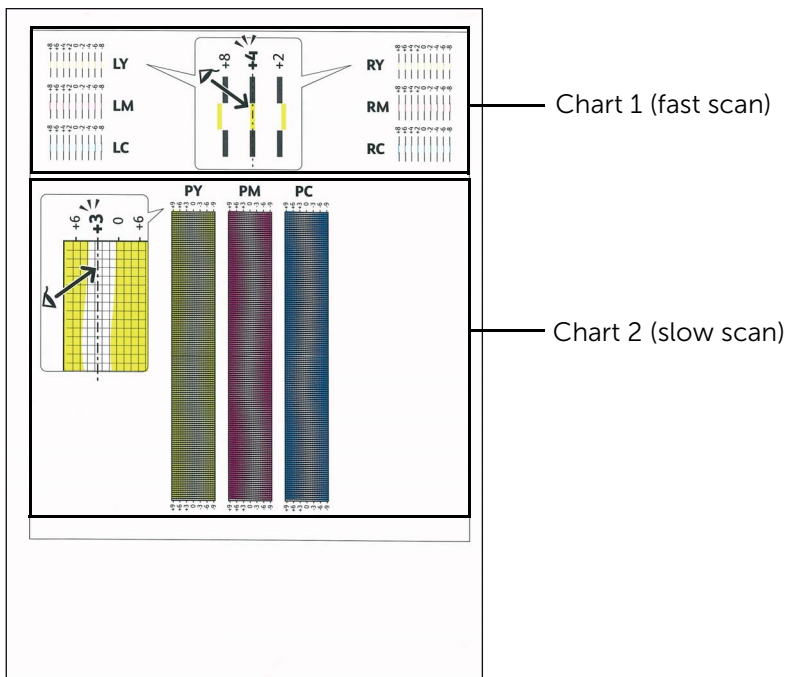
If you need to adjust the color registration manually, follow the procedure below.

### Printing a Sample Page

- 1** Load a sheet of Letter-sized paper in the bypass tray.
- 2** Select `Device > Support > Color Registration - Manual`.
- 3** Select `Print Sample`.
- 4** Select `Start` to print a sample page.

## Determining Values

On the sample page, there are two types of charts: Chart 1 (fast scan) and Chart 2 (slow scan).



The Chart 1 is used to adjust the color registration for the fast scan direction, which is vertical to paper feed direction. The Chart 2 is used to adjust the color registration for the slow scan direction, which is horizontal to paper feed direction.

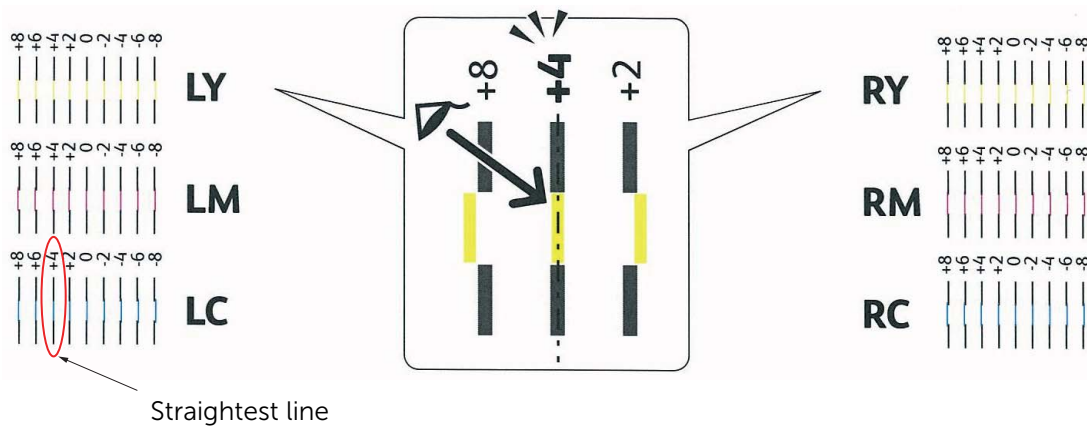
The following sections explain how to determine the adjustment values for the fast scan and the slow scan using Chart 1 and Chart 2.

### Fast Scan

On the Chart 1, find the straightest lines where the two black lines and the colored line are most closely aligned for each color (**LY**, **LM**, **LC**, **RY**, **RM**, and **RC**). If you find the straightest line, make a note of the value (**-8** to **+8**) indicated by the straightest line for each color.

When the value is **0** for each color, you do not need to adjust the color registration for the fast scan.

When the value is not **0**, enter the value using the procedure in "Entering Values".



**NOTE:**

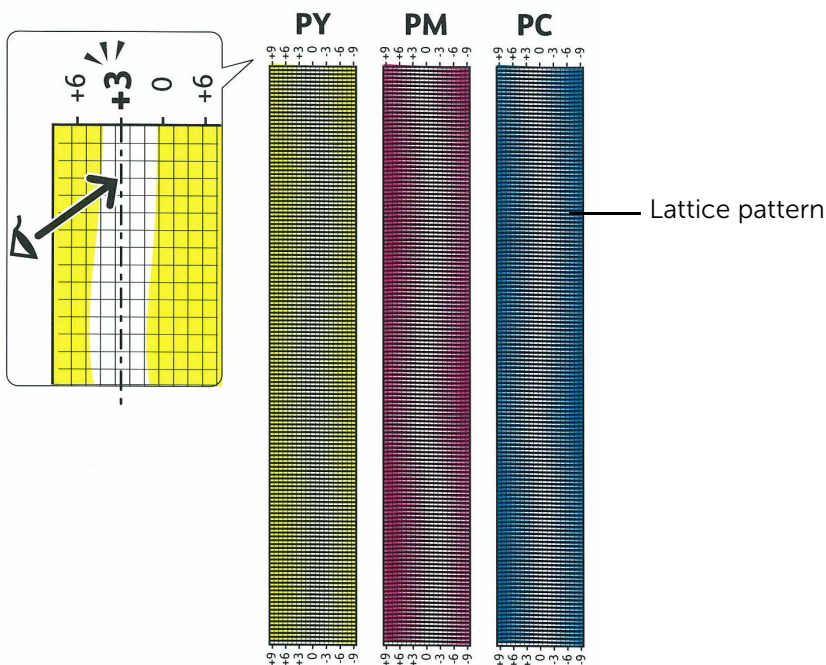
- If it is difficult to choose only one value, as in the case that there seem to be two values closest to a straight line, take the value between the two. For example, in the figure above, -6 and -8 are the values closest to a straight line, so you would enter the value -7.

### Slow Scan

On the Chart 2, find the medium line within the range of white area for each color pattern (**PY**, **PM**, and **PC**). If you find the medium line, make a note of the value (-9 to +9) indicated by the medium line for each color.



When the value is **0** for each color, you do not need to adjust the color registration for the slow scan.

When the value is not **0**, enter the value using the procedure in "Entering Values."



### Entering Values

- 1 Select Device > Support > Color Registration - Manual.
- 2 Select the color you want to adjust.

- 3 Tap - or + to specify the values for left colors (LY, LM, and LC).
  - 4 Tap - or + to specify the values for right colors (RY, RM, and RC).
  - 5 Tap - or + to specify the values for process colors (PY, PM, and PC).
-  **NOTE:**
- The registration values are always shown as 0 the next time you enter the menu.
- 6 Select OK.
  - 7 Repeat steps 2 to 6 for all colors you want to adjust.
  - 8 Select `Print Sample`.
  - 9 Select `Start` to print the sample page with the new values.
  - 10 If any of the straightest lines is not at the value of 0, adjust the values again.
  - 11 Select `Adjust`.
-  **NOTE:**
- After printing the sample page, do not turn off the printer until the printer motor has stopped running.

# Removing Options

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If the printer location needs to change or the printer and print media handling options need to be shipped to a new location, all print media handling options must be removed from the printer. For shipping, pack the printer and print media handling options securely to avoid damage.

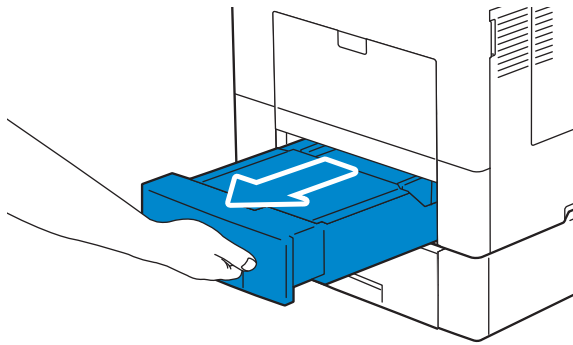
## Removing the Optional 550-Sheet Feeder



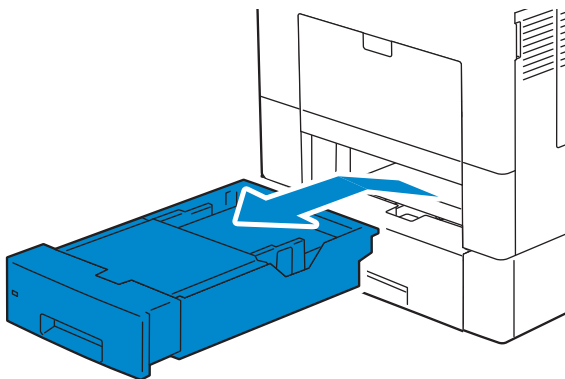
### WARNING:

- When you remove the optional 550-sheet feeder (Tray 2), be sure to turn off the printer, unplug the power cable, and disconnect all cables from the rear of the printer before starting these tasks.

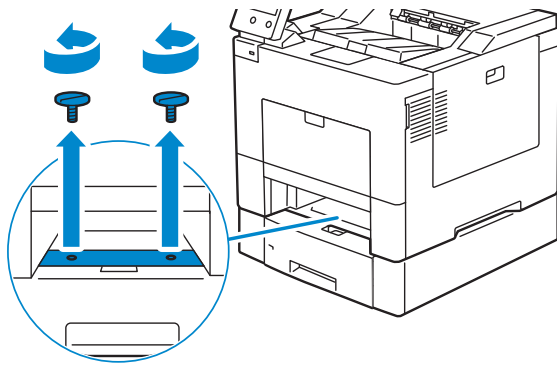
- 1 Ensure that the printer is turned off, and then disconnect all cables from the rear of the printer.
- 2 Pull Tray 1 out of the printer about 200 mm.



- 3 Hold Tray 1 with both hands, and remove it from the printer.



- 4 Remove the two screws joining the printer and the optional 550-sheet feeder by unscrewing them with a coin or similar object.

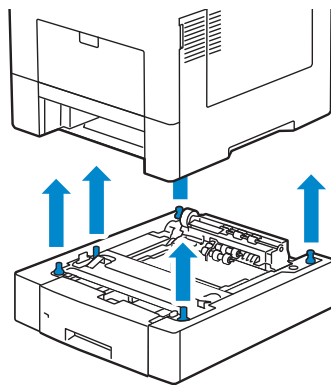


- 5 Gently lift the printer off the optional 550-sheet feeder, and place it on a level surface.

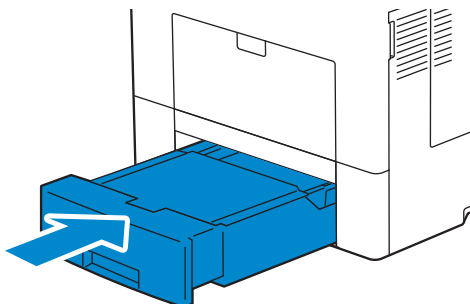


**WARNING:**

- Two people are required to lift the printer.



- 6 Insert Tray 1 into the printer, and push until it stops.



**CAUTION:**

- Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

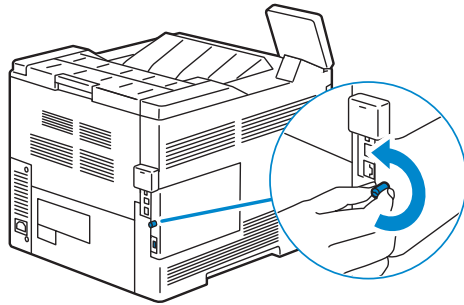
- 7 Re-connect all cables into the rear of the printer and turn on the printer.

# Removing the Optional Wireless Adapter

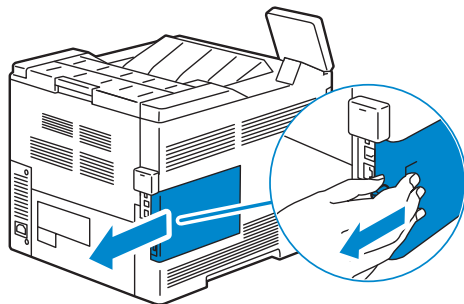
**⚠ WARNING:**

- When you remove the optional wireless adapter, be sure to turn off the printer, unplug the power cable, and disconnect all cables from the back of the printer before starting these tasks.

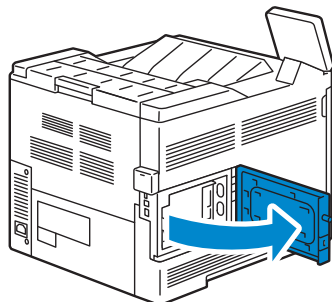
- 1 Ensure that the printer is turned off.
- 2 Turn the screw on the left side cover counterclockwise to loosen it.



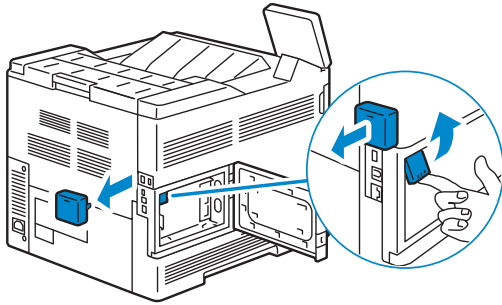
- 3 Slide the left side cover towards the back of the printer.



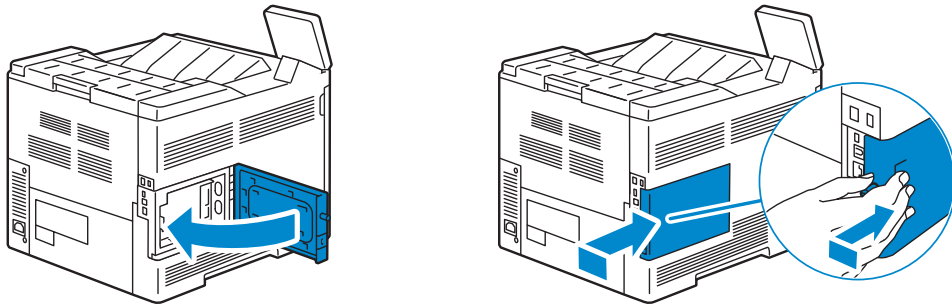
- 4 Open the left side cover completely.



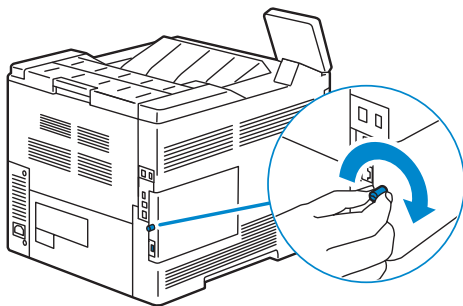
5 Remove the wireless adapter from the printer by releasing the adapter's hook.



6 Close the left side cover, and then slide it towards the front of the printer.

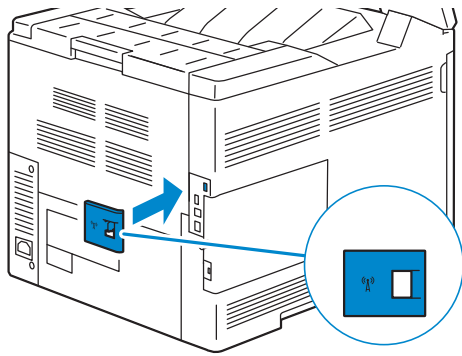


7 Turn the screw clockwise.






- 8 Return the cap removed upon installation of the wireless adapter.



- 9 Turn on the printer.

**⚠ CAUTION:**

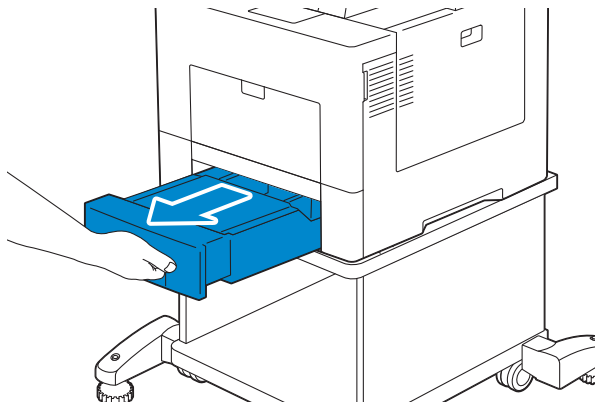
- Make sure that the power cable is connected to the printer and to a power source before pressing the  button on the control panel.

## Removing the Optional Caster Cabinet

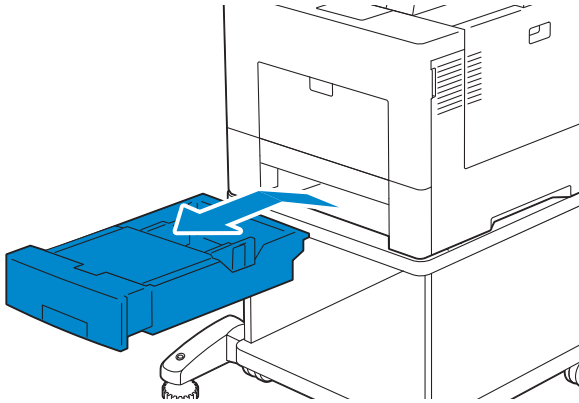
**⚠ WARNING:**

- When you remove the optional caster cabinet, be sure to turn off the printer, unplug the power cable, and disconnect all cables from the back of the printer before starting these tasks.

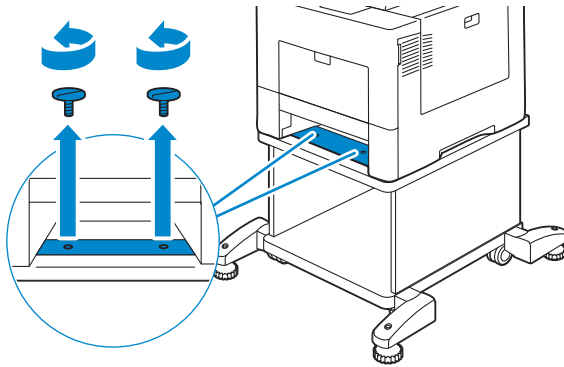
- 1 Pull the tray out of the printer about 200 mm.



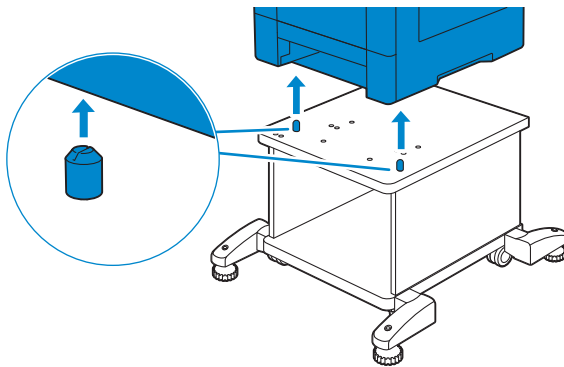
2 Hold the tray with both hands, and remove it from the printer.



3 Remove the two screws joining the printer and the optional caster cabinet by unscrewing them with a coin or similar object.

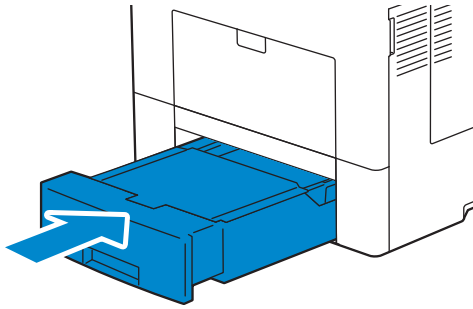


4 Gently lift the printer off the optional caster cabinet, and place it on a level surface.



**⚠ WARNING:**  
• Two people are required to lift the printer.

5 Insert the tray into the printer, and push until it stops.



**△ CAUTION:**

- Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.



# Troubleshooting

# Clearing Jams

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Careful selection of appropriate print media and proper loading allow you to avoid paper jams. See "Print Media Guidelines" for more information.

 **NOTE:**

- Before buying large quantities of any print media, it is recommended to try a sample first.
- To resolve the error displayed on the touch panel, you must clear all print media from the print media path.

## Avoiding Jams

- Do not overload the print media sources. Ensure that the print media stack height does not exceed the maximum height indicated by the load-line labels in the tray.
- Do not load wrinkled, creased, damp, or curled print media.
- Flex, fan, and straighten print media before you load it. If a jam occurs with print media, try feeding one sheet at a time through the bypass tray.
- Do not use print media that you have cut or trimmed yourself.
- Do not mix print media sizes, weights, or types in the same print media source.
- Ensure that the recommended print side is face up when you insert the print media.
- Keep print media stored in an acceptable environment. For more information, see "Storing Print Media".
- Do not remove the feeding tray during a print job.
- Push Tray 1 or the optional 550-sheet feeder (Tray 2) in firmly after loading.
- Ensure that all cables that connect to the printer are correctly attached.
- Overtightening the guides may cause jams.
- Wipe the retard rollers in the tray or bypass tray with a cloth that is slightly dampened with water if jams caused by misfeeding paper occur frequently.

# Identifying the Location of Paper Jams

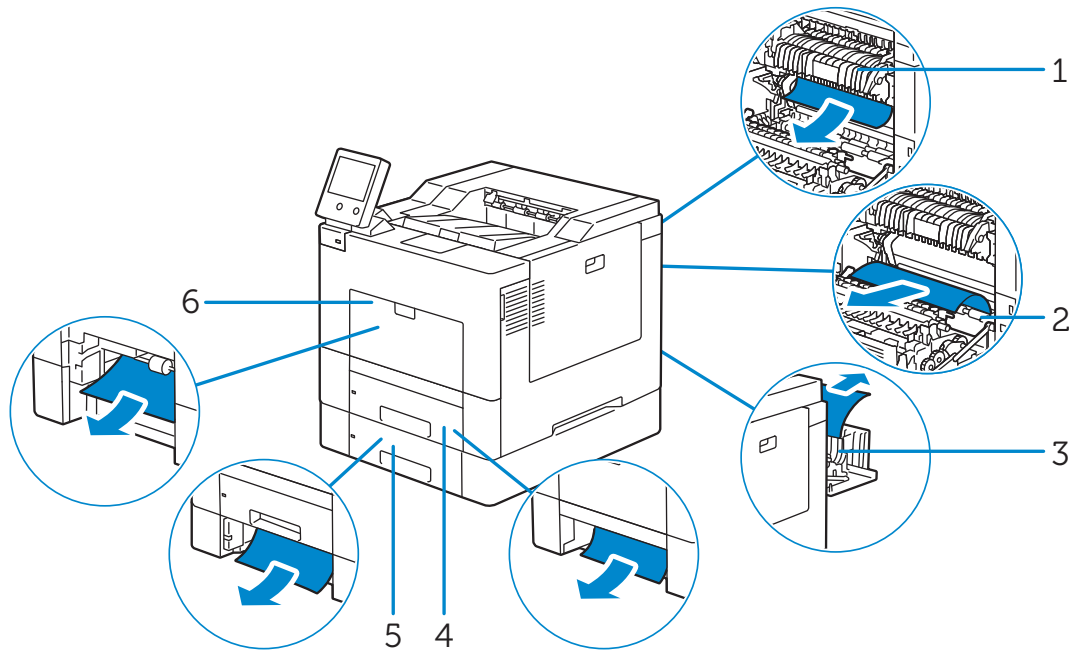
**⚠ WARNING:**

- Do not attempt to clear any jams using tools or instruments. This may permanently damage the printer.

**⚠ CAUTION:**

- Do not attempt to remove a paper deeply jammed inside the product, particularly a paper wrapped around the fusing unit or the heat roller. Otherwise, it may cause injuries or burns. Switch off the product immediately and contact Dell.

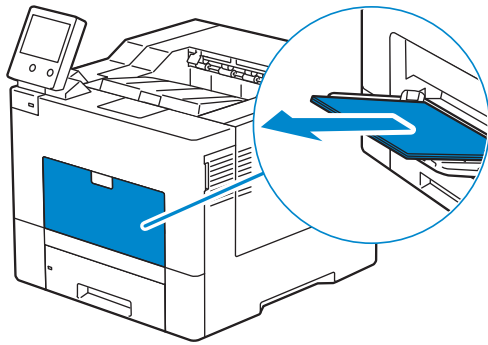
The following illustration shows where paper jams may occur along the print media path.



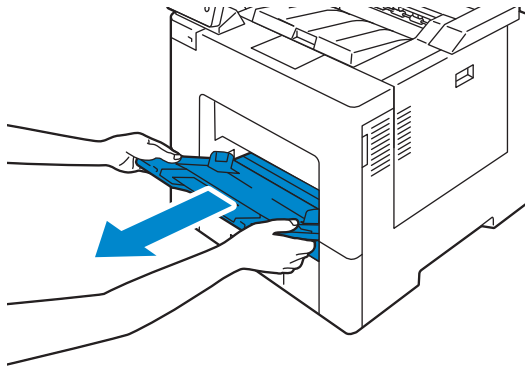
1	Fusing Unit
2	Regi Roll
3	Duplexer
4	Tray 1
5	Optional 550-Sheet Feeder (Tray 2)
6	Bypass Tray (Tray 5)

# Clearing Paper Jams From the Bypass Tray

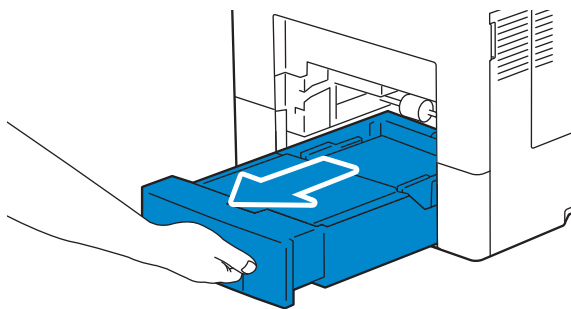
- 1 Remove any paper loaded on the bypass tray.



- 2 Grasp both sides of the bypass tray, and then pull it out of the printer.

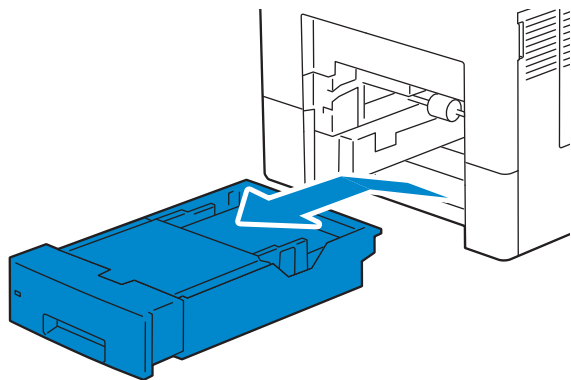


- 3 Pull Tray 1 out of the printer about 200 mm.

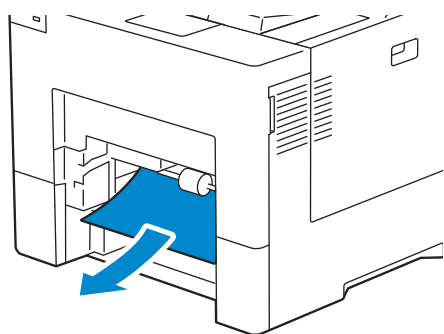




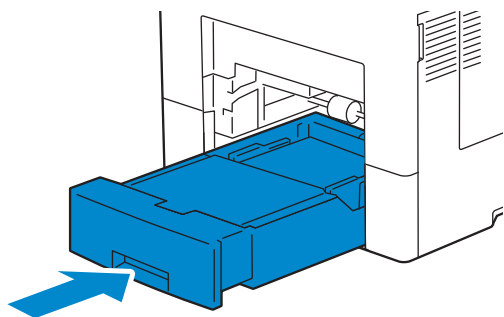
4 Hold Tray 1 with both hands, and remove it from the printer.



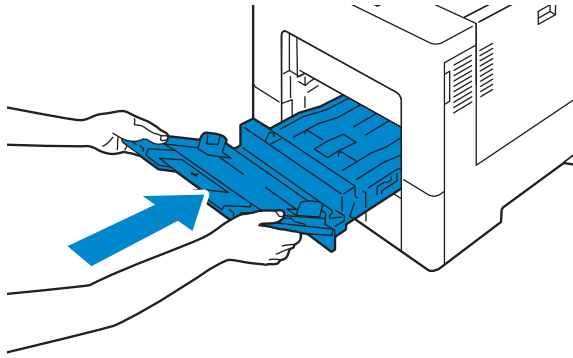
5 Remove the jammed paper.



6 Insert Tray 1 into the printer, and push until it stops.

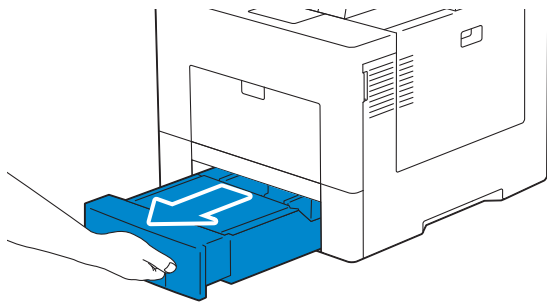


7 Insert the bypass tray into the printer.

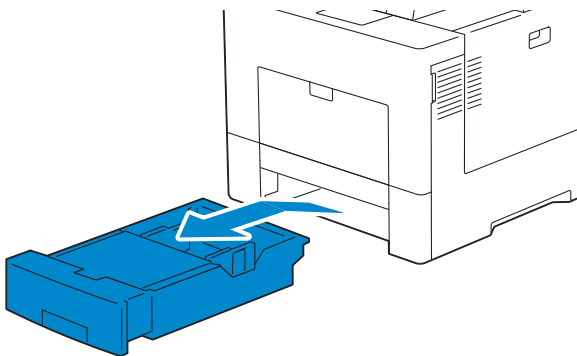


## Clearing Paper Jams From Tray 1

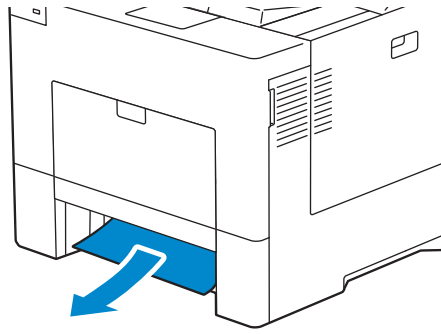
1 Pull Tray 1 out of the printer about 200 mm.



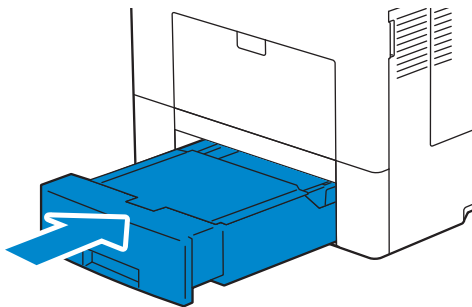
2 Hold Tray 1 with both hands, and remove it from the printer.



**3** Remove the jammed paper.



**4** Insert Tray 1 into the printer, and push until it stops.

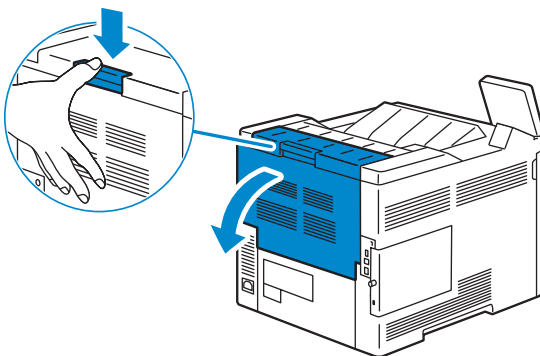


**5** Tap *Confirm*.

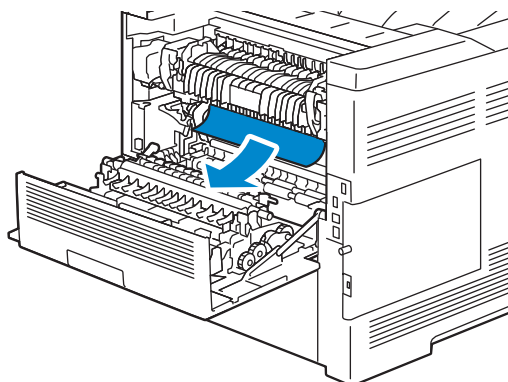
## Clearing Paper Jams From Inside the Rear Cover

### Clearing Paper Jams From the Fusing Unit

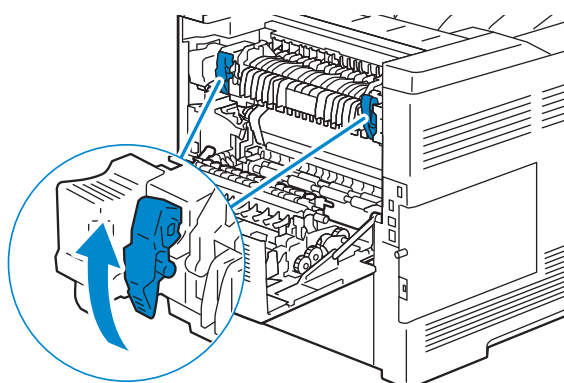
**1** Push down the latch to open the rear cover.



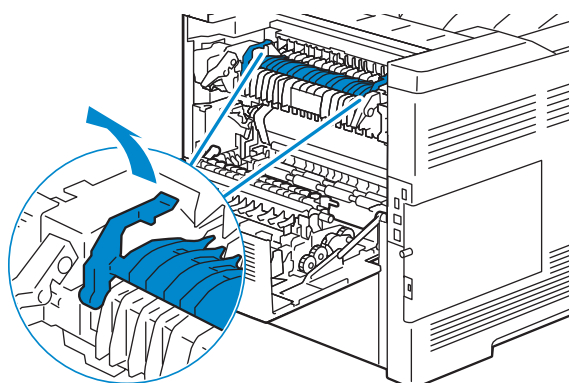
2 Remove the jammed paper.



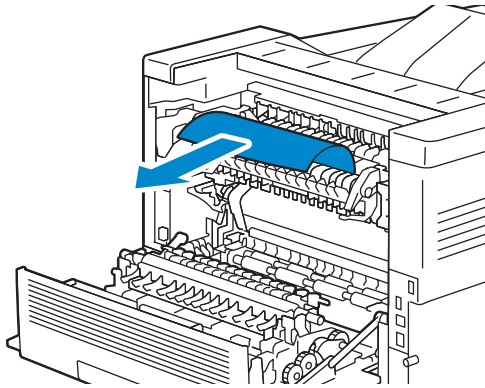
3 If you cannot see the jammed paper, lift the lever on both sides of the fusing unit.



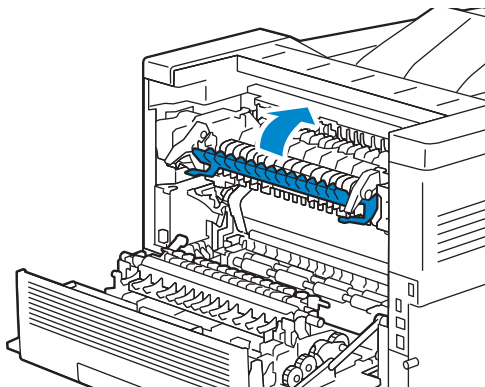
4 Hold and lower the tabs to open the inner part.



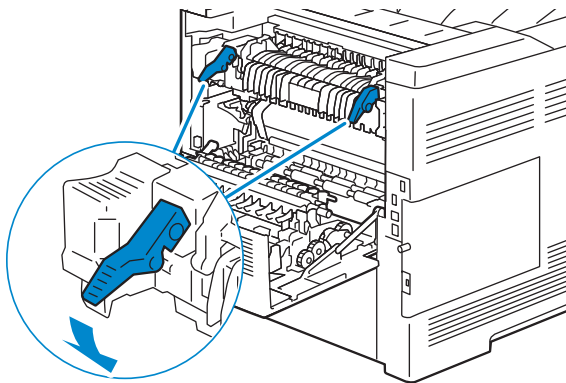
5 Remove the jammed paper.



6 Replace the inner part.



7 Press down the lever on both sides of the fusing unit, and then close the rear cover.

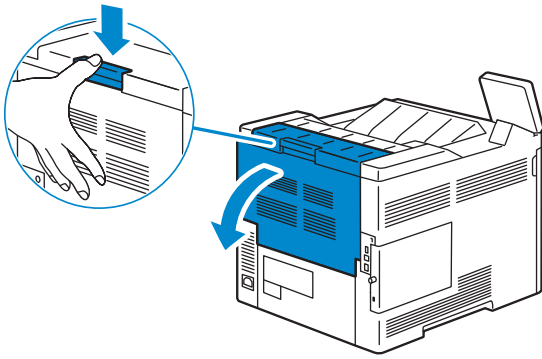


## Clearing Paper Jams From the Duplexer

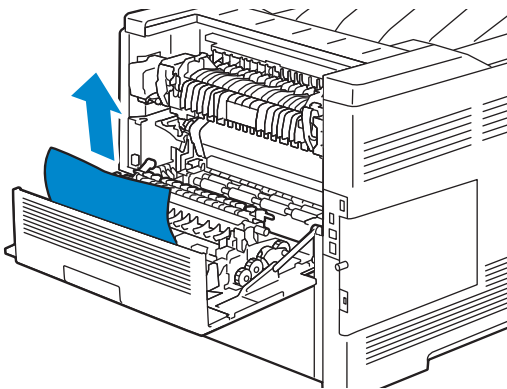
### ⚠ CAUTION:

- Ensure that nothing touches or scratches the surface (the roll made with sponge) of the transfer unit. Scratches, dirt, or oil from your hands on the roll of the transfer unit may reduce print quality.
- Protect the drum of the drum cartridge against bright light. If the rear cover remains open for more than 3 minutes, print quality may deteriorate.

1 Push down the latch to open the rear cover.



2 Remove the jammed paper from the duplexer.



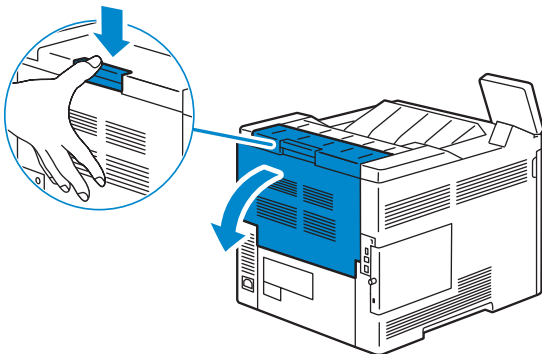
3 Close the rear cover.

## Clearing Paper Jams From the Regi Roll

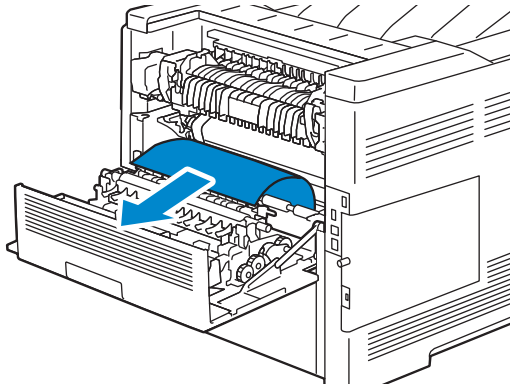
### △ CAUTION:

- Ensure that nothing touches or scratches the surface (the roll made with sponge) of the transfer unit. Scratches, dirt, or oil from your hands on the roll of the transfer unit may reduce print quality.
- Protect the drum of the drum cartridge against bright light. If the rear cover remains open for more than 3 minutes, print quality may deteriorate.

1 Push down the latch to open the rear cover.



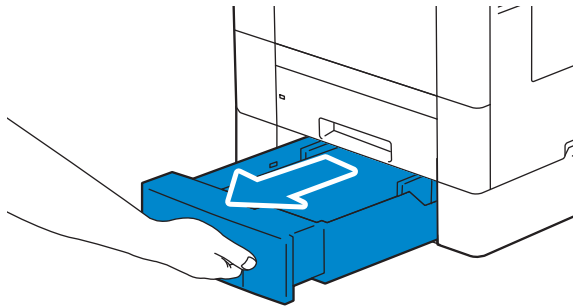
- 2 Remove the jammed paper from the regi roll.



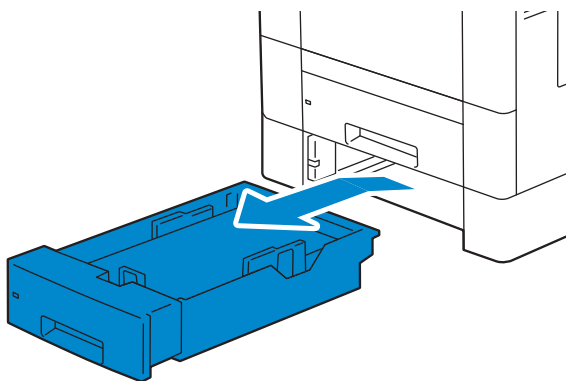
- 3 Close the rear cover.

## Clearing Paper Jams From the Optional 550-Sheet Feeder

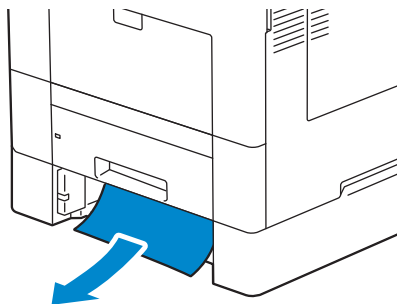
- 1 Pull the optional 550-sheet feeder out of the printer about 200 mm.



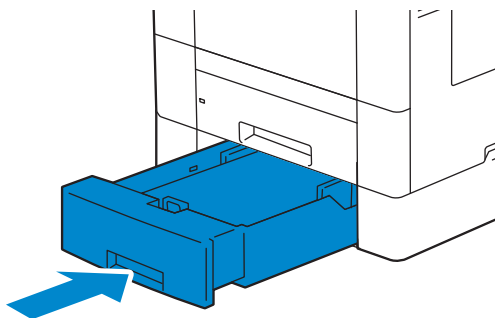
- 2 Hold the optional 550-sheet feeder with both hands, and remove it from the printer.



**3** Remove the jammed paper.



**4** Insert the optional 550-sheet feeder into the printer, and push until it stops.





# Basic Printer Problems

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Some printer problems can be easily resolved. If a problem occurs with your printer, check each of the following:

- The power cable is plugged into the printer and a properly grounded electrical outlet.
- The printer is not plugged into a power strip or uninterruptible power supply.
- The printer is turned on.
- The electrical outlet is not turned off at any switch or breaker.
- Other electrical equipment plugged into the outlet is working.
- All options are properly installed.

If you have checked all of the above and still have a problem, turn off the printer, wait for 10 seconds, and then turn on the printer. This often fixes the problem.


# Display Problems

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<b>Problem</b>	<b>Action</b>
Menu settings changed from the control panel have no effect.	Settings in the software program, the printer driver, or the printer utilities are overriding the settings made on the control panel.

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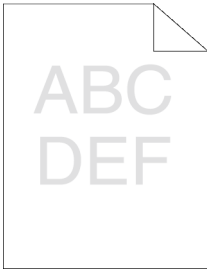
# Printing Problems

Problem	Action
Job did not print or incorrect characters printed.	<p>Ensure that the top menu appears on the touch panel before you send a job to print.</p> <p>Ensure that the print media is loaded in the printer.</p> <p>Verify that the printer is using the correct Page Description Language (PDL).</p> <p>Verify that you are using the correct printer driver.</p> <p>Ensure that the correct USB or Ethernet cable is securely connected to the printer.</p> <p>Verify that the correct print media size matches the document.</p> <p>If you are using a print spooler, verify that the spooler has not stalled.</p> <p>Verify that the current interface settings are correct.</p>
Print media misfeeds or multiple feeds occur.	<p>Ensure that the print media you are using meets the specifications for your printer.</p> <p>Fan the print media before loading it.</p> <p>Ensure that the print media is loaded correctly.</p> <p>Ensure that the width and length guides of the print media sources are against the media and the media is touching the back of the tray.</p> <p>Ensure that the tray unit is securely inserted.</p> <p>Do not overload the tray.</p> <p>Do not force print media into the bypass tray when you load it; otherwise, it may skew or buckle.</p> <p>Ensure that the print media is not curled.</p> <p>Face the recommended print side up.</p> <p>Turn the print media over or around and try printing again to see if feeding improves.</p> <p>Do not mix print media types.</p> <p>Do not mix reams of print media.</p> <p>Remove the top and bottom curled sheets of a ream before loading the print media.</p> <p>Load print media only when the tray is empty.</p> <p>Wipe the retard rollers in the tray with a cloth moistened with water.</p>
The envelope is creased after printed.	<p>Make sure that the envelope is loaded in the appropriate tray properly.</p> <p> <b>NOTE:</b></p> <ul style="list-style-type: none"><li>Some wrinkling is normal, try different brands of envelopes to minimize wrinkling.</li></ul>
Page breaks in unexpected places.	<p>Increase the time-out value.</p>
Print media does not stack neatly in the output tray.	<p>Turn the print media stack over in the tray.</p>
Cannot print from a tray other than the bypass tray.	<p>Load the print media into the bypass tray.</p>

# Print Quality Problems

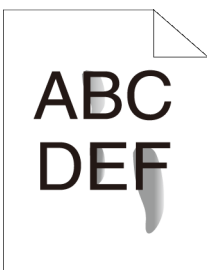
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## The output is too light



Action	Yes	No
1 If you are using non-Dell brand toner cartridges, enable the Non-Dell Toner option. Does this solve your problem?	The task is complete. Go to action 2.	
2 The print media surface may be uneven. Try changing the paper type setting in the printer driver. Does this solve your problem?	The task is complete. Go to action 3.	
3 Verify that the correct print media is being used. If not, use the print media recommended for the printer. Does this solve your problem?	The task is complete. Go to action 4.	
4 If only one color is light, replace the drum cartridges. If all colors are light, replace the 2nd Belt Transfer Roller (2nd BTR). Does this solve your problem?	The task is complete. Contact Dell.	

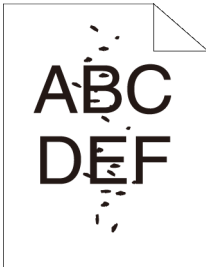
## Toner smears or print comes off



Action	Yes	No
1 The print media surface may be uneven. Try changing the paper type setting in the printer driver. Does this solve your problem?	The task is complete. Go to action 2.	
2 Verify that the correct print media is being used. If not, use the print media recommended for the printer. Does this solve your problem?	The task is complete. Go to action 3.	

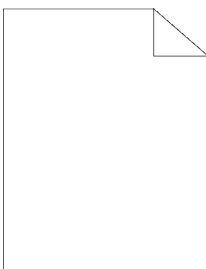
Action	Yes	No
3 Increase the temperature level of the fusing unit in Device > Support > Fusing Unit Temperature Adjustment. Does this solve your problem?	The task is complete. Go to action 4.	
4 Replace the fusing unit. Does this solve your problem?	The task is complete. Contact Dell.	

## Random spots/Blurred images



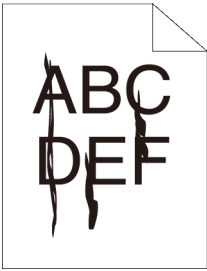
Action	Yes	No
1 Ensure that the toner cartridges are installed correctly. Does this solve your problem?	The task is complete. Go to action 2.	
2 Ensure that the drum cartridges are installed correctly. Does this solve your problem?	The task is complete. Go to action 3.	
3 Replace the drum cartridges. Does this solve your problem?	The task is complete. Contact Dell.	

## The entire output is blank



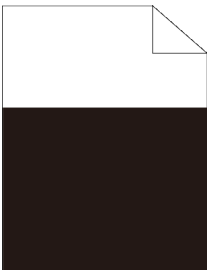
Action	Yes	No
1 If you are using non-Dell brand toner cartridges, enable the Non-Dell Toner option. Does this solve your problem?	The task is complete. Go to action 2.	
2 If only one color is blank, replace the drum cartridges. If all colors are blank, check the 2nd Belt Transfer Roller (2nd BTR) to make sure it is seated correctly or replace the 2nd Belt Transfer Roller (2nd BTR). Does this solve your problem?	The task is complete. Contact Dell.	

## Dark or colored streaks appear on the output



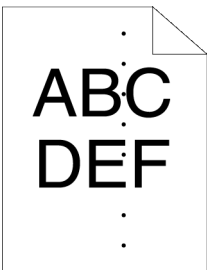
Action	Yes	No
1 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

## Part of the entire output is black or a color (CMY) is missing



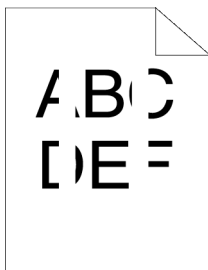
Action	Yes	No
1 Ensure that the drum cartridges are installed correctly. Does this solve your problem?	The task is complete.	Go to action 2.
2 Ensure the output color is set to color in the printer driver. Does this solve your problem?	The task is complete.	Go to action 3.
3 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

## Dark and color dots repeating at the same interval



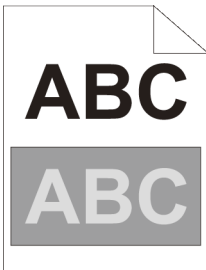
Action	Yes	No
1 Locate the cause of the problem using Device > Support > Repeating Defects. Is the cause of the problem located?	Proceed to the action corresponding to the location of the problem: <ul style="list-style-type: none"> <li>• Drum cartridge - 2</li> <li>• Fusing unit - 3</li> <li>• Transfer belt unit - 4</li> </ul>	Contact Dell.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.
3 Replace the fusing unit. Does this solve your problem?	The task is complete.	Contact Dell.
4 Replace the transfer belt unit, the 2nd BTR, and the retard roller. Does this solve your problem?	The task is complete.	Contact Dell.

## Vertical voids or lighter areas



Action	Yes	No
1 Clean the Raster Optical Scanner (ROS) Windows by using the cleaning rod. <b>NOTE:</b> <ul style="list-style-type: none"> <li>• Sometimes this cleaning has to be repeated several times. If the print quality defect is improving, repeat the cleaning process.</li> </ul> Does this solve your problem?	The task is complete.	Go to action 2.
2 Ensure the light path is not covered. <b>1</b> Remove the drum cartridges, and store them in the dark place. <b>2</b> Check the ROS windows, and remove any obstructions, usually a torn off piece of paper or label. <b>3</b> Re-install the drum cartridges. Does this solve your problem?	The task is complete.	Go to action 3.
3 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

# Ghosting

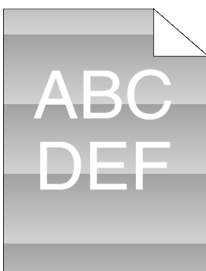


Action	Yes	No
1 Locate the cause of the problem using <i>Device &gt; Support Pages &gt; Ghosting Print</i> . Is the type of the problem identified?	Proceed to the action corresponding to the type of ghosting. <ul style="list-style-type: none"> <li>• Positive ghost - 2a</li> <li>• Negative ghost - 2b</li> </ul>	Contact Dell.
2a Replace the drum cartridges. Does this solve your problem?	The task is complete. Go to action 3.	
2b If you are using non-recommended print media, use the print media recommended for the printer. Does this solve your problem?	The task is complete. Contact Dell.	
3 Adjust the transfer bias. If the problem persists, reset the transfer bias to 0 and decrease the temperature level of the fusing unit. Does this solve your problem?	The task is complete. Contact Dell.	

# Light-induced fatigue

 **NOTE:**

- This is caused by leaving one or more drum cartridges exposed to light outside the machine for an extended time period.



Action	Yes	No
1 Locate the cause of the problem using <i>Device &gt; Support Pages &gt; Repeating Defects</i> . Does the pattern on the output match with the chart?	Go to action 2.	Contact Dell.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete. Contact Dell.	



## Fog (background)

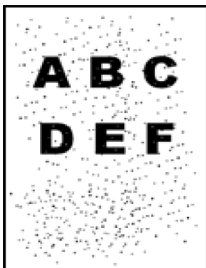
 **NOTE:**

- This can occur on glossy or coarse media. Before checking anything else, try adjusting the 2nd Belt Transfer Roller (2nd BTR) to eliminate or minimize background.



Action	Yes	No
1 If you are using non-Dell brand toner cartridges, enable the Non-Dell Toner option. If the fog is occurring in only one color and that color has a Non-Dell toner cartridge installed, try changing the toner cartridge to a Dell branded toner cartridge and make enough prints to purge the toner. Does this solve your problem?	The task is complete.	Go to action 2.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

## Bead-Carry-Out (BCO)



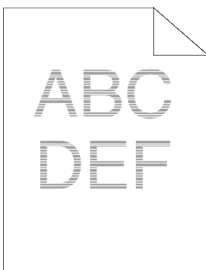
Action	Yes	No
1 If the printer is installed in a high altitude location, set the altitude of the location using Device > Support > Altitude Adjustment. Does this solve your problem?	The task is complete.	Go to action 2.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

# Jagged characters



Action	Yes	No
1 Set <b>Screen</b> to <b>Fineness</b> in the printer driver. Does this solve your problem?	The task is complete. Go to action 2.	
2 Set <b>Print Mode</b> to <b>High Quality</b> in the printer driver. Does this solve your problem?	The task is complete. Go to action 3.	
3 Enable <b>Bitmap Smoothing</b> in the printer driver. Does this solve your problem?	The task is complete. Go to action 4.	
4 Enable <b>Print Page Mode</b> in the printer driver. Does this solve your problem?	The task is complete. Go to action 5.	
5 If using a downloaded font, ensure that the font is recommended for the printer, operating system, and the application being used. Does this solve your problem?	The task is complete. Contact Dell.	

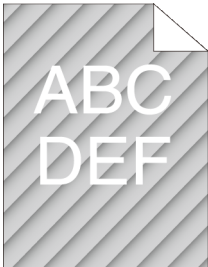
# Banding



Action	Yes	No
1 Locate the cause of the problem using Device > Support Pages > Repeating Defects. Is the cause of the problem located?	Proceed to the action corresponding to the location of the problem: <ul style="list-style-type: none"> <li>• Drum cartridge - 2</li> <li>• Fusing unit - 3</li> <li>• Transfer belt unit - 4</li> </ul>	Contact Dell.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete. Contact Dell.	
3 Replace the fusing unit. Does this solve your problem?	The task is complete. Contact Dell.	

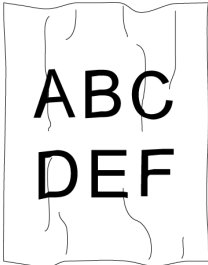
Action	Yes	No
4 Replace the transfer belt unit, the 2nd BTR, and the retard roller. Does this solve your problem?	The task is complete.	Contact Dell.

## Auger mark



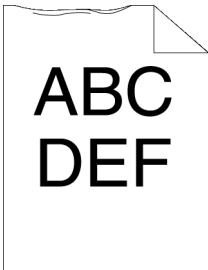
Action	Yes	No
1 Locate the cause of the problem using <i>Device &gt; Support Pages &gt; Repeating Defects</i> . Does the output match with the pattern for auger mark?	Go to action 2.	Contact Dell.
2 Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

## Wrinkled/Stained paper



Action	Yes	No
1 Verify that the correct print media is being used. If not, use the print media recommended for the printer. Does this solve your problem?	The task is complete.	If printing on an envelope, go to action 2. If printing on print media other than envelopes, contact Dell.
2 Check the wrinkle. Is the wrinkle within 30 mm of the four edges of the envelope? Does this solve your problem?	This type of wrinkle is considered normal. Your printer is not at fault.	Go to action 3.
3 Load the envelopes in the bypass tray properly. Does this solve your problem?	The task is complete.	Contact Dell.

# Damage on the leading edge of paper

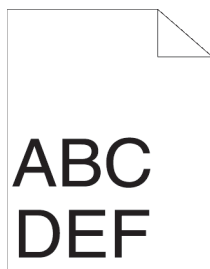


Action	Yes	No
1 When you use the bypass tray, reverse the paper and then try again. When you use any of the other trays, change the paper and then try again. Does this solve your problem?	The task is complete. (Bypass Tray)	Go to action 2. (Other trays) Contact Dell.
2 Change the paper with another one and then try again. Does this solve your problem?	The task is complete. Go to action 3.	
3 Use any of the other trays in place of the bypass tray. Does this solve your problem?	The task is complete. Contact Dell.	

# Jam/Alignment Problems

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## The top and side margins are incorrect

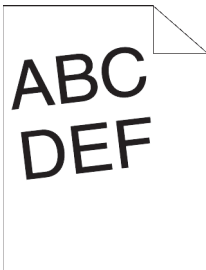


Action	Yes	No
1 Ensure that the margins are set correctly on the application being used. Does this solve your problem?	The task is complete. Go to action 2.	
2 Adjust the paper guides properly. Does this solve your problem?	The task is complete. Contact Dell.	

## Color registration is out of alignment

Action	Yes	No
1 Adjust the settings of the paper type on the printer driver to those of the tray. Does this solve your problem?	The task is complete. Go to action 2.	
2 Execute auto color registration adjustment. <b>1</b> Select Device > Support > Color Registration - Automatic > Start. Does this solve your problem?	The task is complete. Contact Dell.	
3 Do you have spare drum cartridges?	Go to action 4a.	Go to action 4b.
4a Replace the drum cartridges. Does this solve your problem?	The task is complete. Contact Dell.	
4b Manually correct the color registration. <b>1</b> Select Device > Support > Color Registration - Manual. <b>2</b> Follow the instructions in "Adjusting Color Registration". Does this solve your problem?	The task is complete. Contact Dell.	

## Images are skewed



Action	Yes	No
1 Adjust the paper guides properly. Does this solve your problem?	The task is complete.	Go to action 2.
2 Install the transfer belt unit, the 2nd Belt Transfer Roller (2nd BTR), and the retard roll according to an appropriate procedure. Does this solve your problem?	The task is complete.	Contact Dell.

## Tray 1/Optional 550-Sheet Feeder Misfeed Jam

Action	Yes	No
1 Ensure that Tray 1 or the optional 550-sheet feeder is properly inserted. Does this solve your problem?	The task is complete.	Proceed to the action corresponding to the type of the print media being used: <ul style="list-style-type: none"> <li>• Thick - 2a</li> <li>• Thin - 2b</li> <li>• Coated - 2c</li> </ul> If using paper other than the above, go to action 2d, 2e.
2a Use thick paper that is 216 g/m <sup>2</sup> or less. Does this solve your problem?	The task is complete.	Go to action 3a.
2b Use thin paper that is 60 g/m <sup>2</sup> or more. Does this solve your problem?	The task is complete.	Go to action 3a.
2c Load coated paper one sheet at a time. Does this solve your problem?	The task is complete.	Go to action 3b.
2d Ensure that the print media is not curled. Does this solve your problem?	The task is complete.	Go to action 3a.
2e Is the print media damp?	Go to action 3c.	Go to action 3a.
3a Fan the print media. Does this solve your problem?	The task is complete.	Go to action 3b.
3b Wipe the retard roller in Tray 1 or the optional 550-sheet feeder with a cloth moistened with water. Does this solve your problem?	The task is complete.	Contact Dell.
3c Turn over the print media. Does this solve your problem?	The task is complete.	Go to action 4.

Action	Yes	No
4 Use print media that is not damp. Does this solve your problem?	The task is complete.	Go to action 3a.

## Bypass Tray Misfeed Jam

Action	Yes	No
1 Ensure that the tray is properly inserted. Does this solve your problem?	The task is complete.	Proceed to the action corresponding to the type of the print media being used: <ul style="list-style-type: none"> <li>• Thick - 2a</li> <li>• Thin - 2b</li> <li>• Envelope - 2d</li> </ul> If using paper other than the above, go to action 2d, 2e.
2a Use thick paper that is 216 g/m <sup>2</sup> or less. Does this solve your problem?	The task is complete.	Go to action 3a.
2b Use thin paper that is 60 g/m <sup>2</sup> or more. Does this solve your problem?	The task is complete.	Go to action 3a.
2c Load coated paper one sheet at a time. Does this solve your problem?	The task is complete.	Go to action 3b.
2d Ensure that the envelope is properly loaded in the tray. Does this solve your problem?	The task is complete.	Go to action 3c.
2e Is the print media damp?	Go to action 3d.	Go to action 3a.
3a Fan the print media. Does this solve your problem?	The task is complete.	Go to action 3b.
3b Wipe the pick up roller, retard roller, and feed roller in the tray with a cloth moistened with water. Does this solve your problem?	The task is complete.	Go to action 4b.
3c If the envelope is deformed, correct it or use another envelope. Does this solve your problem?	The task is complete.	Go to action 3a.
3d Turn over the print media. Does this solve your problem?	The task is complete.	Go to action 4a.
4a Use print media that is not damp. Does this solve your problem?	The task is complete.	Go to action 3a.
4b Replace the drum cartridges. Does this solve your problem?	The task is complete.	Contact Dell.

## Regi Jam (Exit Sensor On JAM)

Action	Yes	No
1 Ensure that the fusing unit is installed properly. Does this solve your problem?	The task is complete.	Go to action 2.

Action	Yes	No
2 Replace the fusing unit, the transfer unit, and the retard roller. Does this solve your problem?	The task is complete.	Go to action 3.
3 Replace the fusing unit. Does this solve your problem?	The task is complete.	Go to action 4.
4 Ensure that the transfer belt unit is installed correctly. Does this solve your problem?	The task is complete.	Go to action 5.
5 Replace the transfer belt unit, the 2nd BTR, and the retard roller. Does this solve your problem?	The task is complete.	Contact Dell.

## Exit Jam (Exit Sensor Off JAM)

Action	Yes	No
1 Ensure the fusing unit is installed correctly. Does this solve your problem?	The task is complete.	Go to action 2.
2 Replace the fusing unit. Does this solve your problem?	The task is complete.	Contact Dell.

## Tray 1/Optional 550-Sheet Feeder Multi-feed Jam

Action	Yes	No
1 Ensure that Tray 1 or the optional 550-sheet feeder is properly inserted. Does this solve your problem?	The task is complete.	If using rough surface paper, go to action 2.  If using another type of print media, go to action 3.
2 Load rough surface paper one sheet at a time. Does this solve your problem?	The task is complete.	Go to action 4.
3 Use print media that is not damp. Does this solve your problem?	The task is complete.	Go to action 4.
4 Fan the print media. Does this solve your problem?	The task is complete.	Go to action 5.
5 Wipe the retard roller in Tray 1 or the optional 550-sheet feeder where the multi-feed occurred with a cloth moistened with water. Does this solve your problem?	The task is complete.	Contact Dell.

## Bypass Tray Multi-feed Jam

Action	Yes	No
1 Ensure the media type you are using. If using rough surface paper, go to action 2. If using another type of print media, go to action 3.	-	-
2 Load rough surface paper one sheet at a time. Does this solve your problem?	The task is complete.	Go to action 4.



<b>Action</b>	<b>Yes</b>	<b>No</b>
3 Use print media that is not damp. Does this solve your problem?	The task is complete. Go to action 4.	
4 Fan the print media. Does this solve your problem?	The task is complete. Go to action 5.	
5 Wipe the retard roller in the tray where the multi-feed occurred with a cloth moistened with water. Does this solve your problem?	The task is complete. Go to action 6.	
6 Decrease the number of print media to be loaded to the bypass tray. Does this solve your problem?	The task is complete. Contact Dell.	

# Noise

Action	Yes	No
1 To specify the cause of the noise, perform the Auto Registration Adjustment. Does this solve your problem?	The task is complete. Go to action 2.	
2 Replace the transfer belt unit, the 2nd BTR, and the retard roller. Does this solve your problem?	The task is complete. Go to action 3.	
3 Replace the fusing unit. Does this solve your problem?	The task is complete. Go to action 4.	
4 Replace the waste toner box. Does this solve your problem?	The task is complete. Go to action 5.	
5 Replace the drum cartridges. Does this solve your problem?	The task is complete. Go to action 3.	
6 Replace the toner cartridge (K). Does this solve your problem?	The task is complete. Go to action 7. (The toner cartridge (K) has been damaged. Replace it with a new one.)	
7 Replace the toner cartridge (Y). Does this solve your problem?	The task is complete. Go to action 8. (The toner cartridge (Y) has been damaged. Replace it with a new one.)	
8 Replace the toner cartridge (M). Does this solve your problem?	The task is complete. Go to action 9. (The toner cartridge (M) has been damaged. Replace it with a new one.)	
9 Replace the toner cartridge (C). Does this solve your problem?	The task is complete. Contact Dell. (The toner cartridge (C) has been damaged. Replace it with a new one.)	

# Digital Certificate Problems

Symptom	Cause	Action
<b>Import</b> cannot be selected on the <b>Security Certificates</b> screen.	SSL communication is disabled.	Create a self-signed certificate and enable SSL.
The certificate cannot be imported.	The time setting is incorrect.	Confirm validity period of the certificate as well as the time setting of the device.
	The certificate file is incorrect.	Confirm whether the password is correct. Confirm whether the file type is PKCS#7/#12 or x509CACert (extension: p7b/p12/pfx/cer/crt). Confirm whether the attribute information (key Usage/Extended key usage) of the certificate to be imported is set correctly.
	The browser is incorrect.	Use Internet Explorer®.
016-404 is displayed when trying to use security functions that require certificates.	The certificate data stored in internal memory is either deleted, corrupt, or is not readable.	Import the certificate and enable the security settings again.
A certificate cannot be set in <b>Security Certificates</b> .	The validity period is invalid.	The validity period of the certificate is invalid. Confirm whether the time setting of the machine is correct, and whether the validity period of the certificate has expired.
	The certificate path is invalid.	The certificate chain (path validation) of the imported certificate may not be correctly validated. Confirm whether all of the high-level certificates (Trusted/Intermediate) have been imported and are not deleted, and whether the validity period has expired.
Although a certificate was imported, it is not displayed on the <b>Security Certificates</b> screen.	The type of the certificate is incorrect.	To import a certificate for use with the device (own device), import the secret key and a certificate of the PKCS#12 (p12/pfx) format as a pair.
Server validation is not operating correctly.	The certificate chain is incorrect when importing.	Although importing a root certificate (Trusted) to use for server authentication, an Intermediate certificate may be required when validating the path.  When executing a certificate file with the certification authority, create the certificate with a format including all paths and then import that certificate.

# Network-related Problems

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## When using SMB

### When you cannot communicate with the machine or other SMB machines

Cause	Check point	Remedy
If <b>Auto Master Mode</b> of SMB is set to <b>On</b> , the number of machines whose information can be stored is limited. The number depends on the network environment.	The machine or other SMB machines cannot be searched from the Network Computers icon.	Confirm the setting of <b>Auto Master Mode</b> of SMB. If the setting is enabled, change it to <b>Off</b> .

## When using TCP/IP

### Windows Vista, Windows 7, Windows 8.1, Windows 10, Windows Server 2008 R2, Windows Server 2012 R2, or Windows Server 2016

#### When you cannot print

Cause	Check point	Remedy
The IP address is incorrect.	Request your network administrator to check the machine's IP address.	Set a correct IP address on the machine.
The volume of the print data sent in an instruction from a computer exceeded the maximum receivable volume when the LPD spool is set to memory spool.	Confirm the memory amount for the LPD spool and the volume of the print data transmitted by an instruction.	If the one file of print data exceeds the memory amount, divide the file so as not to exceed the amount. If the print data is divided into multiple files and exceeds the memory amount, decrease the number of files so as not to exceed the amount.
An unrecoverable error occurred during the printing process.	Confirm whether any error messages are displayed on the control panel.	Restart the machine. Wait until the screen completely goes out to switch on the machine power.
The machine is not set to the transport protocol supported by the computer.	Confirm the transport protocol selected on the machine.	Select the transport protocol supported by the computer.
The machine is trying to process a data format that does not match the data format of the print data transmitted from a computer.	-	Set not to output Ctrl-D.

## When print result is not what was expected

Cause	Check point	Remedy
Selected printer language on the machine does not match the printer language of the print data.	Confirm the selected printer language on the machine and the printer language of the print data.	Select the printer language on the machine to match the print data.
The computer is not using the print driver supplied with the machine (is using another company's print driver).	Confirm whether the print driver on the computer is the one supplied with the machine.	On the computer, select the print driver supplied with the machine. If the print driver is not listed for selection, install the print driver and then select it. Operation is not guaranteed if another company's print driver is used.

## Mac OS X 10.7/10.8/10.9/10.10/10.11

### When you cannot print

Cause	Check point	Remedy
The LPD port is not activated.	Confirm whether the LPD port is activated.	When printing with a printer detected by using Bonjour, enable <b>Port</b> .

## E-mail Features Problems

Symptom	Remedy
Cannot receive e-mail.	Is the e-mail address for the machine configured?
	Are the SMTP server settings configured correctly?
	Is <b>Domain Filtering</b> set?
	Confirm whether your own domain is set to <b>Allowed Domains</b> , on <b>Dell Printer Configuration Web Tool</b> .
	Is the SMTP server operating properly?
	Consult your network administrator.
	Is the mail address correct?
Enter the correct mail address.	
Doesn't the data size exceed the maximum e-mail size?	
Change the maximum e-mail size, or lower the resolution.	
A <b>Confirmation Report - Job Undelivered</b> is output.	Unable to transmit because of an error. Check the Transmission Results in the <b>Confirmation Report - Job Undelivered</b> . If the status code is displayed, refer to "Status Codes".

## Internet/Intranet Connection Problems

### When connection to the Internet/Intranet fails

Cause	Remedy
The Authentication feature used on the remote server is not supported by the machine.	Only Basic Authentication is supported by the machine. The machine does not support NTLM/digest. For security purposes, change to the Authentication feature using SSL.

<b>Cause</b>	<b>Remedy</b>
The remote linkage services used does not support the model or accessories of the machine.	Purchase products/models/accessories supported by the remote linkage services.
The IP address is incorrect.	Confirm the IP address. If the IP address is incorrect, either set a static IP address or resolve the IP address using DHCP or Autonet.
The IP gateway address is incorrect.	Set the correct IP gateway address when connecting to the proxy server, or to a Web server via the IP gateway.
The subnet mask is incorrect.	Set the correct subnet mask corresponding to your environment.
The DNS server address is incorrect.	Confirm the DNS server address.
The DNS server selected cannot resolve the address.	<p>Select a DNS server that can resolve the address.</p> <ul style="list-style-type: none"> <li>• When connecting via the proxy server Set the IP address of a DNS server that can resolve the address of the proxy server.</li> <li>• When not connecting via the proxy server Set the IP address of a DNS server that can resolve the destination address.</li> </ul>
The address that does not use a proxy server is incorrect.	<p>Confirm whether only addresses that do not use a proxy server are set. Even if addresses not through a proxy server are specified using the FQDN, if a server is directly accessed using its IP address, the registered server is not excluded. Set the address not to use a proxy server.</p> <p>Likewise, even if you directly specify an address that does not use a proxy server, if a server is accessed with the FQDN, the registered server is not excluded. Set an IP address with the FQDN not to use a proxy server.</p>
The desired server, or the proxy server is down.	Confirm whether the desired server or the proxy server is operating correctly.
The network cable is not connected, or broken.	Confirm whether the network cable is correctly connected. We recommend using a spanning-tree configuration, with which network disconnection rarely occurs.
Cannot communicate because of overloading of the server application.	Wait for a while and try accessing again.
An error that is not displayed on the control panel occurs.	Even though an error occurs during background processing, no message appears on the control panel. Tap <b>Jobs</b> on the <b>Home</b> screen, or print the Job History Report to confirm the result.
Cannot access the proxy server, firewall, or Web server as a result of access control.	<p>The following types of access control are used. Confirm the configured access control.</p> <ul style="list-style-type: none"> <li>• Address (port) restriction</li> <li>• SSL restriction</li> <li>• User access restriction (including access right levels)</li> <li>• Content block</li> <li>• Scheme restriction (cannot use HTTP etc.)</li> <li>• Transfer data size restriction</li> <li>• Method restriction (cannot use POST etc.)</li> <li>• HTTP header restriction (only accepting specified browsers etc.)</li> <li>• Time restriction (only available during a specific period of time etc.)</li> </ul>

## When connection to a desired Web server fails

Cause	Remedy
The setting to use the proxy server is not configured.	In the environment using the proxy server, you must configure the machine to use the proxy server to connect to a desired Web server. Make sure that you configure the settings to use the proxy server.
The setting to use a proxy server is configured even though the environment does not use a proxy server.	In an environment that does not use a proxy server, such as when connecting to an intranet, do not make the settings to use the proxy server.
The proxy server address is incorrect.	When the settings to use a proxy server are configured, you cannot connect to a desired Web server if the IP address of the proxy server is wrong. Set the correct IP address of the proxy server.
When the proxy server access requires authentication, you cannot connect to the server because the user name or password is incorrect.	Set the user name and password on the machine that allow connection to the proxy server.

## IPv4 and IPv6 Connection Problems

### Unable to connect using an IPv4 address

Symptom	Remedy
When 0 (zero) is prepended to the head of a value for the IPv4 address (for example: 192.0.2.010), connection fails.	Do not prepend 0 (zero) to each value of an IPv4 address.

### Unable to connect using an IPv6 address

Symptom	Remedy
You cannot connect to the machine with the link-local address.	When you specify the machine's link-local address, a scope ID must be appended to the address. For example, when you use Internet Explorer 11 on Windows 7 to access the address "fe80::203:baff:fe48:9010", you must append the Ethernet adapter local area connection number (for example, 8) for Windows 7 to the address as follows: fe80::203:baff:fe48:9010%8
The machine cannot connect to a computer running Windows OS that supports IPv6.	Assign a static IPv6 address to the computer running Windows OS that supports IPv6. Then, register the IPv6 address on the machine as host address to allow communication.
A device outside the router cannot be searched.	When searching for a device outside the router via SMB, directly specify the address. Multicasting is supported only within a local link (FF02::1).
When SSL is enabled on Dell Printer Configuration Web Tool, even if you specify "http://[IPv6 address]", you are not redirected to "https://[IPv6 address]".	When SSL is enabled, directly specify "https://[IPv6 address]".

## Unable to print using an IPv6 address

Symptom	Remedy
On an IPv6 network without a DNS server, a computer running Windows OS that supports IPv6 cannot be connected to a Windows shared printer.	Register the computer name of the machine on the "hosts" file stored on the computer running Windows OS that supports IPv6. For example, register in the following file: C:\Windows\system32\driver\etc\hosts

## Other problems on IPv6 addresses

Symptom	Remedy
Unable to search devices with IPv6 addresses in UPnP.	In an IPv6 environment, use Function Discovery of Web Services on Devices (WSD).
In an IPv6 network with no DNS server installed, authentication fails if an SMB authentication server is specified using the computer name.	Directly specify the IPv6 address to specify the computer name of an authentication server.
IPv6 addresses are not correctly recorded on output job logs.	Use an IPv4 network for correct logging.



# Problems With Installed Optional Accessory

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If an option does not operate correctly following installation or stops working:

- Turn off the printer, wait for 10 seconds, and then turn on the printer. If this does not fix the problem, unplug the printer, and check the connection between the option and the printer.
- Print the configuration report to see if the option is listed in it. If the option is not listed, re-install it.
- Ensure the option is selected in the printer driver you are using.

The following table lists printer's options and corrective actions for related problems. If the suggested corrective action does not correct the problem, call customer service.

<b>Problem</b>	<b>Action</b>
550-sheet feeder	<ul style="list-style-type: none"><li>• Ensure the 550-sheet feeder is correctly installed on the printer. Re-install the feeder.</li><li>• Ensure the print media is loaded correctly.</li></ul>
Wireless Adapter	<ul style="list-style-type: none"><li>• Ensure the wireless adapter is securely inserted to the correct slot.</li></ul>

# Wi-Fi Direct Problems

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<b>Problem</b>	<b>Action</b>
The mobile device cannot discover the printer.	The printer may be connected to another device via Wi-Fi Direct. Disconnect the printer and the device. See "Disconnecting Wi-Fi Direct Network".
The printer cannot disconnect from the device even when the procedure in "Disconnecting Wi-Fi Direct Network" has been performed.	Ensure that the release lever is properly positioned. The device may be automatically reconnecting to the printer. Reset the passphrase for <b>Wi-Fi Direct</b> and disconnect the device.
The network mode of the printer cannot be set to the <b>Ad-hoc</b> mode.	Ensure that <b>Wi-Fi Direct</b> is set to <b>Disable</b> .
<b>Wi-Fi Direct</b> cannot be set to <b>Enable</b> .	Ensure that the network mode is set to the <b>Infrastructure</b> mode. Ensure that the IP mode is set to other than <b>IPv6</b> .

# Other Problems

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<b>Problem</b>	<b>Action</b>
Condensation has occurred inside the printer.	This usually occurs within several hours after you heat the room in winter. This also occurs when the printer is operating in a location where relative humidity reaches 85% or more. Adjust the humidity or relocate the printer to an appropriate environment.

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# Contacting Service

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When you call for printer service, be prepared to describe the problem you are experiencing or the error message that appears.

You need to know the model type and Service Tag number of your printer. See the label located inside the front cover of your printer and write down the Service Tag number.

For details on the location of the Service Tag, see Express Service Code and Service Tag in the "Finding Information".

# Appendix

# SharePoint Connector

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## SharePoint Connector Introduction

The SharePoint Connector provides connectivity to the Microsoft SharePoint Server (MSPS). This application supports SharePoint server versions 2010 and 2013.

### Pre-requisite setup on SharePoint server:

Dell SharePoint application expects the following highlighted additions in SharePoint server's web.config under 'customHeaders' section. The 'web.config' file is located in 'C:\inetpub\wwwroot\wss\VirtualDirectories\[PortName]' on SharePoint 2010 server and SharePoint 2013 server.

```
<system.webServer>
  <httpProtocol>
    <customHeaders>
      <add name="X-MS-InvokeApp" value="1; RequireReadOnly" />
      <add name="Access-Control-Allow-Headers" value="Authorization,Content-Type,SOAPAction" />
      <add name="Access-Control-Allow-Methods" value="GET,PUT,OPTIONS" />
      <add name="Access-Control-Allow-Origin" value="*" />
      <add name="Access-Control-Expose-Headers" value="WWW-Authenticate,Access-Control-Allow-Headers,Access-Control-Allow-Methods,Access-Control-Allow-Origin,Access-Control-Expose-Headers" />
    </customHeaders>
  </httpProtocol>
  .....
  .....
</system.webserver>
```

Dell SharePoint application expects the following Authentication settings:

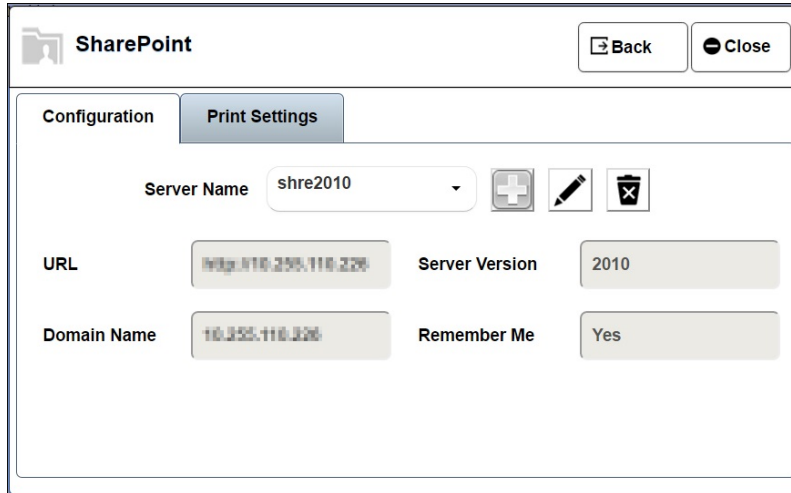
- Disable Anonymous Authentication.
- Enable Basic Authentication.

## Login as Admin

- 1 From the Control panel, select → **SharePoint** → **Admin**. The Admin home page screen appears.

 **NOTE:**

- Admin should login on device to access Admin features in this application.




The screenshot shows the SharePoint Admin Configuration page. At the top, there is a 'SharePoint' header with a folder icon and two buttons: 'Back' and 'Close'. Below the header, there are two tabs: 'Configuration' and 'Print Settings'. The 'Configuration' tab is active. The main content area contains several fields: 'Server Name' is a dropdown menu with 'shre2010' selected, followed by three icons: a plus sign, a pencil, and a trash can. Below this, there are two rows of input fields. The first row has 'URL' with a text box containing 'http://10.255.110.220' and 'Server Version' with a dropdown menu set to '2010'. The second row has 'Domain Name' with a text box containing '10.255.110.220' and 'Remember Me' with a dropdown menu set to 'Yes'.

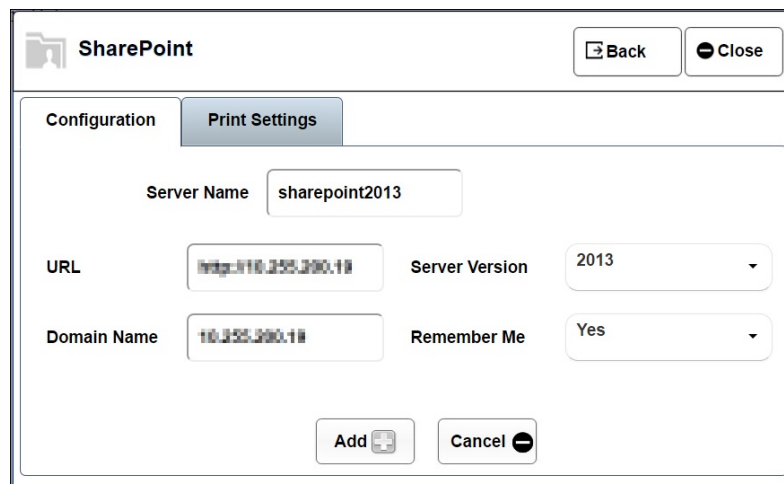
- **Overview of the Admin Page content**

The Admin Page contains the following tabs:

## Configuration

### To add a new MSPS

- 1 Click on **Add Server** icon , enter server name (Server name is an alias name for MSPS URL), MSPS URL, domain name, select server version, Remember Me and Click on **Add** button.




The screenshot shows the SharePoint Admin Configuration page with the 'Add Server' process in progress. The 'Server Name' field is now a text box containing 'sharepoint2013'. The 'URL' field contains 'http://10.255.200.1#', 'Server Version' is a dropdown menu set to '2013', and 'Domain Name' is a text box containing '10.255.200.1#'. At the bottom of the form, there are two buttons: 'Add' with a plus icon and 'Cancel' with a minus icon.


 **NOTE:**

- Setting **Remember Me** as 'Yes' gives "Remember Me" field in the main login page for a normal user.

### **To edit an existing MSPS**

- 1 Select the server name to edit from the Server Name field and click on the **Edit** Server Icon .
- 2 Edit the fields and click on the **Update** button to save the changes.

### **To delete an existing MSPS**

- 1 Select the server name to delete from the Server Name field and click on the **Delete Server** Icon .
- 2 Select **Yes** button from the confirmation dialog to delete the server.

## **Print Settings**

### **Available Print Settings**

<b>Option</b>	<b>Description</b>
Display Print Options	Sets whether or not to show Print Options to Normal User otherwise default print parameters set in this page is considered for printing.
Two-Sided Printing	Sets whether to print on both sides of a sheet of paper.
Output Color	Sets whether to print in color or in black and white.
Print Quantity	Sets the number of copies required for a specific job.

### **Setting the Print feature options**

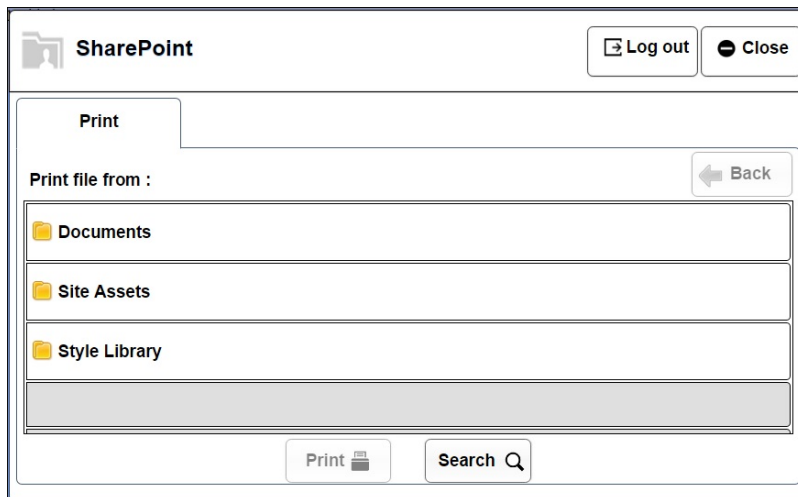
- 1 From Admin page → Print Settings tab.
- 2 Select options from two sided printing and output color.
- 3 Enter number of the copies and click on **Save** button.
- 4 Select **Reset** to revert back all Print Settings options to its default values.

## **Login as User**

- 1 From the Control panel → **SharePoint**.
- 2 Select server name from the **Server Name** list or enter the server **URL**.



3 Enter User name, password and click on **Login** button.



**NOTE:**

- If Shared Document library is already available in MSPS site, then the page will appear by default with **Shared Document** Library where the user can directly print a document. Otherwise, the User home page will appear with available **Document libraries (root folder)** where the user can select any of the folders to print a file.

## Print

### *To print a file from an MSPS server*

- 1 Select the file from a folder to print.
- 2 Click on the **Print** button.


### *Print a file from an MSPS server with print feature settings*

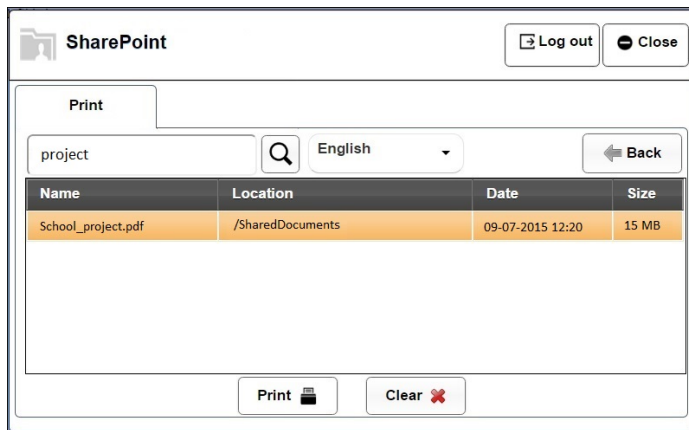
**NOTE:**

- To use this settings, Admin should enable the **Display Print Options** in the Print Setting tab.
- 1 Select the file from a folder to print and click on the **Print** button.
  - 2 Tap on the **Basic Print** feature, set two-sided printing, output color, and number of copies.
  - 3 Click on the **OK** button.

### *To search for PDF files stored in an MSPS site*

- 1 Select **Search** button from the Print tab. This is to search for PDF file names and their content.

2 Enter text in the search box and click on the search icon .



3 Select the file from the displayed list to print.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

## Sleepycat

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call

MD5Final, which will fill a supplied 16-byte array with the digest.

--

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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jpegsrc.vN.tar.gz contains source code, documentation, and test files for release N in Unix format.

jpegrN.zip contains source code, documentation, and test files for release N in Windows format.

jpegaltui.vN.tar.gz contains source code for an alternate user interface for cjpeg/djpeg in Unix format.

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wallace.ps.gz is a PostScript file of Greg Wallace's introductory article about JPEG. This is an update of the article that appeared in the April 1991 Communications of the ACM.

jpeg.documents.gz tells where to obtain the JPEG standard and documents about JPEG-related file formats.

jfif.ps.gz is a PostScript file of the JFIF (JPEG File Interchange Format) format specification.

jfif.txt.gz is a plain text transcription of the JFIF specification; it's missing a figure, so use the PostScript version if you can.

TIFFTechNote2.txt.gz is a draft of the proposed revisions to TIFF 6.0's JPEG support.

pm.errata.gz is the errata list for the first printing of the textbook "JPEG Still Image Data Compression Standard" by Pennebaker and Mitchell.

jdosaobj.zip contains pre-assembled object files for JMEMDOS.ASM. If you want to compile the IJG code for MS-DOS, but don't have an assembler, these files may be helpful.

## Math Library

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## Zlib

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.8, April 28th, 2013

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Jean-loup GaillyMark Adler

jloup@gzip.orgmadler@alumni.caltech.edu

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