Model No. SP 313 Series

Firmware Update Guide

This manual explains how to update the firmware of the following machine:

- Multifunctional Printer: SP 313SFNw V
- Printer: SP 313DNw V

You can download the firmware update package from our Web site.

About the firmware package

The firmware packages on our Web site are each designed to be used for a specific model, and cannot be used for any other model. Confirm the model of your machine, and download the appropriate firmware package for your model.

Disclaimer

The Manufacturer shall not be liable to the customer for any consequential, incidental or indirect damages (including, but not limited to, damages for loss of profits, business interruption or loss of business information, and the like) caused by failure of this software or loss of documents or data, nor for any other damages arising out of the use of this software, even if the customer has been advised of the possibility of such damages.

Before Updating the Firmware

This section explains the operating environment for updating the firmware.

Compatible Operating Systems

Your computer must be running one of the following operating systems: Windows Vista/Server 2003 or later

Backing up the machine's settings

After the firmware update, the machine's settings may return to their factory defaults.

Before you reconnect the machine for the update, we recommend that you back up the machine's settings by accessing the machine using a Web browser from a computer connected via a network.

Also, you can print out lists of scan and fax destinations or a configuration page using a Web browser or the machine's control panel. For details, see the manuals provided with the machine.

Connection

Connect your computer and the machine through a network or directly by USB.

▲ CAUTION:

- We recommend that you update the firmware via USB. If you update the firmware over the network, the machine may receive data over the network such as a print job during the updates, which can interfere with the update process.
- If you are updating the firmware via USB, the printer driver for USB connection must be installed on your computer beforehand. However, if you are updating via a network, no printer driver is necessary.
- Make sure your computer is securely connected to the machine with the USB or network cable that you will be using for the firmware update.
- Disconnect any other cables that are not necessary for the firmware update, such as a telephone cable, from the machine.
- Make sure that your computer does not enter standby or hibernation mode during the update process. Following is a procedure for configuring this setting based on Windows 7 as an example:
 - 1. On the [Start] menu, click [Control Panel].
 - 2. Click [System and Security].
 - 3. Click [Power Options].
 - 4. Click [Change plan settings] on the right side of the item currently selected in [preferred plans].
 - 5. Select [Never] for [Turn off the display:] and [Put the computer to sleep:].
 - 6. Click [Save changes].

Updating the Firmware

This section explains the procedure for updating the firmware.

Follow the procedure carefully.

▲ CAUTION:

- Do not operate the machine using the control panel, access the machine using Web Image Monitor, perform fax transmissions, printing, or TWAIN scanning during the update process.
- The update may take a while to complete. Do not turn off the power during the update. Turn off the power only when "FW Update Done. *** Please reboot the Machine.***" appears in the firmware update tool window.
- Never disconnect the cable you are using for the updates during the update process.

🚼 Important

- When using a computer running on a Windows operating system, you must have an account that has Manage Printers permission. Log on as an Administrators group member to acquire this permission.
- Be sure to print the configuration page both before and after the update. Comparing pre- and post-update configuration pages allows you to check whether or not the update was successful.
- The screens shown in the following procedure are examples based on Windows 7, unless otherwise stated.

Connect your computer securely to the machine with the USB or network cable that you will be using for the firmware update. Disconnect any other non-essential cables.

2 Print the configuration page.

For details about printing the configuration page, see the User Guide. Note the current firmware version (shown under "Firmware Version" on the configuration page).

Double-click the [FwUpdateTool.exe] icon to launch the firmware update tool.

A dialog box with cautionary statements appears.



4 Read the cautionary statements carefully, and then click [OK].

The firmware update tool opens.

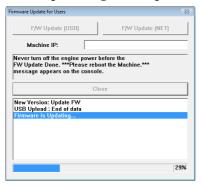
Firmware Update for Users	
F/W Update (USB)	F/W Update (NET)
Machine IP:	
Never turn off the engine power I FW Update Done. ***Please rebo message appears on the consol	oot the Machine.***
Cla	ose

Do not close the update tool unless you are instructed to do so.

5 For a USB connection, click [F/W Update (USB)]. For a network connection, enter the machine's IP address in [Machine IP:], and then click [F/W Update (NET)].

nware Update for Users	
F/W Update (USB)	F/W Update (NET)
Machine IP:	
lever turn off the engine power bel W Update Done. ***Please reboot nessage appears on the console.	
Close	;
New Version: Update FW	

6 Check the firmware update tool window for messages and the update's current percentage of completion.



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The update progress also appears on the machine's control panel.

Update Firmware
Updating: 29 %

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The Alert indicator lights up.



Wait until "FW Update Done.***Please reboot the Machine.***" appears in the firmware update tool window.

Firmware Update for Users	.
F/W Update (USB)	F/W Update (NET)
Machine IP:	
Never turn off the engine power FW Update Done. ***Please rel message appears on the conso	boot the Machine.***
С	lose
New Version: Update FW USB Upload : End of data Firmware is Updating	
FW Update Done. *** Please re	boot the Machine.***
	100%

Click [Close] to close the update tool.

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Also check that the update completion message appears on the machine's control panel.

Completed Update FW

Please Restart the Machine

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The Alert indicator starts flashing.

1 Turn off the power of the machine, and then turn it back on.

After you turn the power back on, the machine performs initialization.

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"Please wait..." appears on the machine's control panel. Wait until "Ready" appears on the machine's control panel.

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All indicators flash twice, and then the power indicator lights up.

If "Ready" does not appear after one minute, or if the power indicator does not light up, the update is not complete. In this case, see page 6 "If initialization does not end following a firmware update".



9 Print the configuration page again.

Confirm that the firmware has been updated by checking its version (shown under "Firmware Version" on the configuration page).

W Reconnect the cables as they were before the update.

Note

 In addition to printing a configuration page, you can check the machine's firmware version by accessing the machine using a Web browser. For details, see the manuals provided with the machine.

Troubleshooting

This section explains solutions to common update-related problems.

If initialization does not end following a firmware update

If "Ready" does not appear after one minute, or if the power indicator dose not light up, the update is not complete.

In this case, you will see the following screen or indication on the machine's control panel.

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Initializing

✤ SP 313DNw V

All indicators start flashing.

If this happens, read page 1 "Before Updating the Firmware" carefully again, and then use the following procedure to recover from the failure and complete the update.

C Important

- To be recovered following a failed update, the machine must be connected to a computer by USB.
- When using a computer running on a Windows operating system, you must have an account that has Manage Printers permission. Log on as an Administrators group member to acquire this permission.
- If you performed the update through a network connection, disconnect the network cable, and then connect the machine to your computer using a USB cable.
- After confirming that" Initializing" has been shown on the machine's control panel for more than one minute or that all the indicators are flashing, double-click the [FwUpdateTool. exe] icon to launch the firmware update tool.
- The subsequent operations are the same as Steps 4 to 10 on page 3 "Updating the Firmware".

Firmware Update Tool Messages

The following table lists the firmware update tool messages that can appear during a firmware update, and explains the likely causes of those messages and what action to take when they appear.

Message	Causes	Solutions
Can't open ROM file. Please check ROM file.	The firmware file (*.brn) or setting file (*.ini) is not stored in the same folder as the update tool. (Note that the setting file only exists when you are using a computer running a Windows operating system.)	Make sure that the firmware file (*.brn) and setting file (*.ini) are stored in the same folder as the update tool. Also, make sure that you do not modify the setting file.
	The path to the location of the update tool is too long.	Make sure that the path to the update tool is not too long. For convenience, save the update tool in a subfolder directly under your computer's C: drive.
Connecting	Your computer is searching the network for the machine.	Wait a while until the machine is found.
Downloaded file is broken! Do NOT use print, scan, fax and copy function at the	The [F/W Update (USB)] or [F/W Update (NET)] button was clicked while the machine was faxing, printing, scanning, or copying.	Wait for the current job to finish, disconnect any unnecessary cables from the machine, and then try again.
same time.	The firmware file is damaged.	Download the firmware package from our Web site again.
FW Update Done. ***Please reboot the Machine.***	The [F/W Update (USB)] or [F/W Update (NET)] button was clicked when the update process was already finished.	The update has already success- fully finished. Reboot the machine to complete the update.
Machine is busy.	The machine is being operated through the control panel.	Cancel any operations being per- formed through the control panel. Put the machine into standby mode, and then perform the update again.
	There is an unsent fax in the machine's memory.There is a received fax waiting to be printed.	Send or delete the unsent fax, and then try again.Print the received fax, and then try again.
	The [F/W Update (USB)] or [F/W Update (NET)] button was clicked when the update was already in progress.	Clicking the [F/W Update (USB)] or [F/W Update (NET)] button during the update process does not interfere with any ongoing update. Ignore this error message and complete the update using the procedure shown in this manual.

(Messages are alphabetically ordered.)

Message	Causes	Solutions
Machine is not ready.	The USB cable is not connected.	Make sure the USB connection be- tween the machine and computer is secure. If this message persists, try an- other USB cable.
	The USB printer driver is not installed in your computer.	Install the USB printer driver in your computer.
	The machine is turned off or an error has occurred.	Turn the machine's power off, wait a moment, and then turn it back on again. Then perform the update again. If this message reappears after you turn the power back on, see the manuals provided with the machine.
	The IP address specified for either the machine or your com- puter is invalid.	Check that both IP addresses are valid.
	The machine is not connected to the network properly.	Check that the machine is prop- erly connected to the network.
Machine loses communication. ***Please check FW Update Done. Then reboot the Machine.***	The firmware update tool is no longer able to acquire update progress from the machine because the connection between the machine and computer has been terminated.	Disconnecting the machine from the computer should not interrupt any ongoing update. Check the machine's control panel to see if the update has completed.
Net Upload : End of data	The firmware has been trans- ferred to the machine success- fully.	Follow the instructions in this manual to complete the update.
Net Upload : FAIL	The network cable was discon- nected immediately after the [F/W Update (NET)] button was clicked.	Turn the machine's power off, wait a moment, and then turn it back on again. Disconnect any unnecessary cables from the ma- chine, and then try again.
USB Upload : End of data	The firmware has been trans- ferred to the machine success- fully.	Follow the instructions in this manual to complete the update.
USB Upload : FAIL	The USB cable was disconnected immediately after the [F/W Update (USB)] button was clicked.	Turn the machine's power off, wait a moment, and then turn it back on again. Disconnect any unnecessary cables from the ma- chine, and then try again.
Wrong Model.	The machine you were trying to update was not the correct model for the firmware you have downloaded from our Web site.	The firmware packages on our Web site are each designed to be used for a specific model, and can- not be used for any other model. Confirm the model of your machine, and download the ap- propriate firmware package for your model.

Control Panel Display Messages (SP 313SFNw V)

The following table lists the control panel display messages that can appear if an error occurred during a firmware update, and explains the likely causes of those messages and what action to take when they appear.

Message	Likely cause	Solution
Initializing	If this message remains on the control panel display for more than one minute following a firmware update, a power failure or similar interruption prevented the update from completing.	See page 6 "If initialization does not end following a firmware update", and use the procedure there to recover from the failure and complete the update. If the recovery fails and the indi- cators continue to flash alternate- ly, contact your sales or service representative.

Control Panel Indicator Patterns (SP 313DNw V)

The indicators of the control panel show the machine's status during and after firmware updates. If an update fails or does not complete normally, refer to the following table to resolve the problem.

Indicator pattern	Likely cause	Solution
All indicators start flashing simultane- ously.	If all indicators start flashing simultaneously after you turn the machine's power back on following a firmware update, the update did not complete due to a power failure or similar interruption.	See page 6 "If initialization does not end following a firmware update", and use the procedure there to recover from the failure and complete the update. If the recovery fails and all indica- tors start flashing simultane- ously again, contact your sales or service representative.

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The proper names of the Windows operating systems are as follows:

The product names of Windows Vista are as follows:

- Microsoft[®] Windows Vista[®] Ultimate
- Microsoft[®] Windows Vista[®] Business
- Microsoft[®] Windows Vista[®] Home Premium
- Microsoft[®] Windows Vista[®] Home Basic
- Microsoft[®] Windows Vista[®] Enterprise

The product names of Windows 7 are as follows:

- Microsoft[®] Windows[®] 7 Home Premium
- Microsoft[®] Windows[®] 7 Home Basic
- Microsoft[®] Windows[®] 7 Professional
- Microsoft[®] Windows[®] 7 Ultimate
- Microsoft[®] Windows[®] 7 Enterprise

The product names of Windows 8 are as follows:

- Microsoft® Windows® 8
- Microsoft[®] Windows[®] 8 Pro
- Microsoft® Windows® 8 Enterprise

The product names of Windows Server 2003 are as follows:

- Microsoft[®] Windows Server[®] 2003 Standard Edition
- Microsoft® Windows Server® 2003 Standard X64 Edition
- Microsoft[®] Windows Server[®] 2003 Enterprise Edition
- Microsoft® Windows Server® 2003 Enterprise X64 Edition

The product names of Windows Server 2003 R2 are as follows:

- Microsoft® Windows Server® 2003 R2 Standard Edition
- Microsoft[®] Windows Server[®] 2003 R2 Standard X64 Edition
- Microsoft[®] Windows Server[®] 2003 R2 Enterprise Edition
- Microsoft® Windows Server® 2003 R2 Enterprise X64 Edition

The product names of Windows Server 2008 are as follows:

- Microsoft[®] Windows Server[®] 2008 Standard Edition
- Microsoft® Windows Server® 2008 Standard Edition without Hyper-V
- Microsoft[®] Windows Server[®] 2008 Enterprise Edition
- 10 Microsoft[®] Windows Server[®] 2008 Enterprise Edition without Hyper-V

The product names of Windows Server 2008 R2 are as follows:

- Microsoft® Windows Server® 2008 R2 Standard Edition
- Microsoft® Windows Server® 2008 R2 Enterprise Edition

The product names of Windows Server 2012 are as follows:

- Microsoft[®] Windows Server[®] 2012 Standard Edition
- Microsoft® Windows Server® 2012 Datacenter Edition
- Microsoft® Windows Server® 2012 Essentials Edition
- Microsoft® Windows Server® 2012 Foundation Edition

Note

• Some of the operating systems whose names appear in the trademark listing above may not be compatible for the use with this machine.