

# Wi-Fi Manual Settings Guide

SP 310<sub>DNw</sub>/311<sub>DNw</sub>



## ❖ Introduction

This manual describes how to connect to a network via a wireless LAN router and an access point manually. In any of the following cases, you need to configure the settings manually:

- The access point or wireless LAN router does not support WPS (Wi-Fi Protected Setup).
- You tried to connect to a network using WPS according to *Wi-Fi Settings Guide*, but it failed.

## ❖ Authentication method and encryption method

The wireless LAN requires an authentication and encryption for security purpose. This section explains about them.

### ★ Important

- You need to select the same authentication method and encryption method that the access point or wireless LAN router is using. You can check them on the settings screen of the access point or the wireless LAN router.



CVW902

- If you change the settings of the access point or wireless LAN router, you need to change the settings for devices such as computers that are connected to them also.

The following methods are available with this machine:

Authentication	Encryption
Open system	None
	WEP
Shared Key	WEP
WPA2-PSK	CCMP (AES)
Mixed WPA2/ WPA *1	TKIP *2
	CCMP (AES) *2

\*1: Supported authentication methods are as follows:

- WPA2-PSK
- WPA-PSK
- WPA2/WPA mixed mode

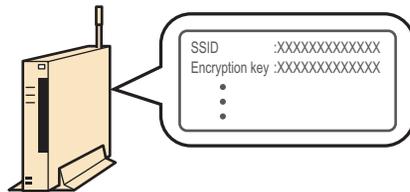
\*2: According to the connected device, either method is automatically selected.

### ↓ Note

- The encryption level becomes increasingly stronger in the following order: [None] → [WEP] → [TKIP] → [CCMP(AES)]

## 1 Confirm the SSID and Encryption key

Confirm the SSID and Encryption key, and write them down on the blank space as shown below. The information is used for the Wi-Fi setting.



CVW901

- If you are not sure where the information is, refer to the instruction manuals of the wireless LAN router or the access point.

### SSID:

Information to identify an access point or wireless LAN router. It may also be referred to as a network name, access point name, etc.

### Encryption key:

A key to encrypt data to exchange with an access point or wireless LAN router. It may also be referred to as a network key, WEP key, WPA/WPA2 pass phrase, PSK, pre-shared key, etc.

## 2 Connection

1 Check that the wireless LAN router and the access point are working correctly.

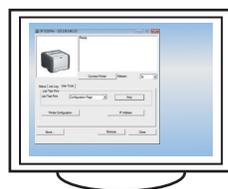
2 Connect to the computer using the USB cable.

Remove the Ethernet cable if connected.

3 Turn on the printer.

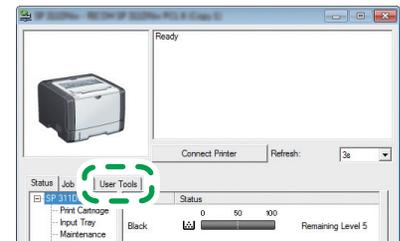
4 Start Smart Organizing Monitor.

For details about the installation, see "Installing Smart Organizing Monitor", *User Guide* on the provided CD-ROM.



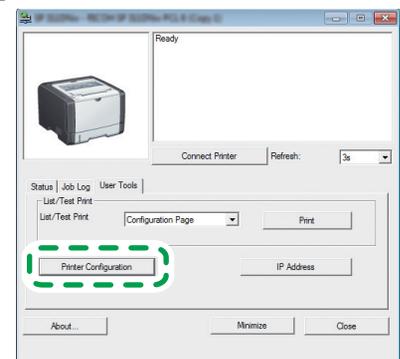
CVW903

5 Click [User Tools] tab.



CVW904

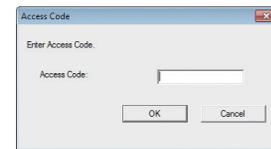
6 Click [Printer Configuration].



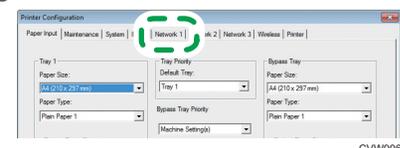
CVW905

7 Enter the access code, and then click [OK].

- The default access code is "Admin".

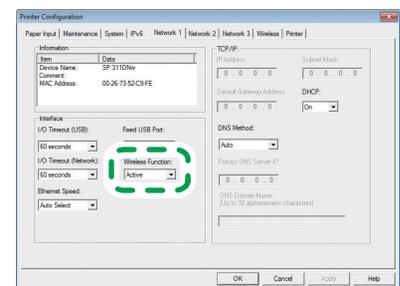


8 Click the [Network 1] tab.



CVW906

9 Make sure [Wireless Function:] is set to [Active].



CVW907

When [Inactive] is set, follow the steps below:

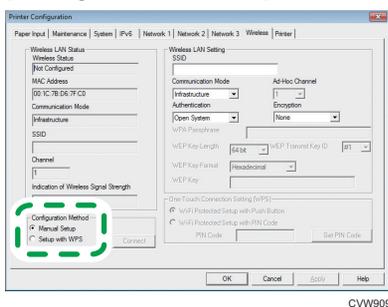
1. Select [Active], and then click [OK].
2. "The settings will become effective after restart of the printer" is displayed on the screen, and then click [OK].
3. Restart the machine, and then go back to the step 6 to continue the setting process after Smart Organizing Monitor has displayed "Ready".



**10** Click the [Wireless] tab.



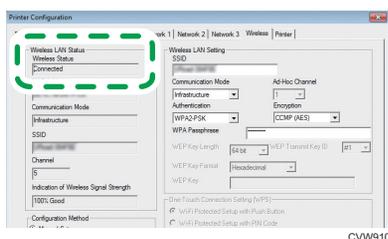
**11** Select [Manual Setup] for [Configuration Method].



**12** Refer to "Connecting to the devices using WPA2-PSK or Mixed WPA2/WPA authentication" or "Connecting to the devices using Open System or Shared Key authentication" described on the right to configure the wireless LAN setting.

**13** Click [Apply], and then click [OK].

**14** When "Connected" is displayed in [Wireless Status] in [Wireless LAN Status], the connection has been established.



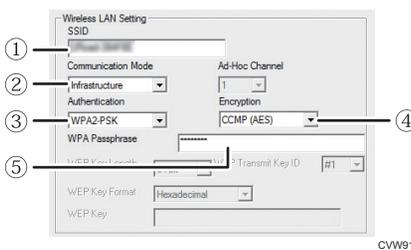
**15** Set an IP address to use the machine as a network printer.

For details about how to set an IP address, see *Network Settings Guide*.

**Note**

- For details about connecting using WPS and Wi-Fi-related terms, see *Wi-Fi Settings Guide*.
- Refer to the wireless LAN router and access point manuals.

❖ **Connecting to the devices using WPA2-PSK or Mixed WPA2/WPA authentication**

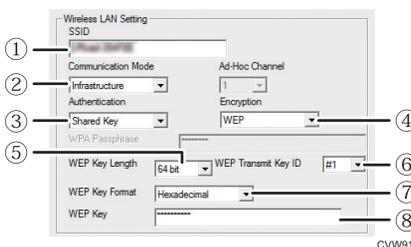


- 1 Enter the SSID.
- 2 Select [Infrastructure].
- 3 Select [WPA2-PSK] or [Mixed WPA2/WPA].
- 4 Select [CCMP(AES)].
- 5 Enter the WPA Passphrase.

**Note**

- In Mixed WPA2/WPA, the authentication method and encryption method are determined according to the connected wireless LAN router or access point. Select Mixed WPA2/WPA when the connected device's authentication method is WPA-PSK or TKIP is used as an encryption method.

❖ **Connecting to the devices using Open System or Shared Key authentication**



- 1 Enter the SSID.
- 2 Select [Infrastructure].
- 3 Select [Open System] or [Shared Key].
- 4 Select [WEP].  
Do not select [None] except in special circumstances. If selected, the security system will not work.
- 5 Select [64 bit] or [128 bit].
- 6 When you register multiple encryption keys, select a registration number between [#1] and [#4].
- 7 Select [Hexadecimal] or [ASCII].
- 8 Enter the WEP key.

For 5 and 7, refer to the following:

WEP key	5 WEP Key Length	7 WEP Key format
5 alphanumeric characters	[64 bit]	[ASCII]
10 alphanumeric characters	[64 bit]	[Hexadecimal]
13 alphanumeric characters	[128 bit]	[ASCII]
29 alphanumeric characters	[128 bit]	[Hexadecimal]

## Troubleshooting

### Connection Problems

If problems occur even after you configure the connection settings again, check the following:

❖ **Are the wireless LAN router and the access point placed in an area in which they can receive radio waves?**

- The area in which the devices can receive radio waves varies depending on the structure of the building. If the machine is away from the wireless LAN router or the access point, place it closer to either of them. Then connect the machine to the devices.

❖ **Is [Wireless LAN Setting] configured correctly?**

- Refer to the above figure and check that the settings are correctly configured. The SSID and encryption key are configured correctly?

### Connection has Succeeded but the Wireless LAN Cannot be Used

If a connection has been established but the wireless LAN cannot be used, check the following:

❖ **Are the IP address settings configured correctly?**

- See *Network Settings Guide* to configure the IP address settings.

❖ **Check that an Ethernet cable is not connected to the machine.**

- If the machine is connected to the network using an Ethernet cable, the Ethernet connection is enabled. To use the wireless LAN, disconnect the Ethernet cable from the machine.

❖ **Connection may fail due to Radio wave interference?**

- If there is another wireless network nearby, the wireless connection may fail. Wait a moment, and then connect to the network again.