

All-In-One Tool V2 User Manual



All-In-One Tool

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About This Manual

Thank you for using the SATO All-In-One Tool software.

This document describes only the information and instructions related to All-In-One Tool functions. For more details on other printer operations and settings, please refer to each printer's operator manual.

Symbols

This document uses the following symbols:

Item	Description
 Warning	The Warning symbol indicates that you can cause death or serious injury if you do not follow the instructions or procedures.
 Caution	The Caution symbol indicates that you can cause injury or property damage if you do not follow the instructions or procedures.
 Note	The Note symbol indicates useful and supplemental information that you should know.
 Reference	The Reference symbol indicates the link of relevant information.



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Introduction

Overview

SATO All-In-One Tool is a printer management utility that allows users to configure SATO printers seamlessly across the system-wide infrastructure.

Whether printers are connected via USB, Ethernet or wirelessly, SATO All-In-One Tool offers users the ability to easily configure the printers to meet users' needs.

The SATO All-In-One Tool for printer remote operation has been developed to achieve the following goals:

- To simplify the SATO printer configuration and deployment for our partners and users
- To allow remote configuration and operation of SATO printers that are compatible with this application from a central location
- To consolidate as many of the separate software printer utilities as possible into one integrated application

Features

The SATO All-In-One allows you to actively manage your SATO printers from one place with features such as:

- **Multi-lingual Display**

All-In-One Tool is available in English, Simplified Chinese* and Japanese* languages, offering added convenience and usability for users.

* Not available at this moment until further notice.

- **Centralized Management**

View and manage settings such as print method, resolution, speed and other settings of all printers at one glance.

Ideal for IT team or headquarters to manage printers across networks, regardless of where the printers are located globally.

- **Settings Download and Cloning**

Users can download or clone printer-specific settings to a single printer or to multiple printers at one time, thus saving time in printer configuration.

- **Multiple Interface Connectivity**

Manage SATO printers connected via different interfaces such as LAN, WLAN or USB.

- **Customizable Fonts and Graphics**

Users can download custom fonts and graphics to printer memory, thus optimizing print strings and enhancing overall throughput.

- **Automated Software Update for Peace of Mind**

All-In-One Tool automatically checks for new updates and prompts users when a new update is available, each time the application is launched.

This offers peace of mind as users do not have to worry about the application is outdated.

- **Intuitive Auto-Discovery and Printer Configuration for Improved Productivity**

Auto-discover and configure your fleet of SATO printers. Manage printers across networks, regardless of where they are located throughout the world.

- **Save & Apply Printer Configuration for Greater Efficiency**

Users can select printer settings to be saved as the desired configuration and then apply them to a single printer or multiple printers at one go.

This helps users save time and enhance efficiency, especially when configuring more than one printer.

- **Login for Enhanced Security**

All-In-One Tool offers users the ability to log in to the application using email and authentication code for enhanced security.

By logging in, the user can optimize printer management as the user will be able to access advanced features such as 'Save & Apply Printer Configuration'.

- **App Logging for Continuous Improvement**

All-In-One Tool collects users' usage data to ensure that our application is designed to meet our users' needs.

System Requirements

The minimum system requirements for the SATO All-In-One Tool are

- A PC running Windows 10 or later, 64-bit, with at least 1 GB of storage space
- At least one supported model of SATO printer that can connect to the PC running this application
- The PC running this application should have internet access

Supported Models

The following models of SATO printers* are supported by the current version of the SATO All-In-One Tool:

- CL4NX/CL4NX Plus/CL4NX-J/CL4NX-J Plus series
- CL6NX/CL6NX Plus/CL6NX-J/CL6NX-J Plus series
- CT4-LX/CT4-LX-HC/HC4-LX series
- FX3-LX
- PW208NX/PW208mNX series

* Printer availability differs across countries. Please contact your SATO reseller or technical support center for more information.

All-In-One Tool is undergoing continual refinement, and it is expected that other SATO printer models will be supported in future, in line with customer demand.



- For SATO printers not supported by this application, you may use the previous version of All-In-One Tool. Please contact your SATO reseller or technical support center for more information.
-

Getting Started

Installation

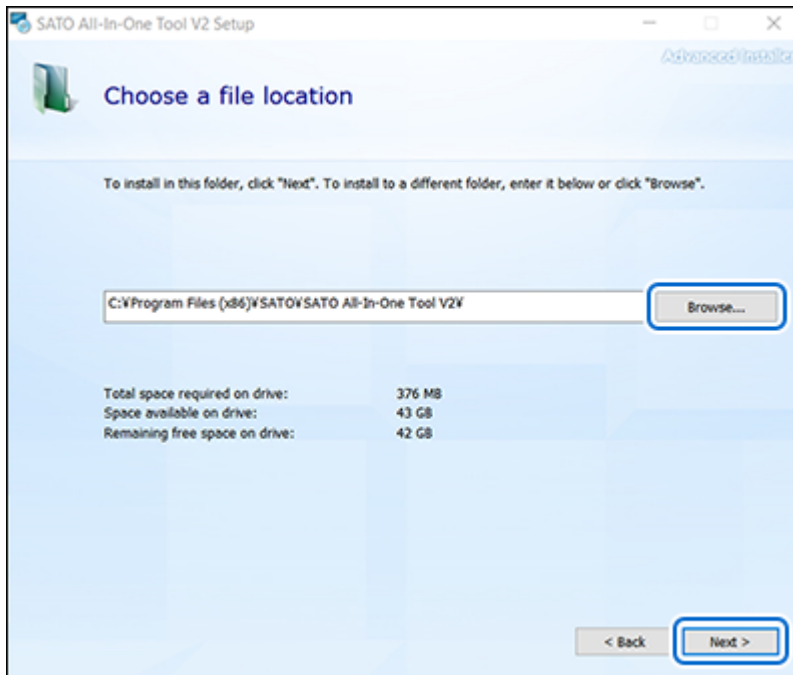
Download the All-In-One Tool V2 installation software from your local SATO website, <https://www.sato-global.com/drivers/redirect.html>.

After obtaining the installation software, double-click on the setup file to install the application.

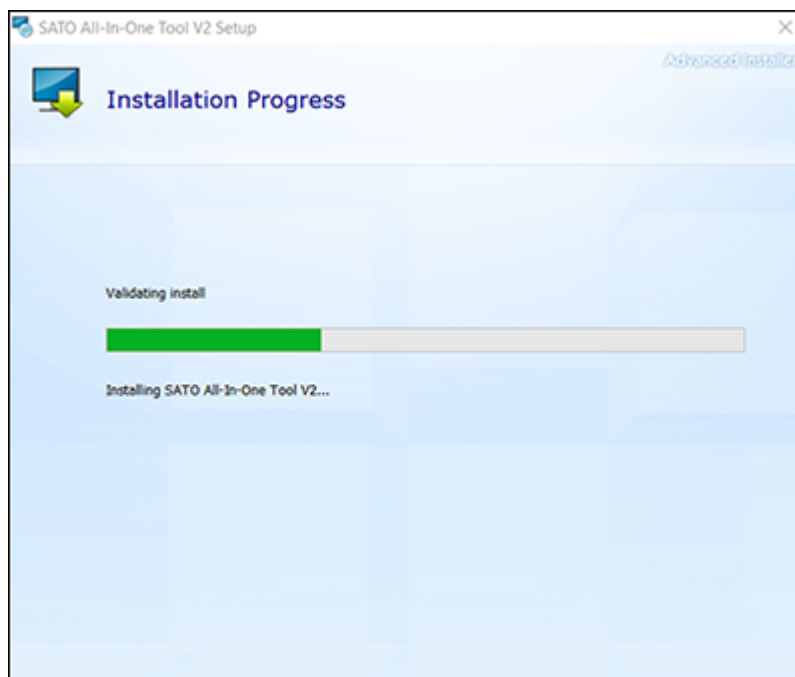
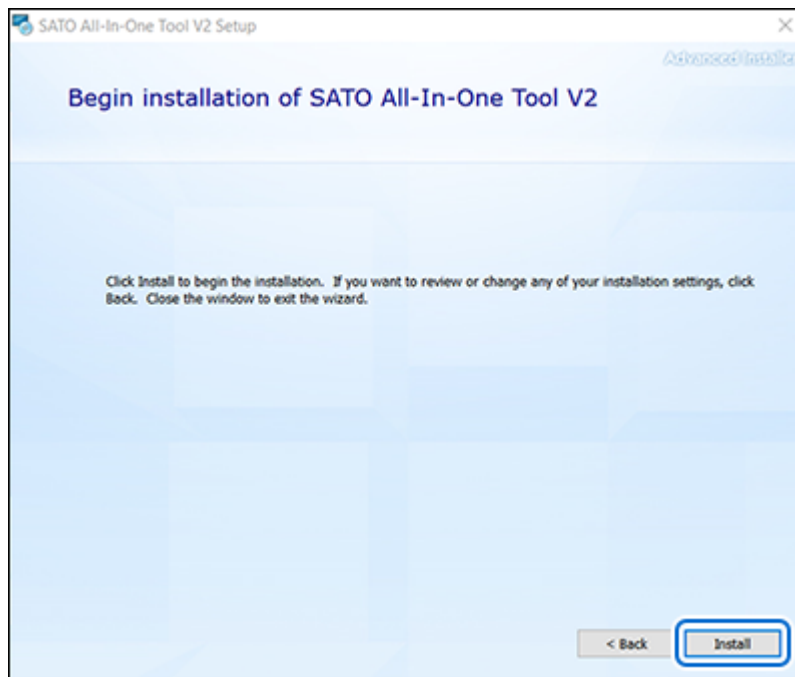
1. Click [Next].



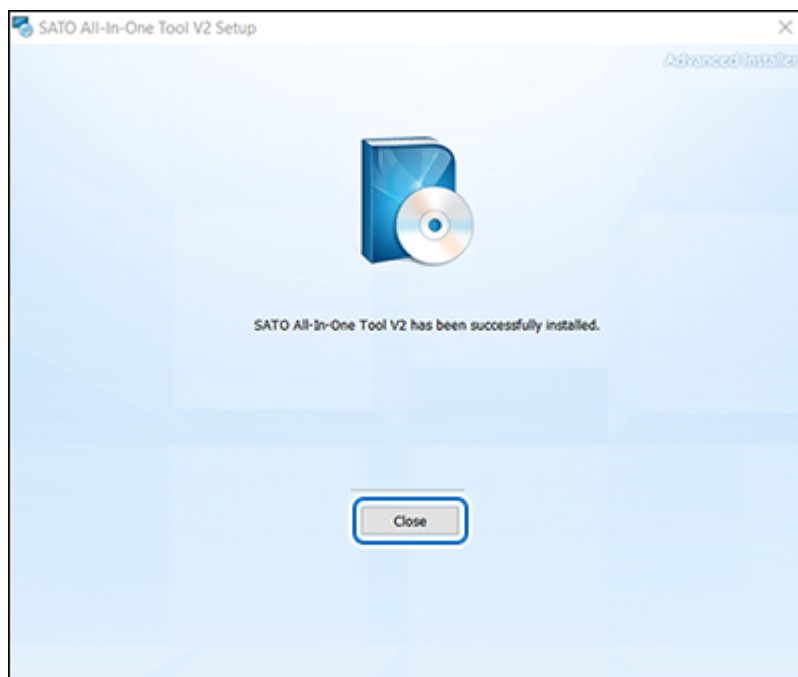
2. Choose a location to install the application and click [Next].



3. Click [Install] to start the installation.



4. Click [Close] upon the successful installation.



The application can then be opened from the [Start] > [SATO] > [SATO All-In-One Tool V2].

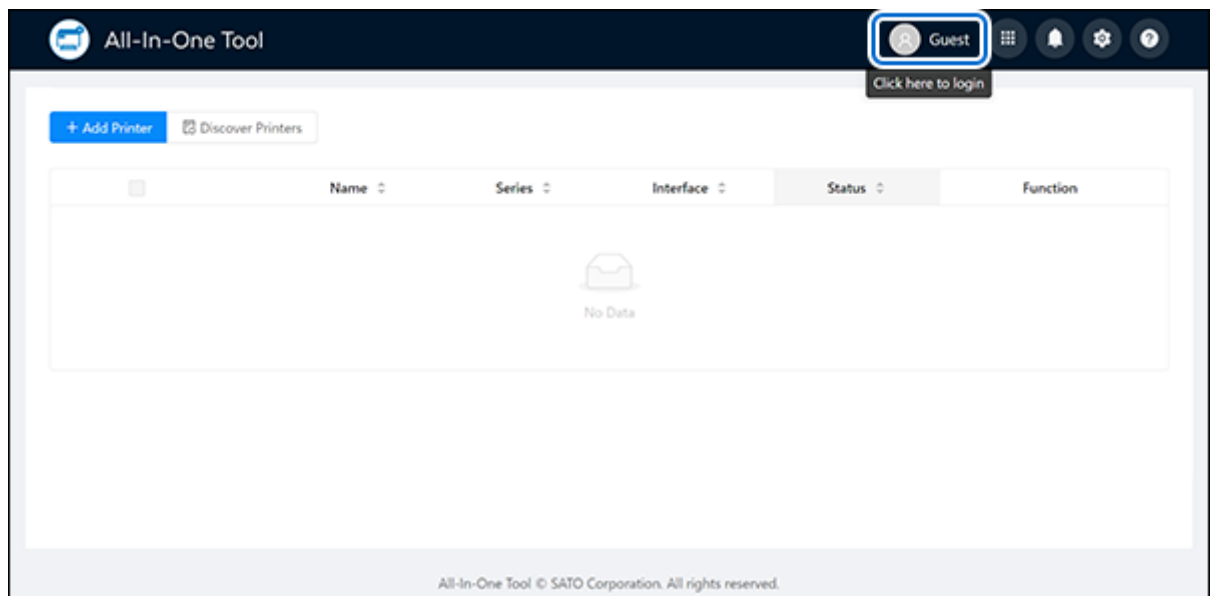
Signing Up/Logging In

When you use All-In-One Tool for the first time, you are a guest and will have limited access. Users are encouraged to sign up and log in with their accounts so they can have full access to the functionality of this application.

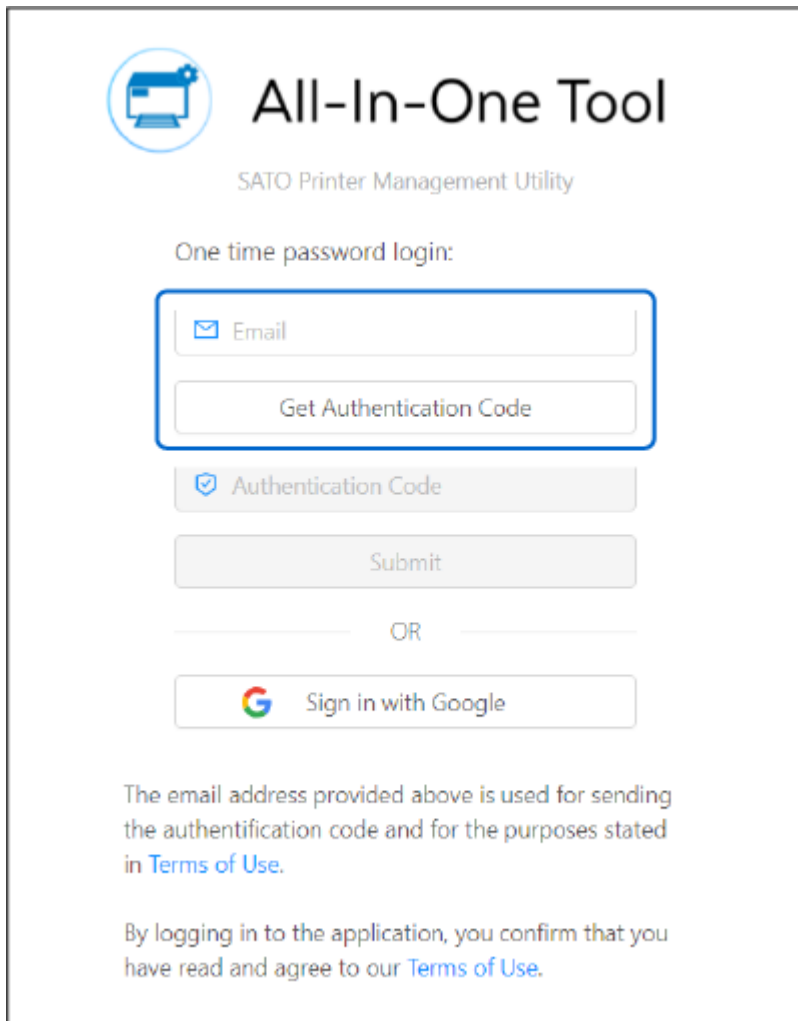
You can log in using your email address with our one-time authentication code. Or you can log in with your Google account.

The following procedure shows you logging in using your email address with our one-time authentication code.

1. Click the User icon on the upper right.



2. Enter your email address and click [Get Authentication Code].



 **All-In-One Tool**
SATO Printer Management Utility

One time password login:

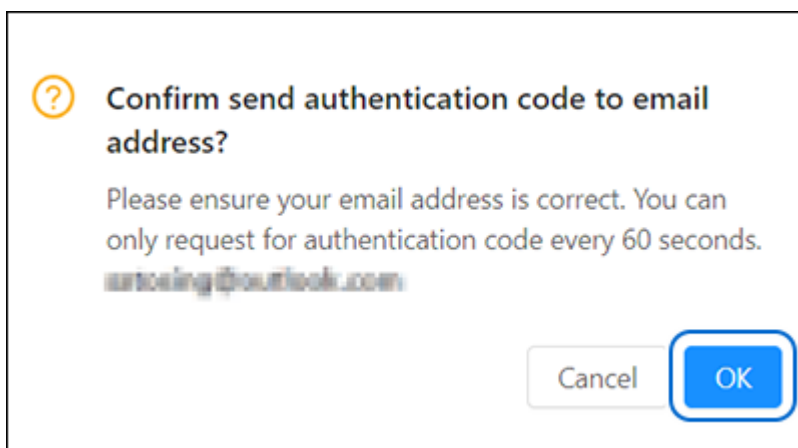
OR



The email address provided above is used for sending the authentication code and for the purposes stated in [Terms of Use](#).

By logging in to the application, you confirm that you have read and agree to our [Terms of Use](#).

An email confirmation dialog is shown.

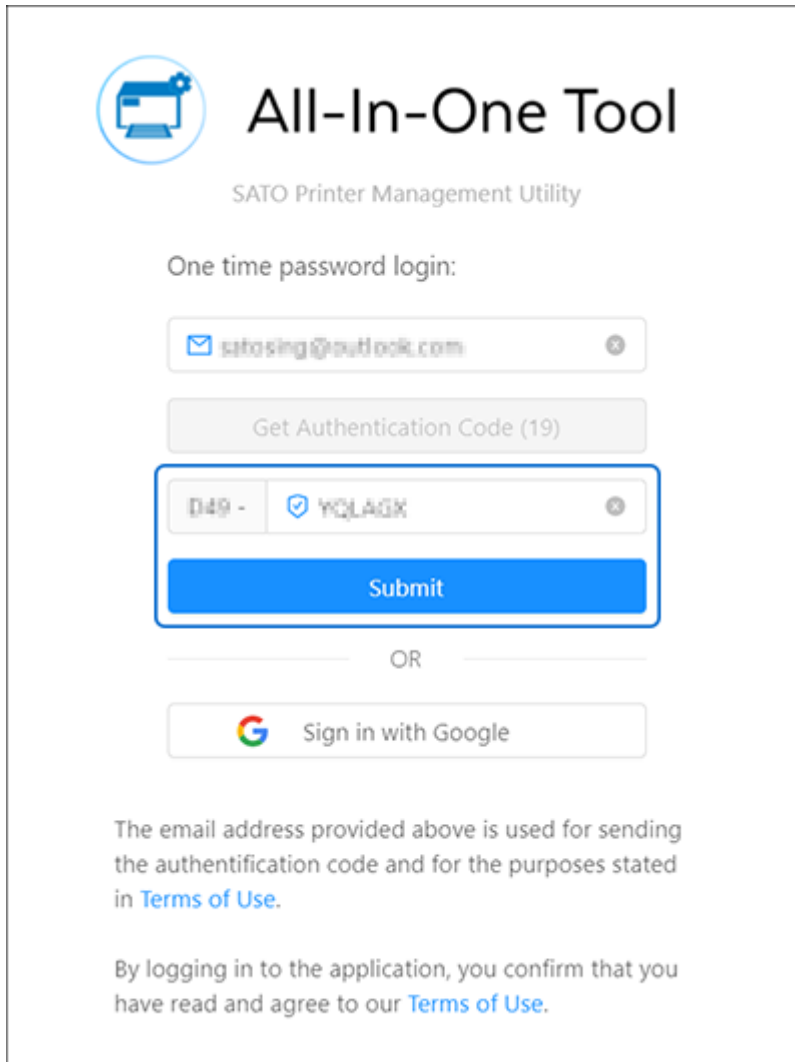


 **Confirm send authentication code to email address?**

Please ensure your email address is correct. You can only request for authentication code every 60 seconds.
`uniceking@outlook.com`

3. Confirm your email address and click [OK].
4. You will receive an email with the authentication code sent from the system. Check your mailbox to get the authentication code from your email.

5. Enter the last 6 characters of the authentication code with the first 3 characters identical to the login dialog.



 **All-In-One Tool**

SATO Printer Management Utility

One time password login:

Get Authentication Code (19)

Submit

OR

 Sign in with Google

The email address provided above is used for sending the authentication code and for the purposes stated in [Terms of Use](#).

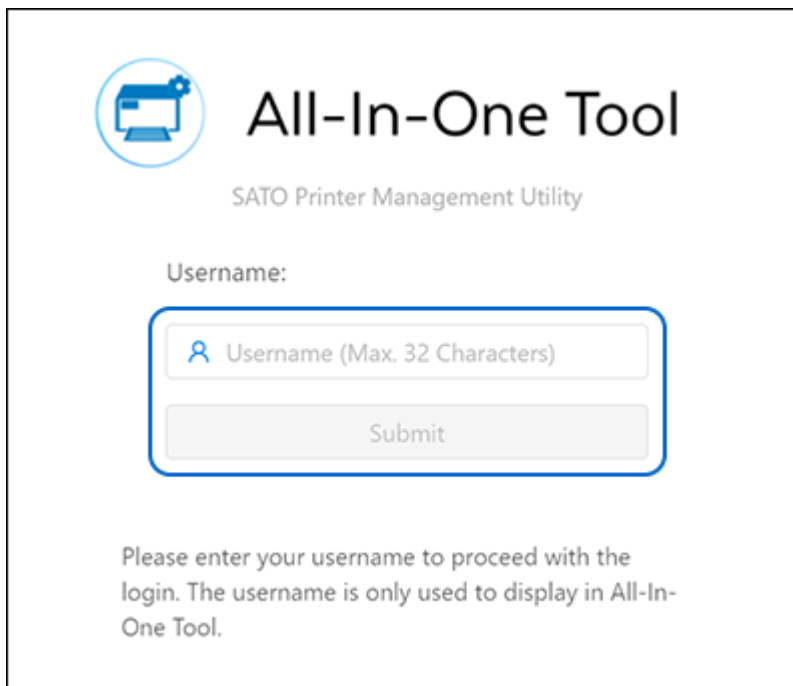
By logging in to the application, you confirm that you have read and agree to our [Terms of Use](#).



- You need to enter the authentication code within 20 minutes after receiving the email. If the code is expired, click [Get Authentication Code] again to receive another new code.

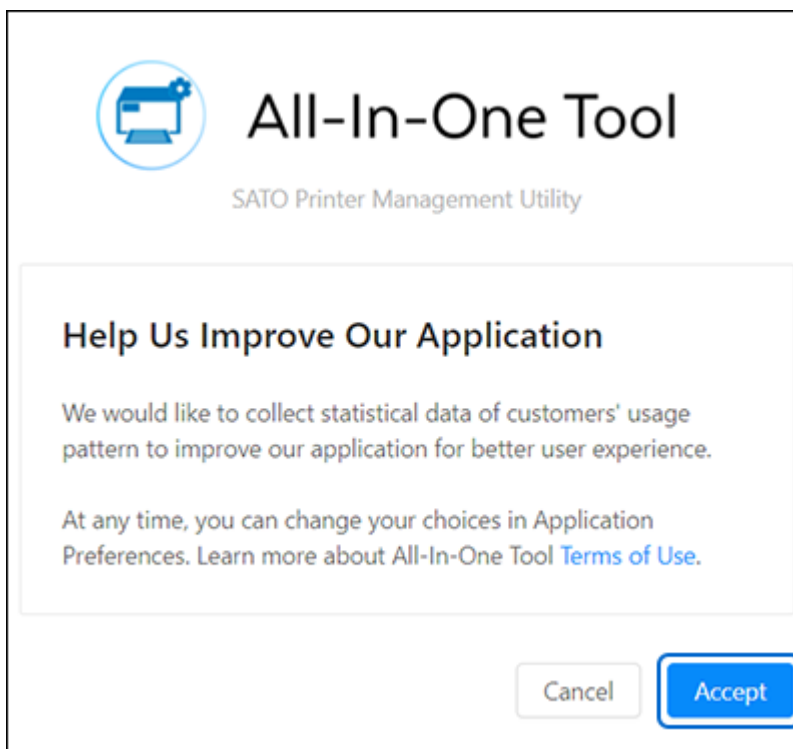
6. Click [Submit].

7. Enter your Username to be registered in All-In-One Tool and click [Submit].



The screenshot shows the login interface for the 'All-In-One Tool'. At the top left is a blue circular icon containing a printer and a gear. To its right is the title 'All-In-One Tool' in a large, bold, black font, followed by the subtitle 'SATO Printer Management Utility' in a smaller, grey font. Below this, the label 'Username:' is positioned above a text input field. The input field has a blue border and contains the placeholder text 'Username (Max. 32 Characters)' with a small blue person icon to its left. A grey 'Submit' button is located directly below the input field. At the bottom of the form, a paragraph of text reads: 'Please enter your username to proceed with the login. The username is only used to display in All-In-One Tool.'

The customers' usage logging consent dialog is shown.



The screenshot displays a consent dialog box for the 'All-In-One Tool'. It features the same header as the previous screen: a blue printer/gear icon, the title 'All-In-One Tool', and the subtitle 'SATO Printer Management Utility'. The main content area is enclosed in a light grey rounded rectangle and is titled 'Help Us Improve Our Application'. Below the title, the text states: 'We would like to collect statistical data of customers' usage pattern to improve our application for better user experience.' This is followed by another line of text: 'At any time, you can change your choices in Application Preferences. Learn more about All-In-One Tool [Terms of Use](#).' At the bottom right of the dialog, there are two buttons: a grey 'Cancel' button and a blue 'Accept' button with white text.

8. Click the link to read the “[Terms of Use](#)” and click [Accept] to proceed.

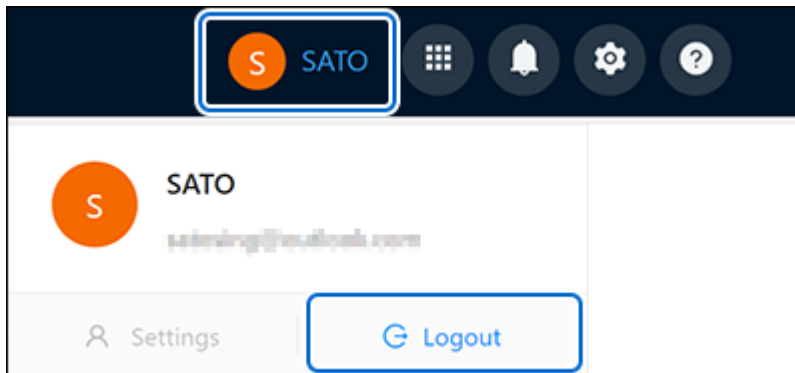


- After signing up, you can change your choice and disable the [Application Logs] setting on the [Application Preferences] page.
-

Logging Out

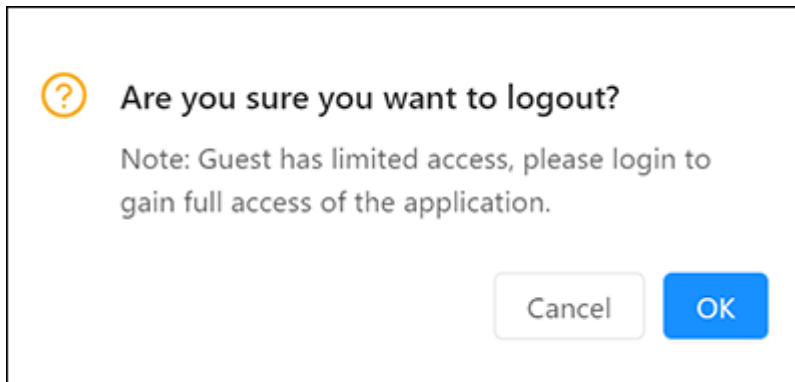
1. Click the User icon on the upper right.

A dialog shows the user login email and a [Logout] button.



2. Click [Logout].

A logout confirmation dialog is shown.



3. Click [OK] to proceed.

Adding a Printer

Only SATO printers, specifically those supported by this All-In-One Tool, can be detected and added. Currently, the following interfaces are supported:

- LAN (Wired and Wireless, TCP/IP)
- USB (Plug & Play)

Before adding the printer, connect the printer physically to the PC or network. Please refer to the operator manual of each printer for details on the connection.

The All-In-One Tool provides two methods for detecting and/or adding compatible printers to the system:

[Adding a Printer via Auto-Discovery](#)

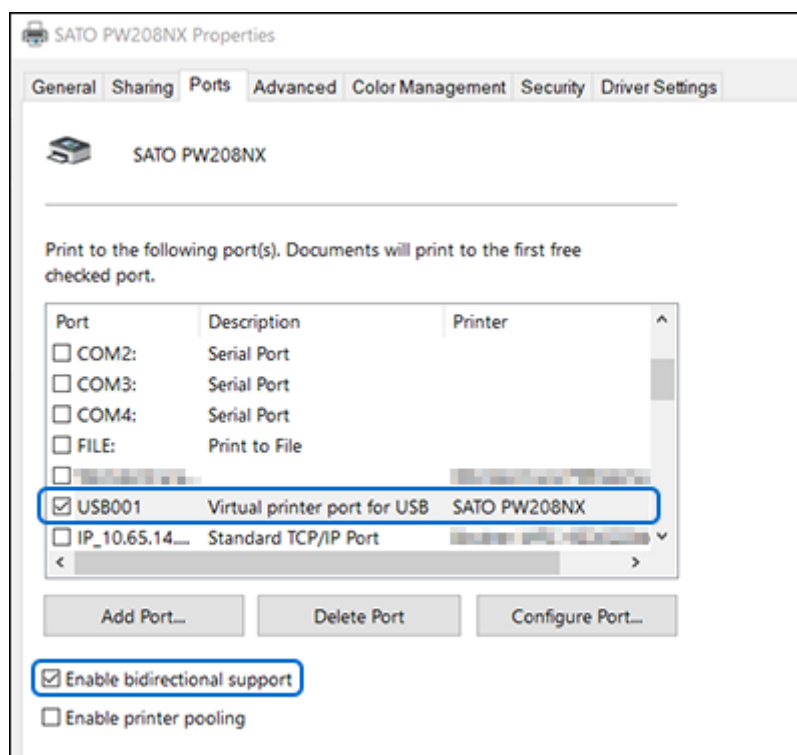
[Adding a Printer Manually via Supported Interface Settings](#)

In any of the above modes, the system will attempt to handshake with the target printer(s) and issue an appropriate command to retrieve the printer firmware information. If the handshake is successful, the detected printer(s) will be presented on the printer page.



When All-In-One Tool tries to connect to the printer, it is important to ensure that there is no other application (such as a printer driver) using the printer at the same time.

For example, a printer driver that is actively connecting to the PW208NX via the USB port will cause connection problems to the All-In-One Tool with this printer.



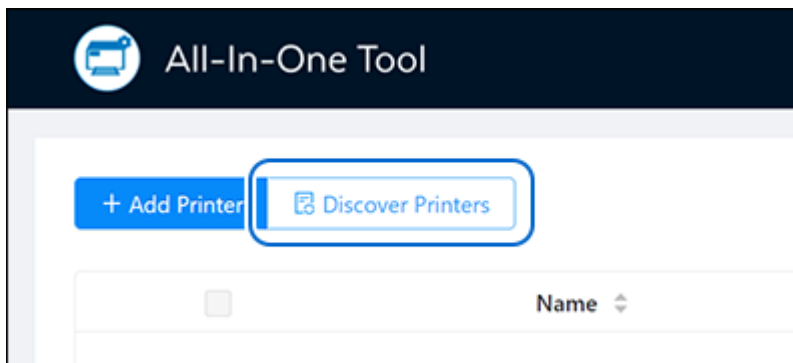
Adding a Printer via Auto-Discovery

The All-In-One Tool can automatically detect SATO printers connected via the USB interface and the standard LAN/WLAN interface within the network system.



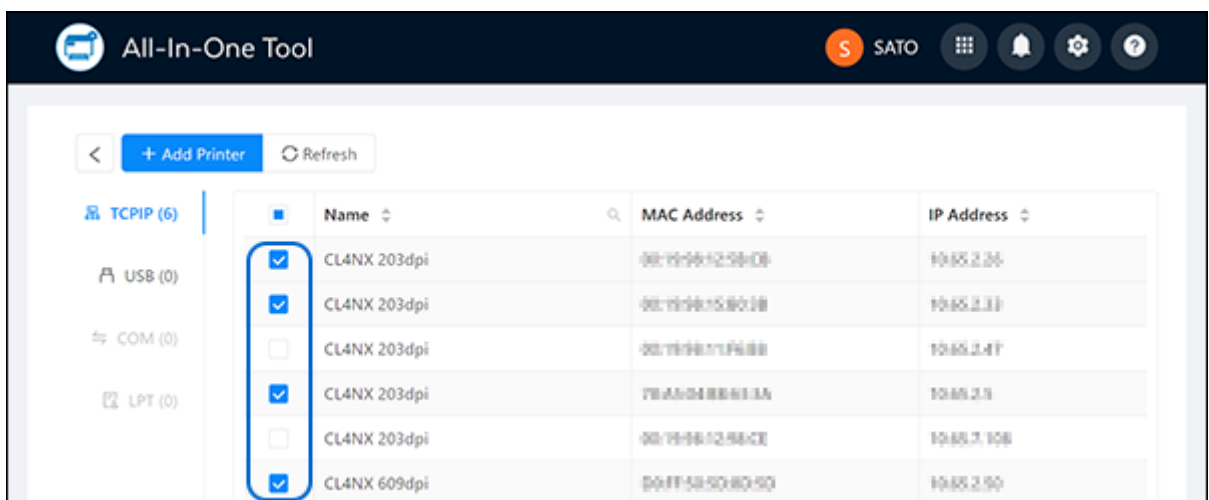
- Consult your IT to make sure your printers are successfully connected to your network.

1. On the printer page, click [Discover Printers].

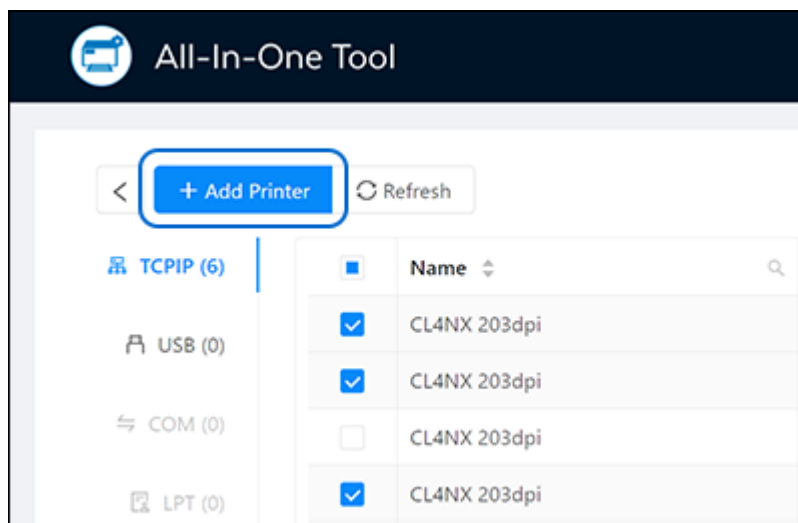


The All-In-One Tool starts scanning and lists out all the printers connected to the network system.

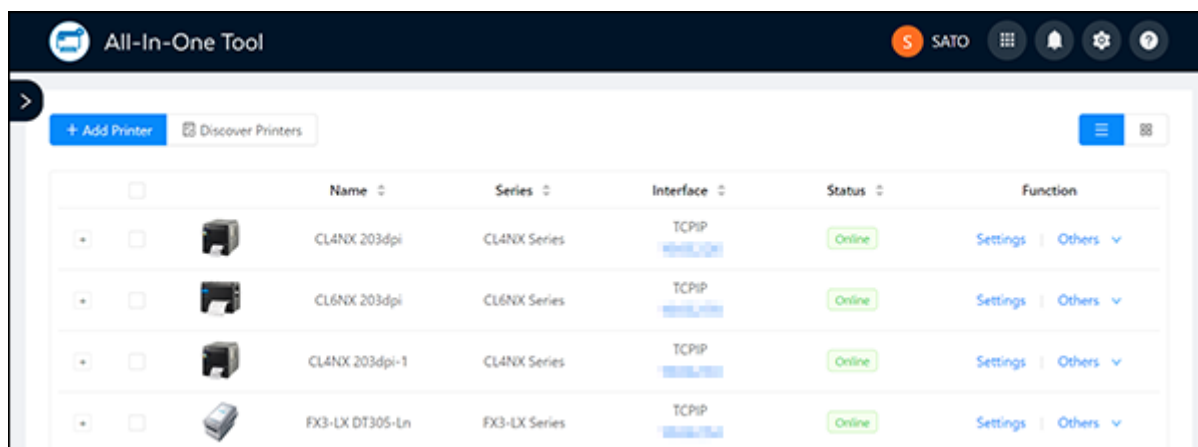
2. Select the check box of the printers you want to add.



3. Click [Add Printer].



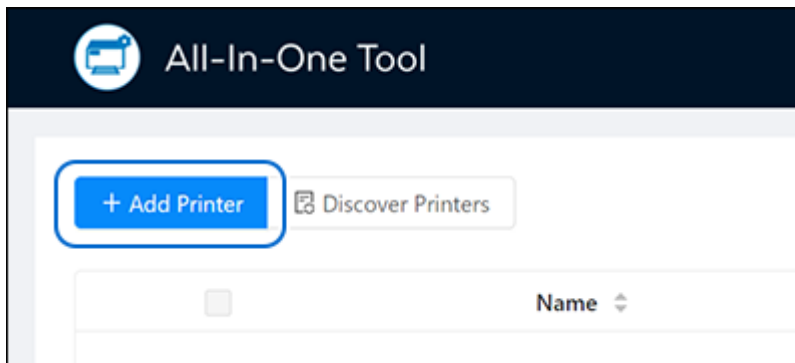
The printers are added to the printer page.



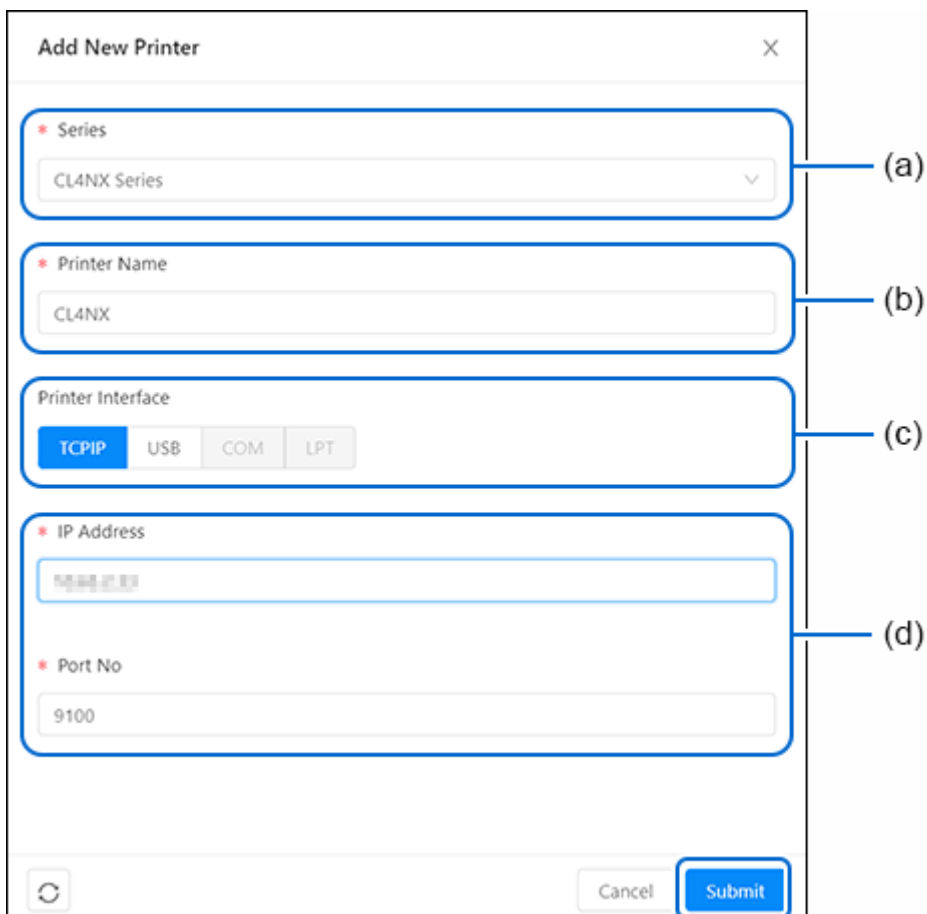
Adding a Printer Manually via Supported Interface Settings

You can add a new printer to the All-In-One Tool by specifying its series, printer name, printer interface, IP Address and port number, and USB port.

1. On the printer page, click [Add Printer].

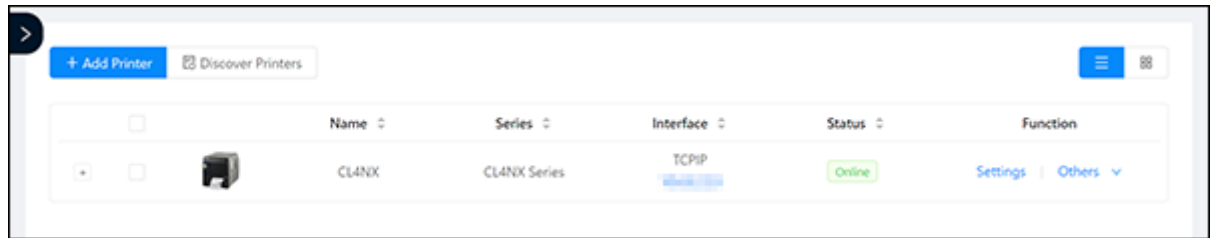


2. Specify the printer series (a), printer name (b), printer interface (c), and various required setting items for the selected interface (d).

The screenshot shows the 'Add New Printer' dialog box. It has a title bar with 'Add New Printer' and a close button (X). The dialog contains several fields: a 'Series' dropdown menu with 'CL4NX Series' selected, labeled (a); a 'Printer Name' text field with 'CL4NX' entered, labeled (b); a 'Printer Interface' section with four buttons: 'TCPIP' (selected), 'USB', 'COM', and 'LPT', labeled (c); an 'IP Address' text field with '192.168.1.1' entered, labeled (d); and a 'Port No' text field with '9100' entered. At the bottom, there is a refresh button (circular arrow), a 'Cancel' button, and a 'Submit' button.

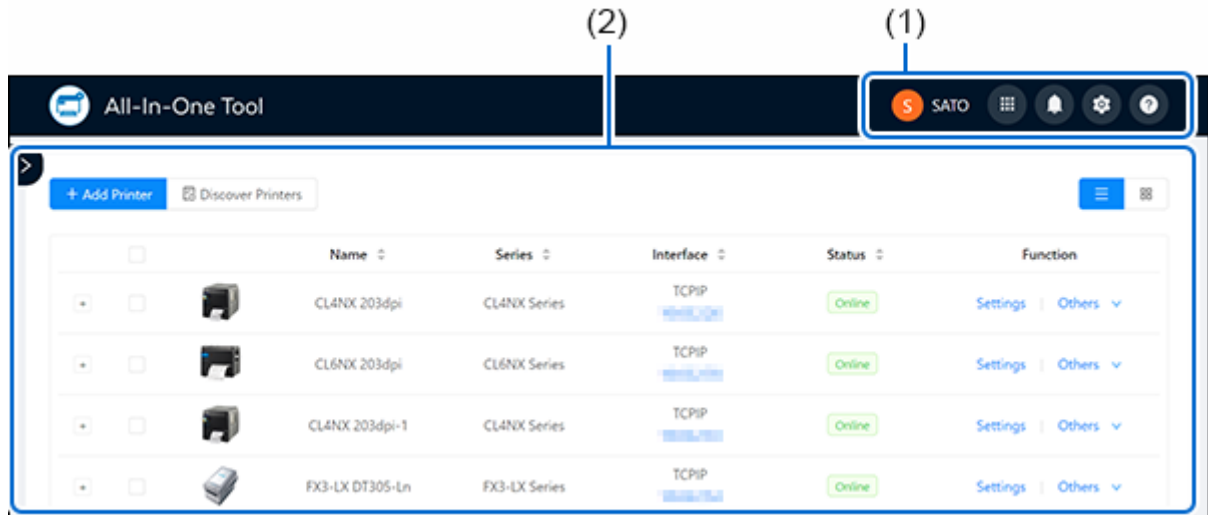
3. Click [Submit].

The printer is added to the printer page.



Navigating the Application

When you open the SATO All-In-One Tool application, the default is to show the printer page.



(1) [Top Toolbar](#)

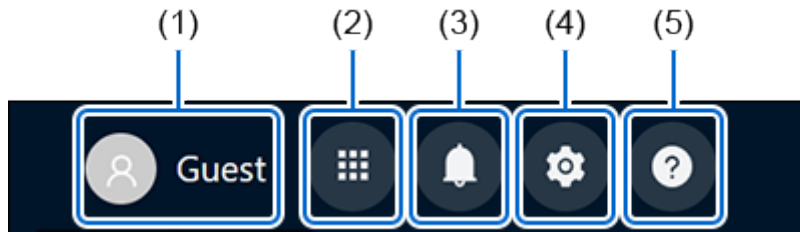
The top toolbar menu allows you to log in/out, access various useful apps, setting preference, view notifications and information on the latest updates.

(2) [Printer Page](#)

The printer page allows you to view and manage all the registered printers remotely. You can navigate from the printer page to other pages for detailed printer information, configuration and separate printer software utilities.

Top Toolbar

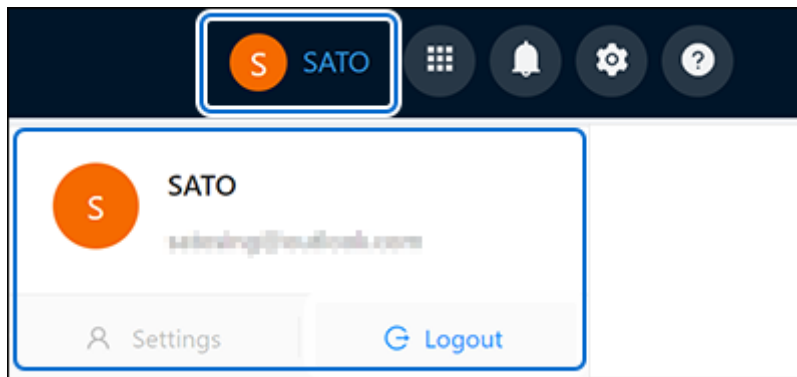
The toolbar at the top of the All-In-One Tool contains the following functions.



(1) User icon

You can click to sign up or log in to have full access to the functionality of this application. After logging in, the username is changed from [Guest] to your login username.

You can click to see the user login email and a [Logout] button.



👉 Refer to [Signing Up/Logging In](#) for more details on the login operation.

👉 Refer to [Logging Out](#) for more details on the logout operation.

(2) [More Apps] icon

You can access more useful functions like Unit Converter, Send SBPL to Printer Driver, Graphic Conversion, etc.

👉 Refer to [More Apps](#) for more details on the operation.

(3) [Notifications] icon

You can view any notification from the All-In-One Tool.

(4) [Preferences] icon

You can manage the general settings of the application.

👉 Refer to [Application Preferences](#) for more details on the operation.

(5) **[What's New] icon**

You can view the updated information of the current application version.



Refer to [What's New](#) for more details on the operation.

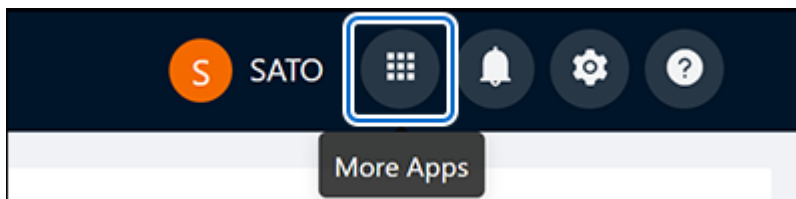
More Apps

The following functions are available:

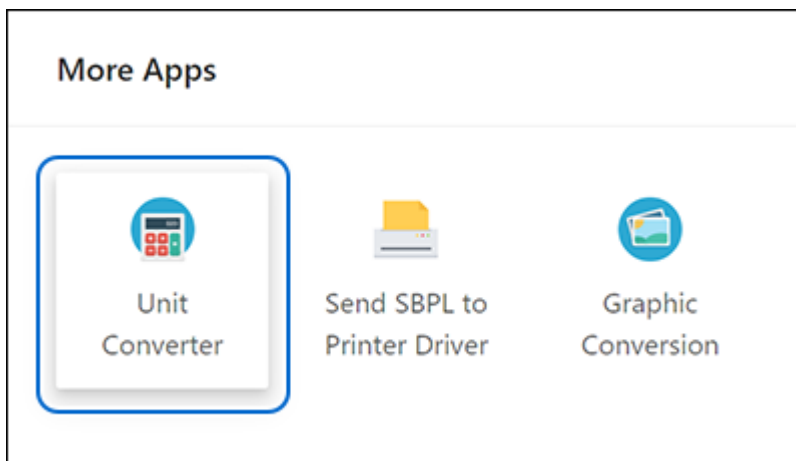
[Unit Converter]

This function allows users to perform unit conversion among dots, mm, cm, inch and hex, in the corresponding resolution.

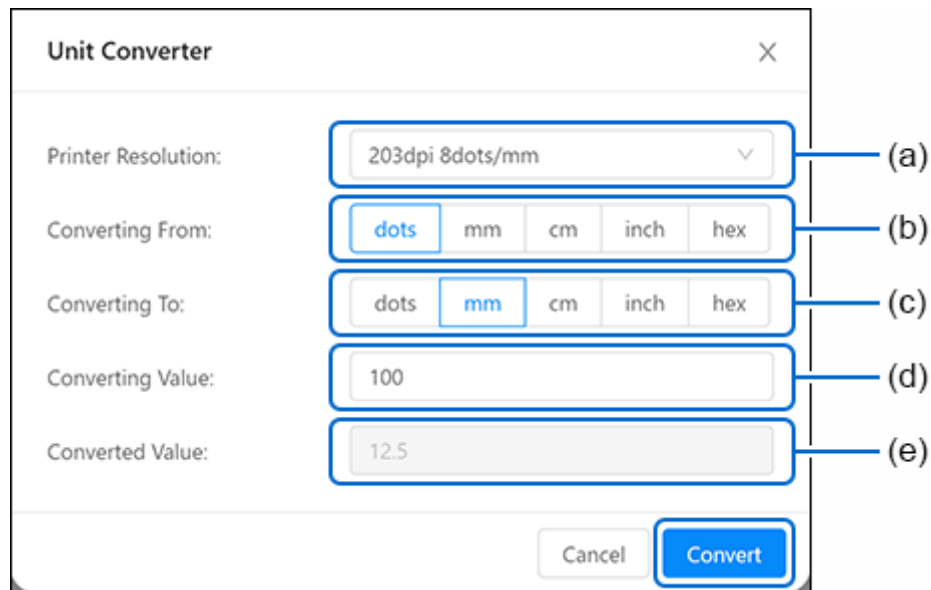
1. Click [More Apps].



2. Click [Unit Converter].



The [Unit Converter] dialog is shown.



3. Select the printer resolution from the [Printer Resolution] drop-down list (a).
4. Select the unit (b) that you want to convert from.
5. Select the unit (c) that you want to convert to.
6. Enter the converting value (d).
7. Click [Convert].

The new converted value (e) is shown.

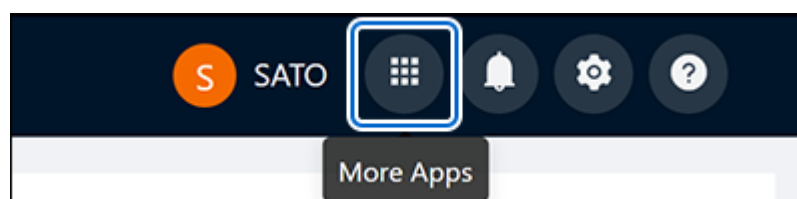
[Send SBPL to Printer Driver]

This function allows sending of SBPL print file to SATO printer driver. The print file will be sent to the printer via the interface defined in the driver properties->Port Setting.

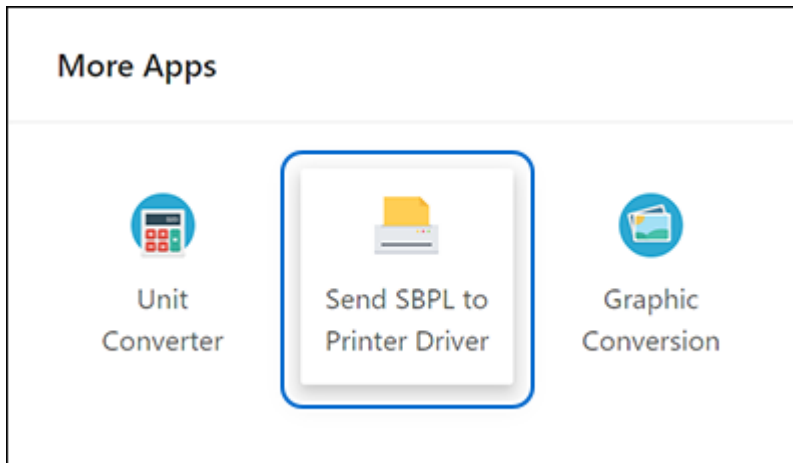


- The driver settings such as Print Speed or Print Darkness will not be applicable to the print file.

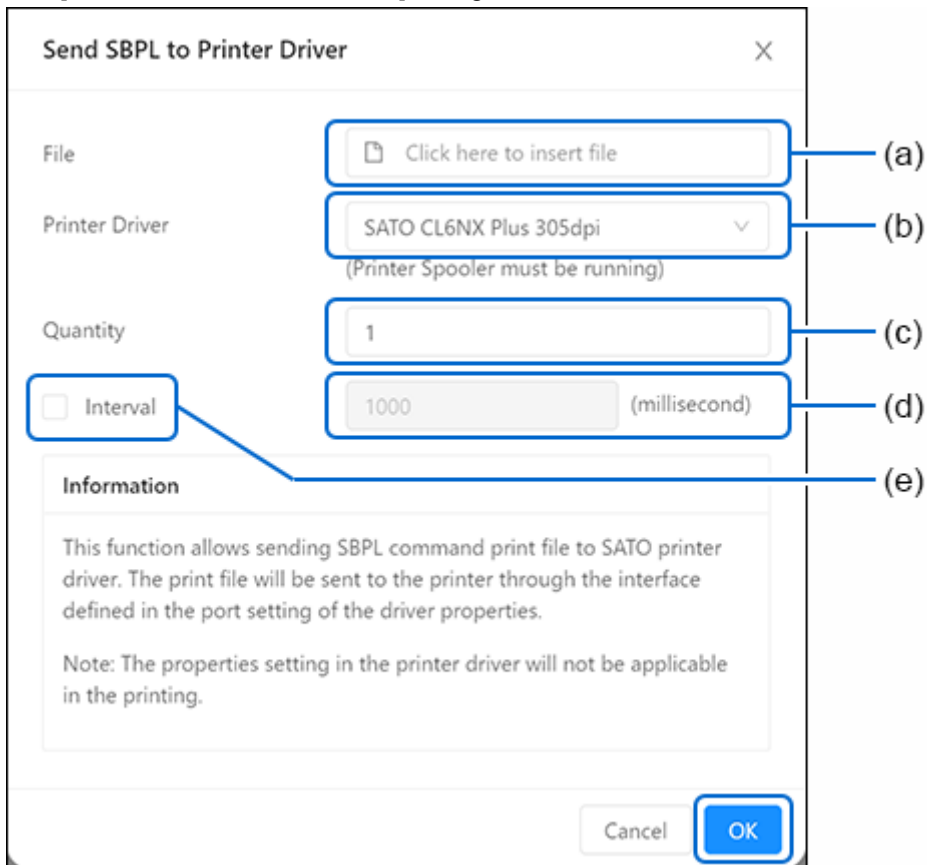
1. Click [More Apps].



2. Click [Send SBPL to Printer Driver].



The [Send SBPL to Printer Driver] dialog is shown.



3. Click the file insert box (a) and select an SBPL print file from the PC file system.

4. Select the printer driver from the drop-down list (b).

Only SATO printer drivers of the supported printers installed in the PC will be shown.

5. Enter the quantity to be printed in the text box (c).

6. Select the [Interval] check box (e) if you print the print file more than once, and a delay is needed in between the print files.

7. Then enter the delay time in millisecond (1 second = 1000 milliseconds) in the text box (d).
8. Click [OK].

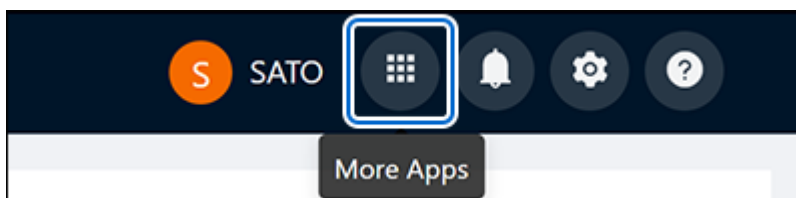
[Graphic Conversion]

This utility provides conversion functions from raster graphics files (*.BMP; *.GIF; *.JPG; *.PNG) into SBPL commands.

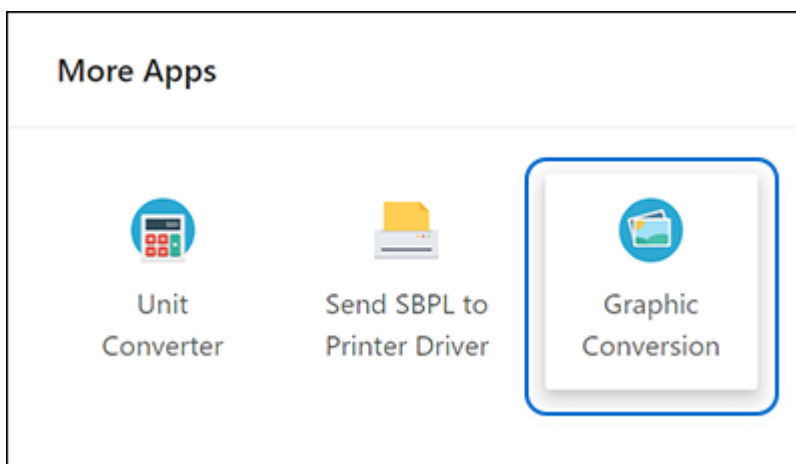


- The converted image will be a monochrome image regardless the original was a color image.
-

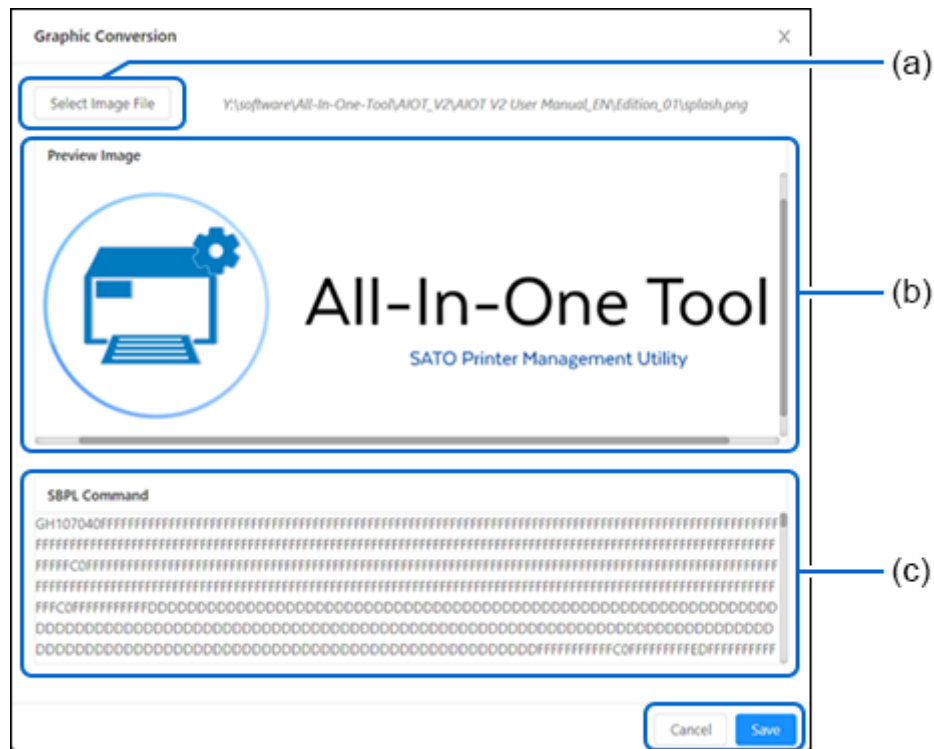
1. Click [More Apps].



2. Click [Graphic Conversion].



The [Graphic Conversion] dialog is shown.



3. Click [Select Image File] (a) to select the image file to be converted.

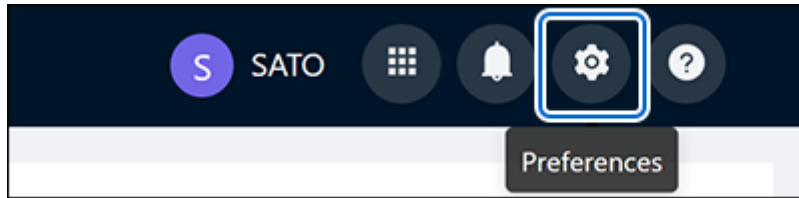
The selected image is shown in the [Preview Image] box (b).

The appropriate SBPL commands for printing the file will be shown in the [SBPL Command] text box (c).

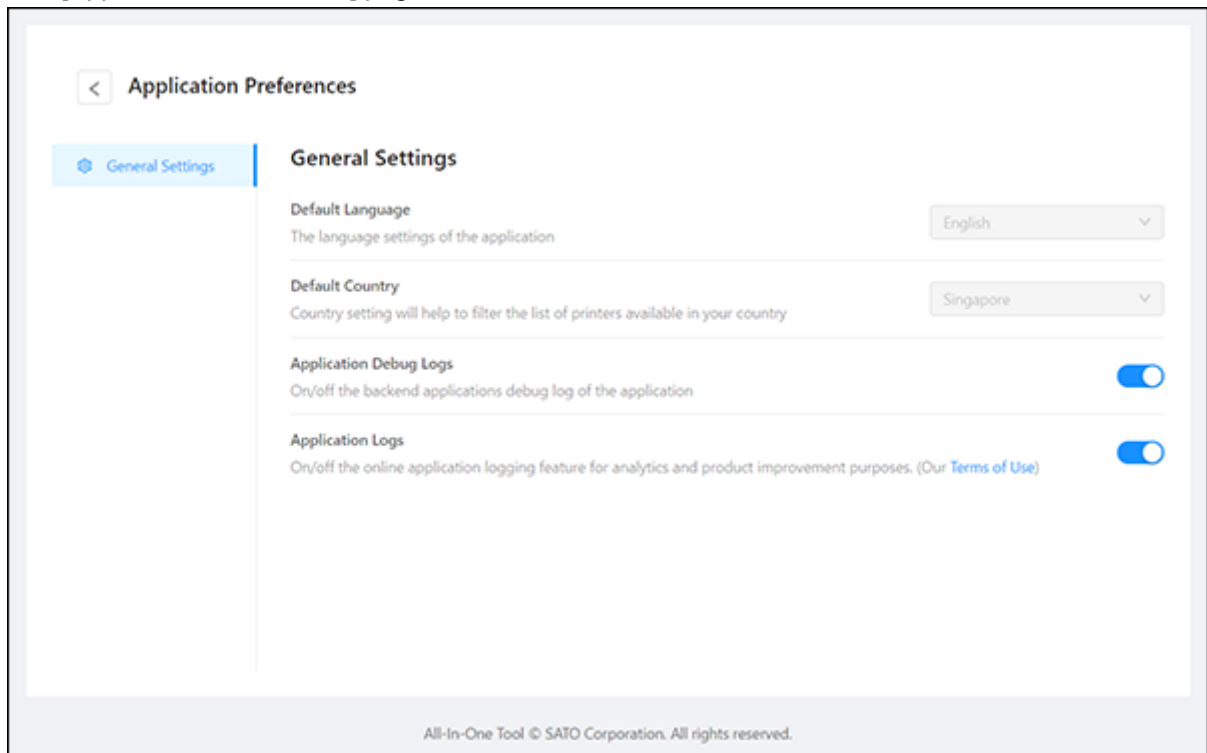
4. Click [Save] to save the commands into a file, or click [Cancel] to end the conversion.

Application Preferences

Click the [Preferences] icon on the top toolbar.



The [Application Preferences] page is shown.



- Click the  button on the top left of the [Application Preferences] page to return to the printer page.

In [General Settings], you can perform the following settings.

Setting the Default Language

The default language of the All-In-One Tool application is set as English. The supported languages for this application are English, Simplified Chinese and Japanese.

Click the [Default Language]* drop-down list and select your preferred language.

*This setting is not available at this moment until further notice.

Setting the Default Country

Setting the default country will help to filter the list of printers available in your country.

Click the [Default Country]* drop-down list and select your country or region.

*This setting is not available at this moment until further notice.

Enabling the Application Debug Logs

The back-end applications debug log of the All-In-One Tool application is useful for troubleshooting purposes. All-In-One Tool generates a log file to capture important debugging information such as error codes.

By default, the log file is created at the “AIOTv2Log” folder under users’ “Documents” folder, i.e. *UserPath\Documents\AIOTv2Files\AIOTv2Log*, where the UserPath is the path of the current PC user.

In case of reporting bugs or problems, users should enable [Application Debug Logs], run the application to recreate the issue and provide the log file to customer support for help.

The [Application Debug Logs] is default set to disable. Click the toggle switch to change the setting to enable.

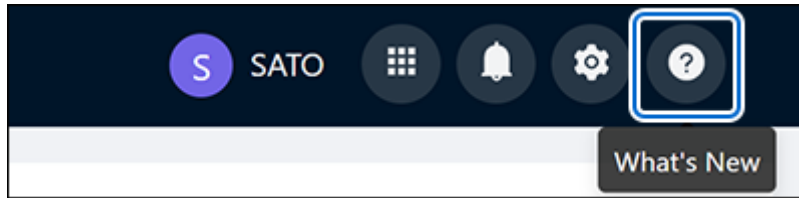
Enabling the Application Logs

With the [Application Logs] enabled, you have given the company your consent to use the access information it has collected for the maintenance of the All-In-One Tool and for statistical analysis of how the All-In-One Tool is used to provide better services.

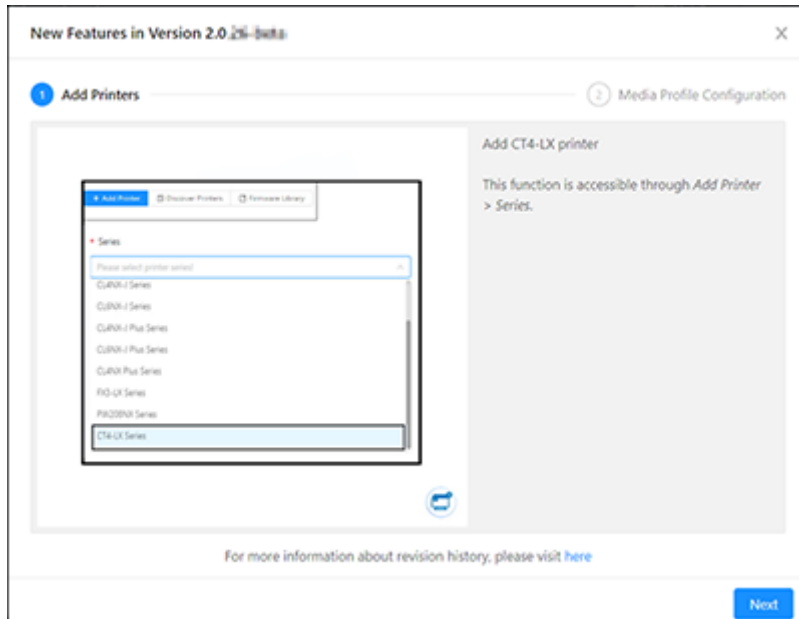
Click the toggle switch to enable or disable the [Application Logs].

What's New

Click the [What's New] icon on the upper right to show the information on current updates.



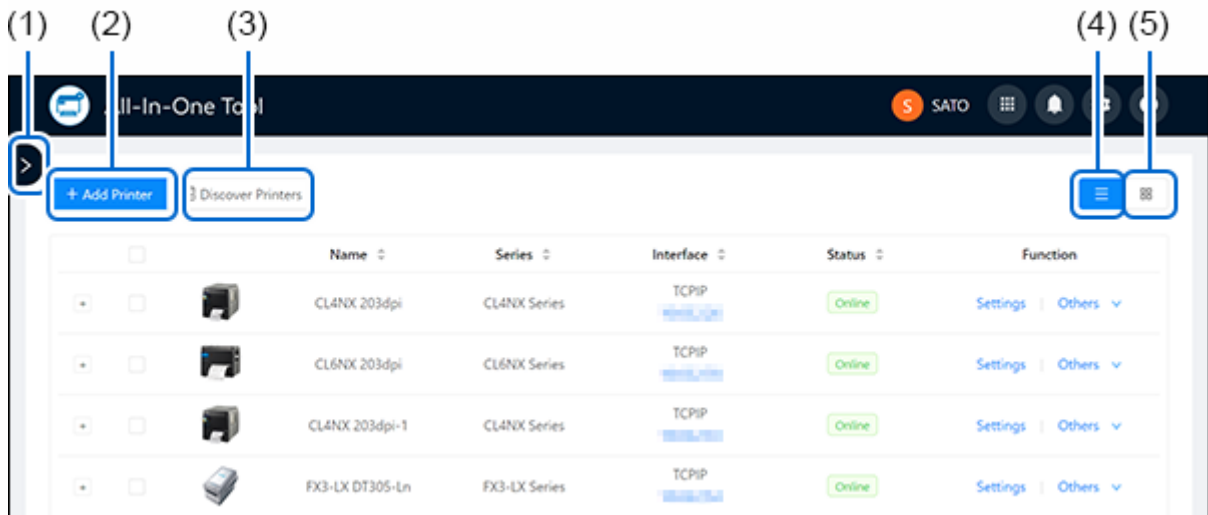
You can see the new features added to the current version of the application.



Printer Page

After all target SATO printers have been successfully detected or registered into the application, they will appear on the printer page.

You can view and manage all the registered printers remotely on this page. You can monitor the printer status, error condition, sorting the printers based on different category or apply search filter. You can also view each printer information and configure the printer settings.



The printer page can be shown by list view or grid view, and you can also find the printers using the search filter.

(1) [Search Filter] tab

You can filter the printer list by different criteria.

👉 Refer to [Search Filter](#) for more details on the operation.

(2) [Add Printer] button

You can manually add a printer to the list.

👉 Refer to [Adding a Printer Manually via Supported Interface Settings](#) for more details on the operation.

(3) [Discover Printers] button

You can add printers to the list via the Auto-Discovery function.

👉 Refer to [Adding a Printer via Auto-Discovery](#) for more details on the operation.

(4) [List view] button

You can view the registered printers in list view.

👉 Refer to [Printer Page in List View](#) for more functions available in the printer page and how to access other menus.

(5) **[Grid view] button**

You can view the registered printers in grid view.

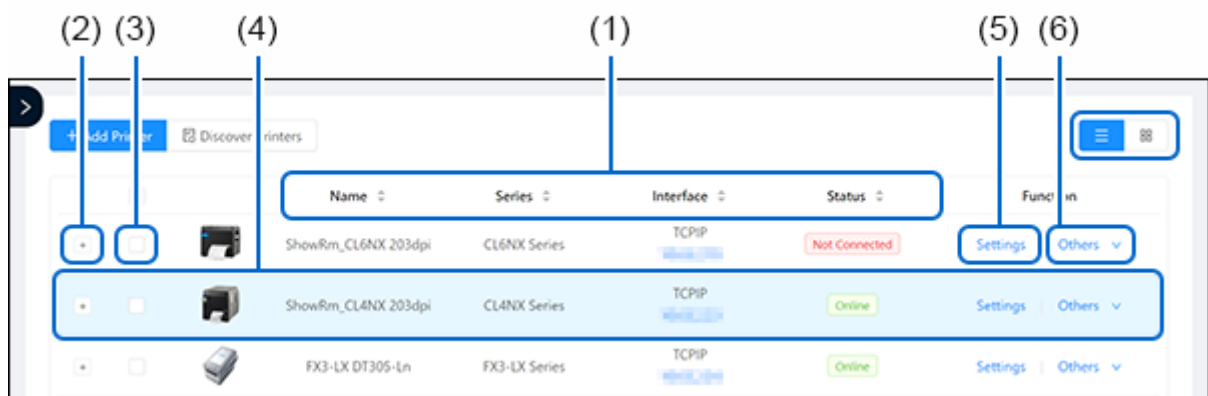


Refer to [Printer Page in Grid View](#) for more functions available in the printer page and how to access other menus.

Printer Page in List View

The default view of the printer page is list view. You can change it to grid view by clicking the grid view icon on the upper right.

In list view, the printers are shown row by row as list items.



You can perform the following operation on the printer page.

(1) Sorting the Printer List

Clicking the [Name], [Series], [Interface] or [Status] will sort the order of the printer list accordingly.

Name	Series	Interface	Status
------	--------	-----------	--------

When the blue arrow is pointing upward, the sort is in alphabetical ascending order.

When the blue arrow is pointing downward, the sort is in alphabetical descending order.

When the arrows are in grey, the sort function is turned off.

(2) Showing the Printer Status Details

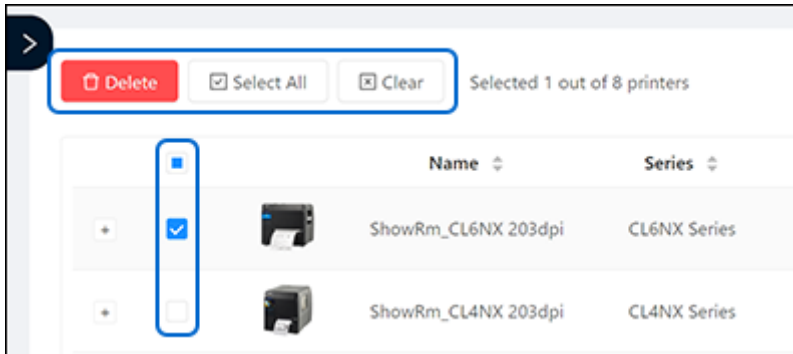
Click the  button on the left of the printer image to expand the row and show the Ribbon Status, Media Status and Error Code.

		ShowRm_CL4NX 203dpi	CL4NX Series
Ribbon Status : -			
Media Status : Paper Available			
Error Code : -			

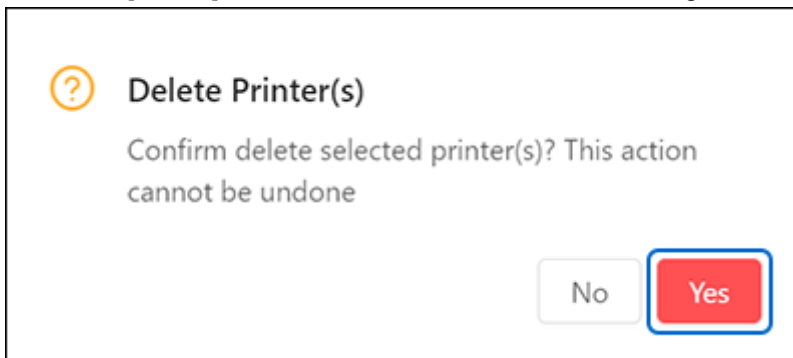
Click the  button to collapse this information.

(3) Deleting Printer from the List

1. Select the check box on the left of the printer that you want to delete from the printer page.
2. The [Delete] button, [Select All] button and [Clear] button are shown on top of the printer page.



- Click [Select All] to select all the printers on the printer page.
 - Click [Clear] to clear all the check boxes of the selected printers.
 - Click [Delete] to delete the selected printers from the printer page.
3. When the [Delete] button is clicked, the confirmation dialog is shown.

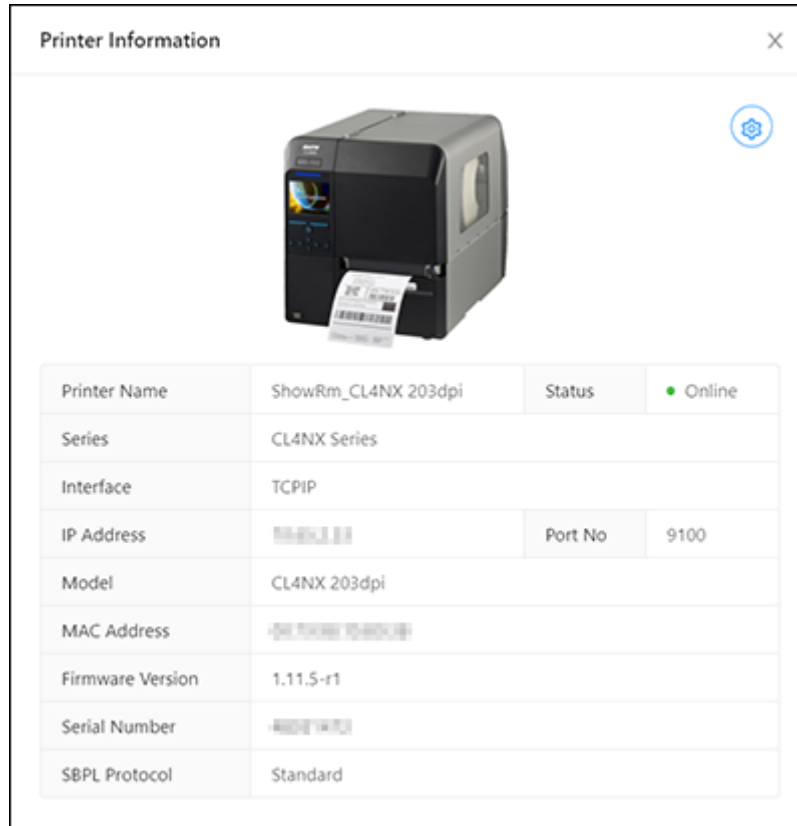


Click [Yes] to proceed.

(4) Showing the Printer Information

Move the cursor to highlight the row of the printer that you want to show the printer information. Then click the area other than the IP address of [Interface], [Settings] and [Others].

The [Printer Information] dialog is shown.



 Refer to [Showing and Editing Printer Information](#) for more details on editing the printer information.

(5) Showing the Settings Menu

Click [Settings] to show the [Settings] menu.

You can configure the printer settings remotely in this menu.

 Refer to [The Settings Menu](#) for more details on the operation.

(6) Showing the Others Menu

Move the cursor to [Others] to show the [Others] drop-down menu.

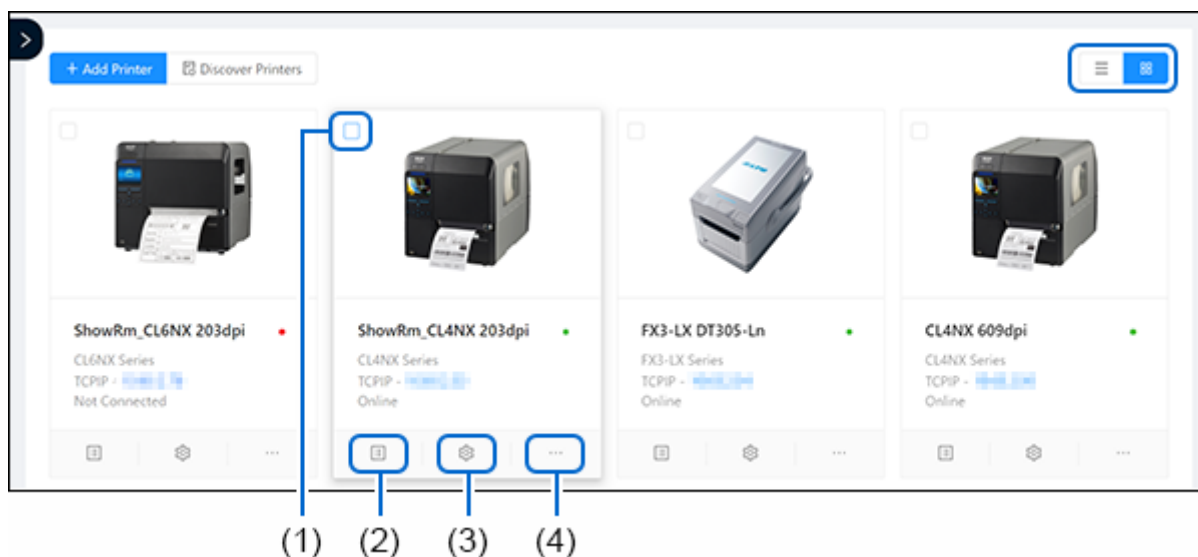
You can select to perform various functions in this menu.

 Refer to [The Others Menu](#) for more details on the functions.

Printer Page in Grid View

Click the grid view icon on the upper right to view the printer page in grid view. You can switch back to list view by clicking the list view icons.

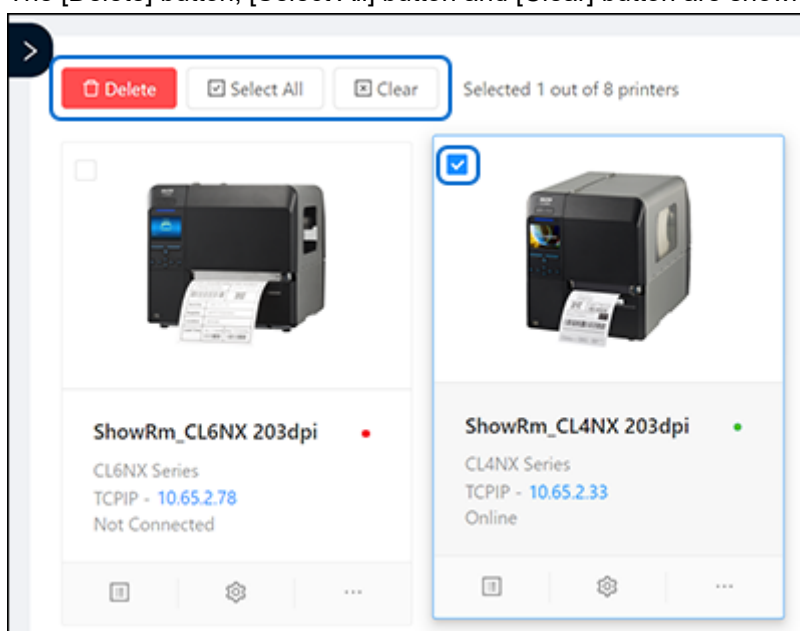
In grid view, each printer is shown in its own grid. The printer name, printer series, connecting interface and printer status are shown below the image of each printer. [Printer Information], [Settings] and [Others] options are indicated as icons in the grid.



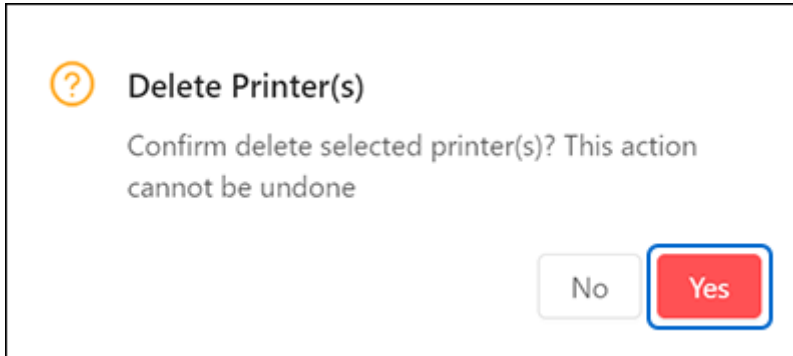
You can perform the following operation on the printer page.

(1) Deleting Printer from the List

1. Select the check box on the top left of the printer that you want to delete from the printer page.
2. The [Delete] button, [Select All] button and [Clear] button are shown on top of the printer page.



- Click [Select All] to select all the printers on the printer page.
 - Click [Clear] to clear all the check boxes of the selected printers.
 - Click [Delete] to delete the selected printers from the printer page.
3. When the [Delete] button is clicked, the confirmation dialog is shown.

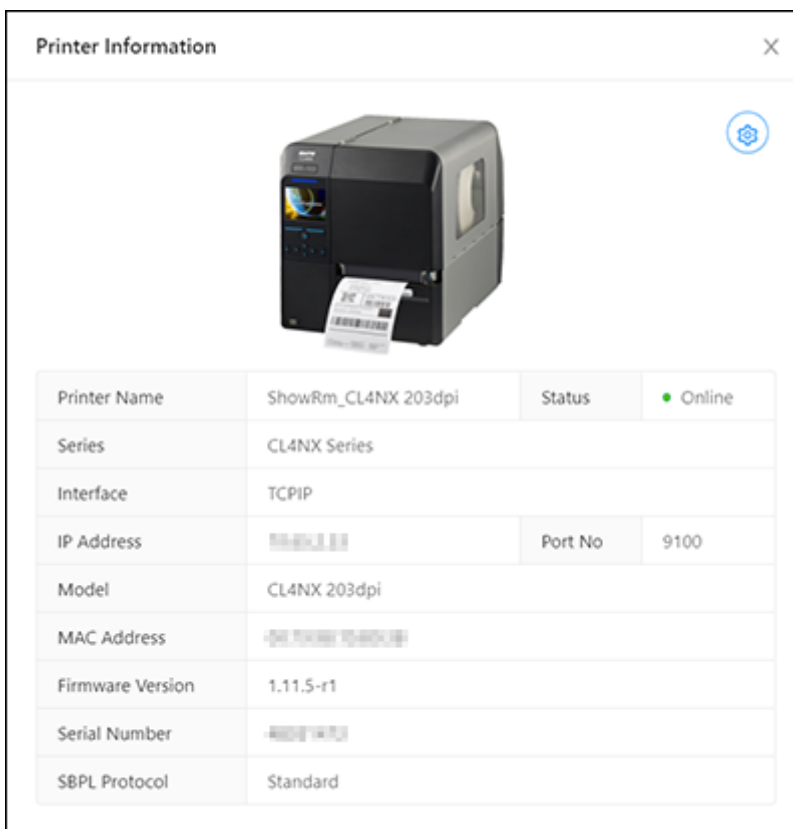


Click [Yes] to proceed.

(2) Showing the Printer Information

Click the [Printer Information] icon on the bottom left of the printer grid.

The [Printer Information] dialog is shown.



 Refer to [Showing and Editing Printer Information](#) for more details on editing the printer information.

(3) Showing the Settings Menu

Click the [Settings] icon on the bottom center of the printer grid.

The [Settings] menu page is shown.

You can configure the printer settings remotely in this menu.



Refer to [The Settings Menu](#) for more details on the operation.

(4) Showing the Others Menu

Click the [Others] icon on the bottom right of the printer grid to show the [Others] drop-down menu.

You can select to perform various functions in this menu.



Refer to [The Others Menu](#) for more details on the functions.

Showing and Editing Printer Information

Showing the Printer Information

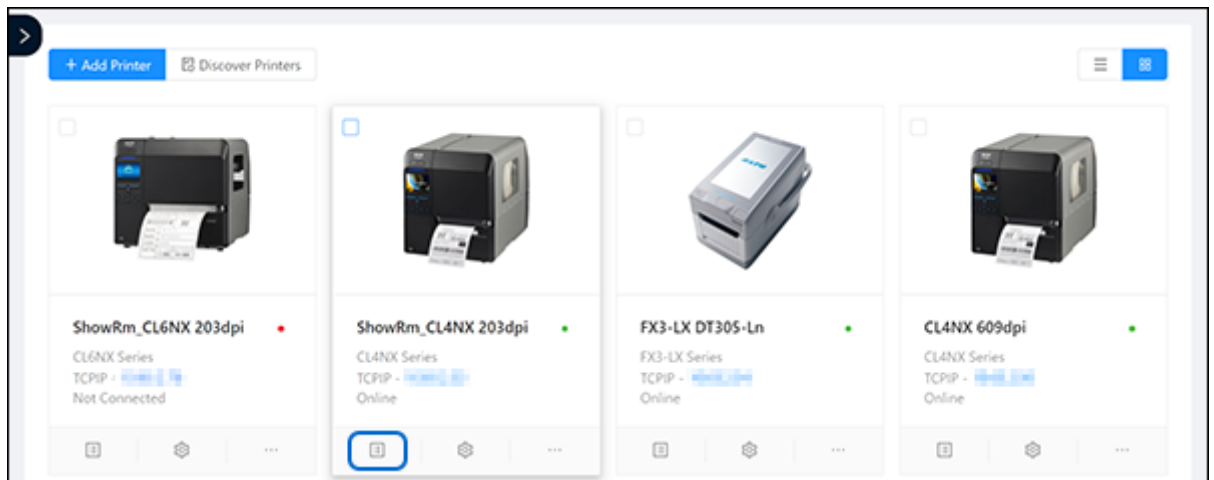
List View

Move the cursor to highlight the row of the printer that you want to show the printer information. Then click the area other than the IP address of [Interface], [Settings] and [Others].

	Name	Series	Interface	Status	Function
	ShowRm_CL6NX 203dpi	CL6NX Series	TCP/IP	Not Connected	Settings Others
	ShowRm_CL4NX 203dpi	CL4NX Series	TCP/IP	Online	Settings Others
	FX3-LX DT305-Ln	FX3-LX Series	TCP/IP	Online	Settings Others

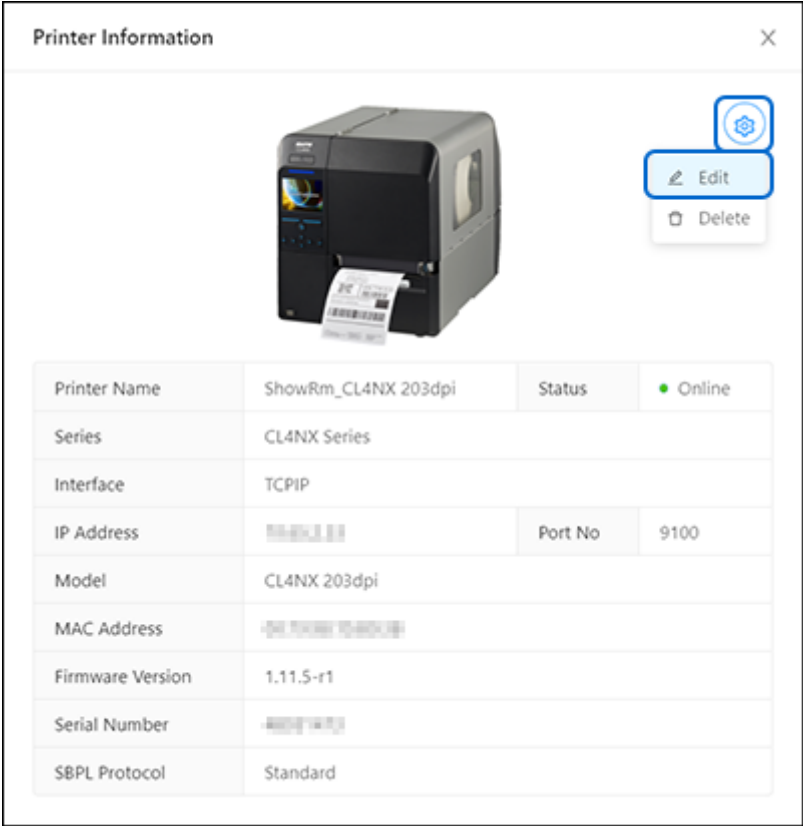
Grid View

Click the [Printer Information] icon on the bottom left of the printer grid.



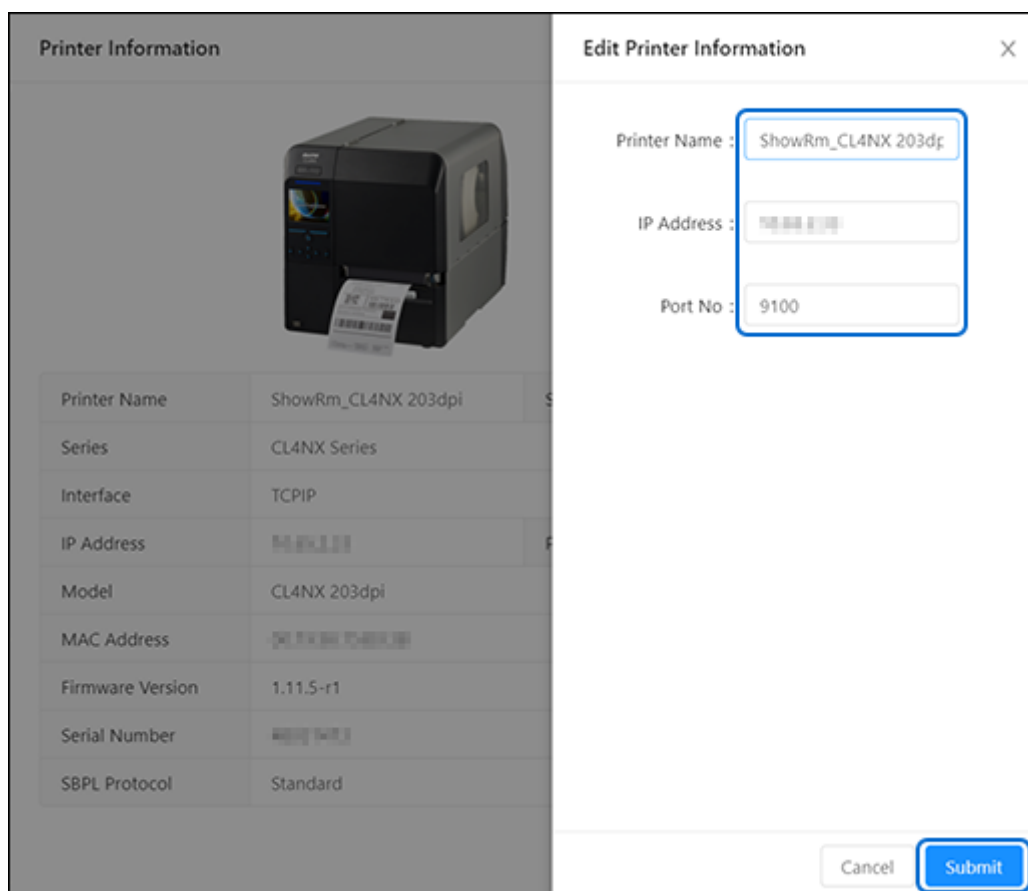
Editing the Printer Information

- 1. Move the cursor to the gear icon at the top right of the [Printer Information] dialog and select [Edit].



The [Edit Printer Information] dialog is shown.

2. Change the items listed in the dialog and click [Submit].



The screenshot shows a software interface for managing printers. On the left, a 'Printer Information' panel displays details for a 'ShowRm_CL4NX 203dpi' printer, including its series, interface (TCPIP), IP address, model, MAC address, firmware version, serial number, and SBPL protocol. On the right, an 'Edit Printer Information' dialog box is open, allowing users to modify these settings. The 'Printer Name' field is currently selected and highlighted with a blue border, showing the text 'ShowRm_CL4NX 203dpi'. The 'IP Address' field is empty, showing a placeholder '192.168.1.100'. The 'Port No.' field contains the value '9100'. At the bottom right of the dialog, there are 'Cancel' and 'Submit' buttons.

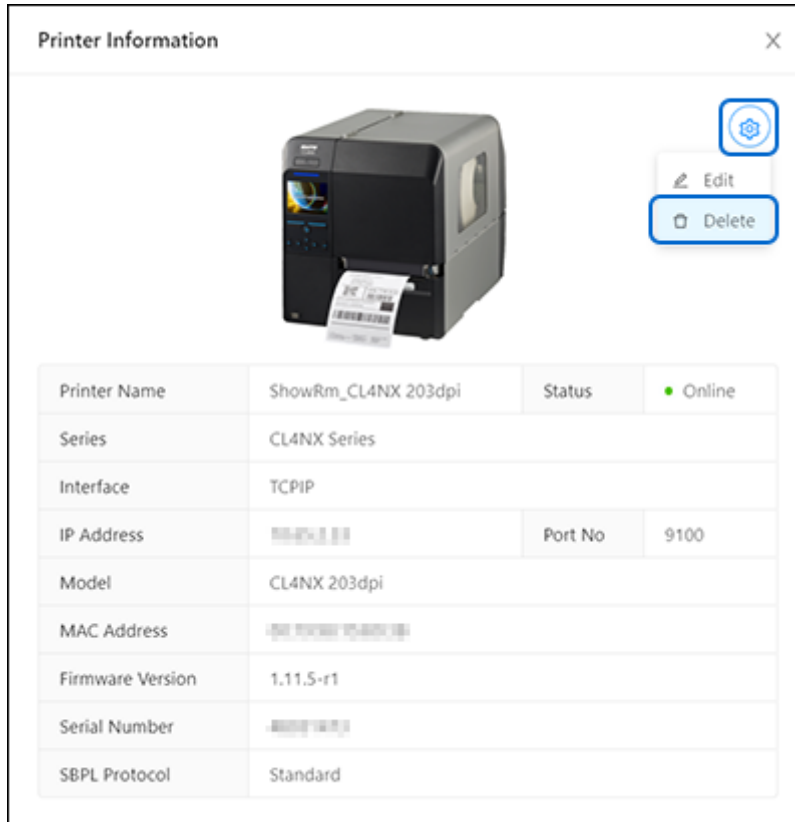


- Changing the [Printer Name] does not affect the printer. No command will actually be sent to the printer.
You can change the printer name according to the printer location, usage, etc. for better sorting or filtering on the printer page.
- You can only change the content of the interface, e.g. IP address, but not the type of interface. If you have changed the interface connection, e.g. LAN to USB, you need to remove the printer from the printer page and then add the printer with a new interface information.

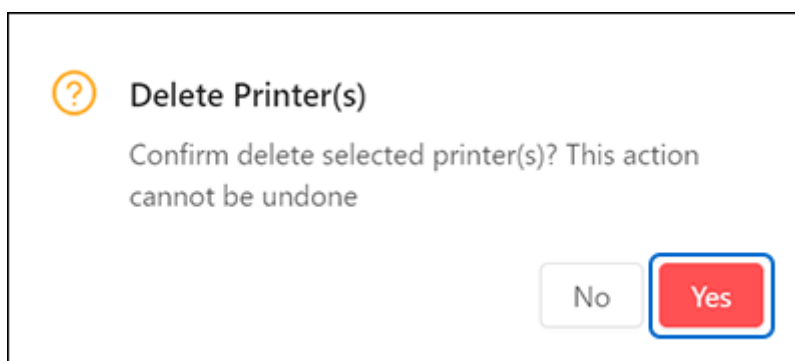
Deleting Printer from the Printer Information Dialog

You can also delete the printer in the [Printer Information] dialog.

1. Move the cursor to the gear icon at the top right of the [Printer Information] dialog and select [Delete].



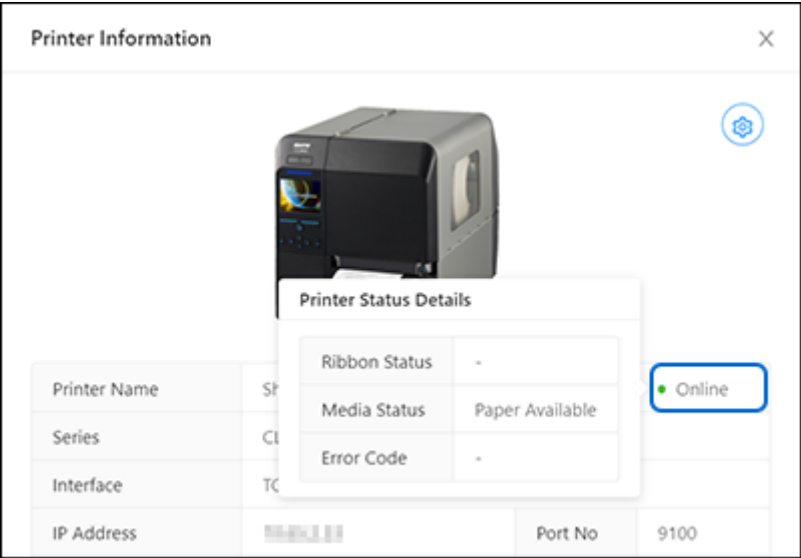
2. A confirmation dialog is shown.



Click [Yes] to proceed.

Showing the Printer Status Details

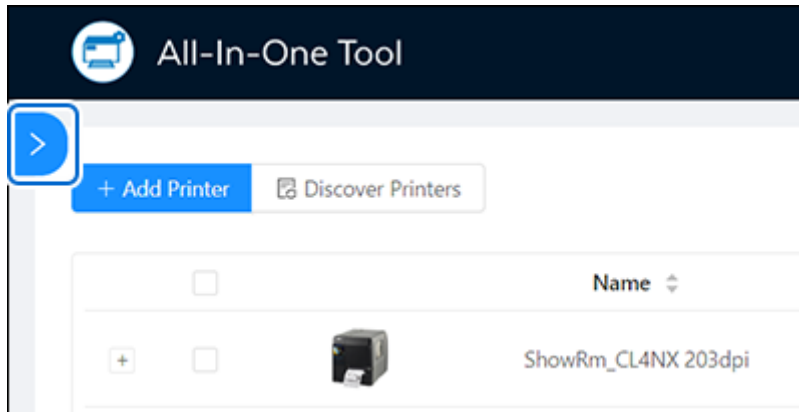
Move the cursor to the Status box to show more printer status.



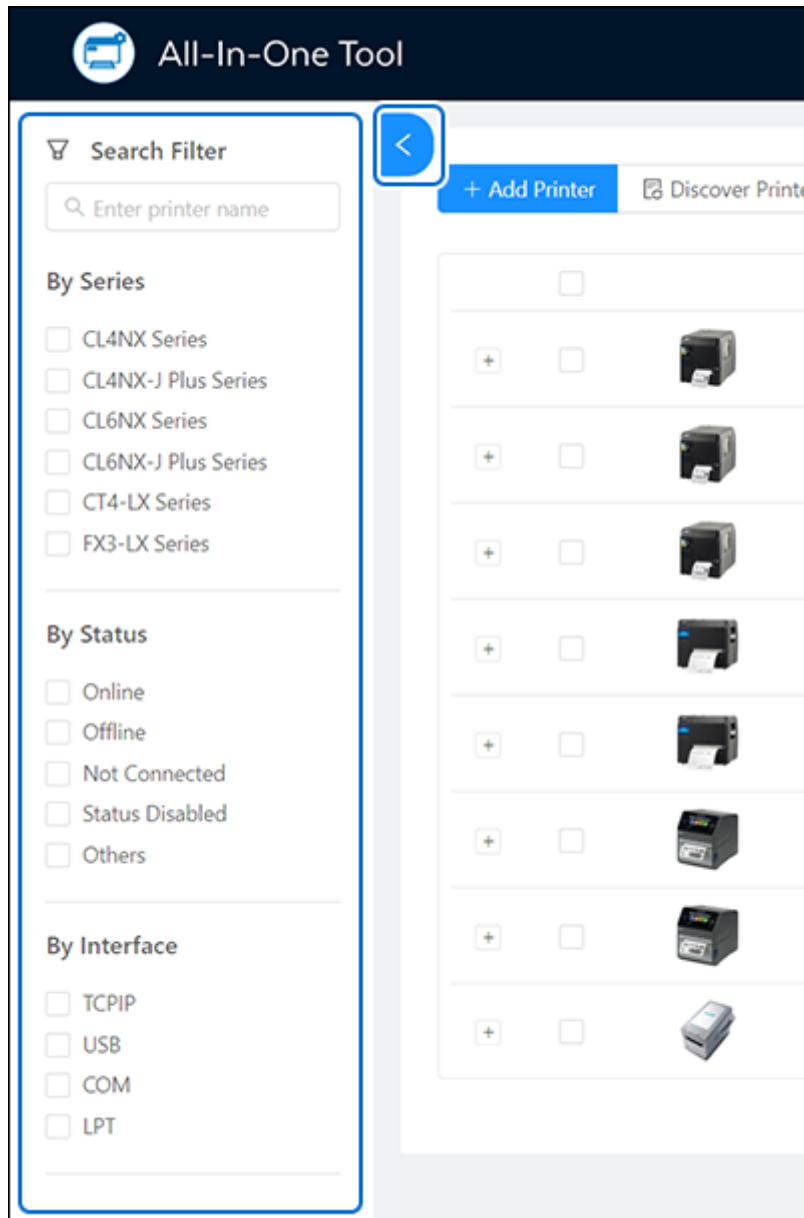
Search Filter

You can use the search filter to refine your search results of the printers showing on the printer page.

On the printer page, click the  tab on the upper left to expand and show the [Search Filter] dialog.



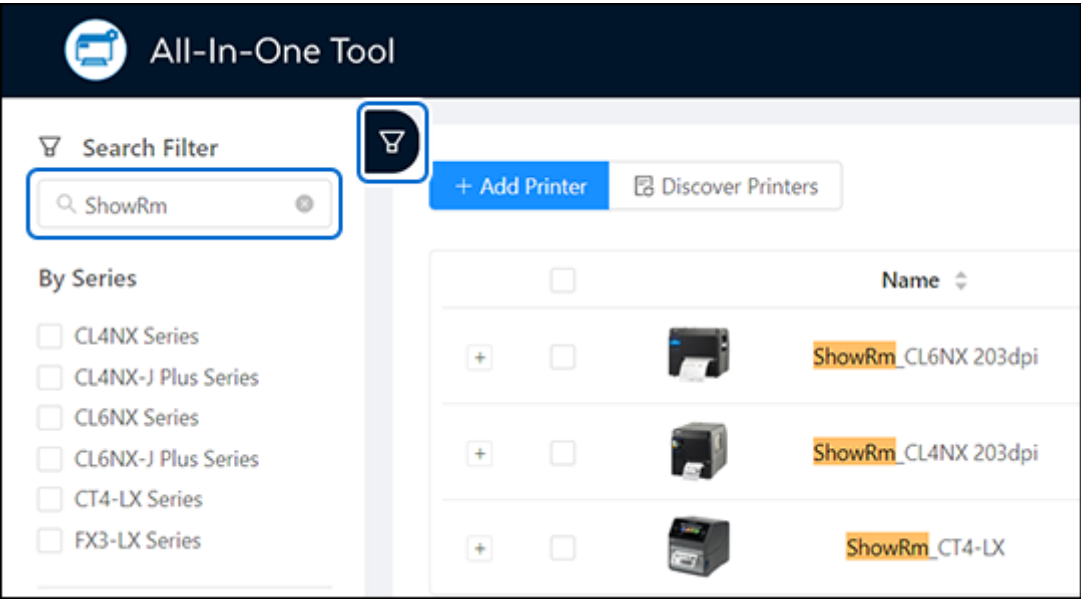
The [Search Filter] dialog is shown.



Multiple filters may be applied by selecting the criteria as listed.

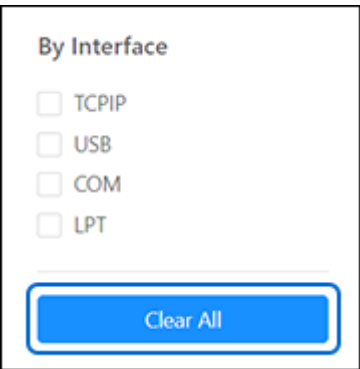
You can search the printer based on the [Series], [Status] and/or [Interface].

You can also directly enter the printer name to search for the printer.



When the search filter is applied, the symbol of the tab will change to a filter  symbol.

To clear the filter, click [Clear All] at the bottom of the [Search Filter] dialog.



Various Menus of the Application

The following list shows all the menus in the SATO All-In-One Tool application.

 [The Others Menu](#)

 [The Tools Menu](#)

 [The Settings Menu](#)

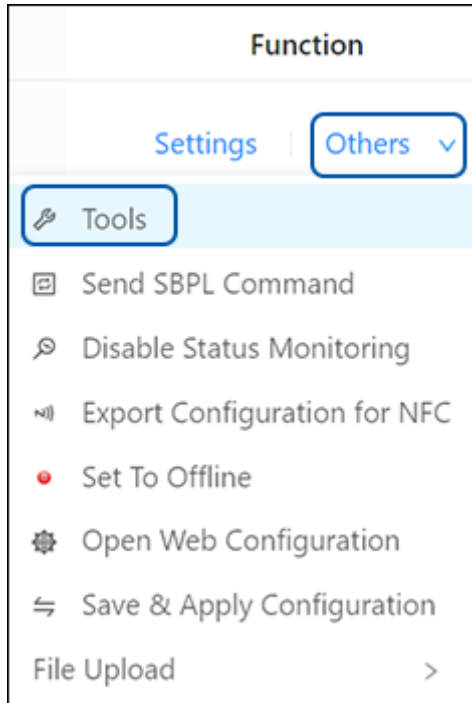
The [Others] Menu

The following functions are available in the [Others] menu.

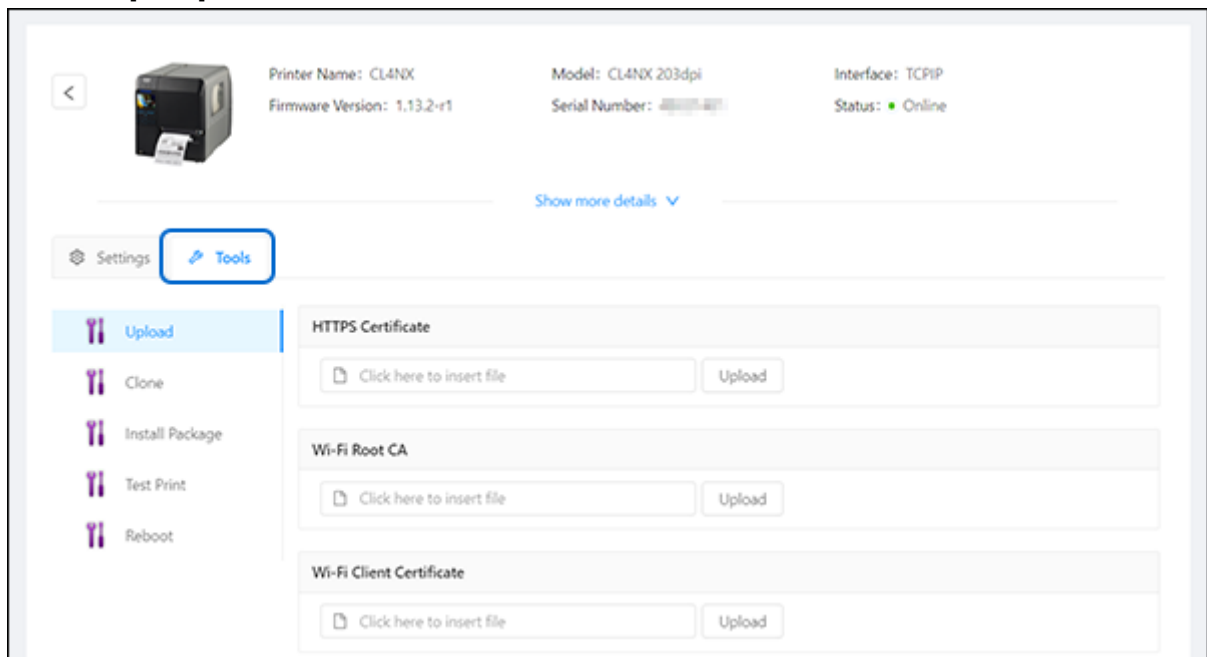
-  [Accessing the Tools Menu](#)
-  [Sending and Previewing SBPL Command](#)
-  [Disabling/Enabling the Status Monitoring](#)
-  [Exporting Configuration for NFC](#)
-  [Setting to Offline/Online](#)
-  [Opening Web Configuration](#)
-  [Printer Display Customization](#)
-  [Saving and Applying Configuration](#)
-  [Media Profiles Registration](#)
-  [Font Upload](#)
-  [Graphics Upload](#)
-  [Firmware Upload](#)

Accessing the [Tools] Menu

On the printer page, click [Others] > [Tools] of the selected printer to show the [Tools] menu.



The initial [Tools] menu is shown.

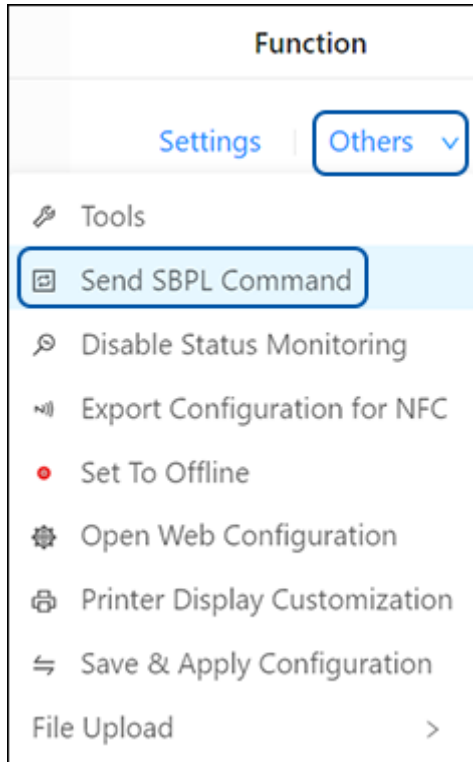


 Refer to [The Tools Menu](#) for more details.

Sending and Previewing SBPL Command

This function allows users to send SBPL commands to the selected printer or preview the SBPL command output from the printer.

On the printer page, click [Others] > [Send SBPL Command] of the selected printer.

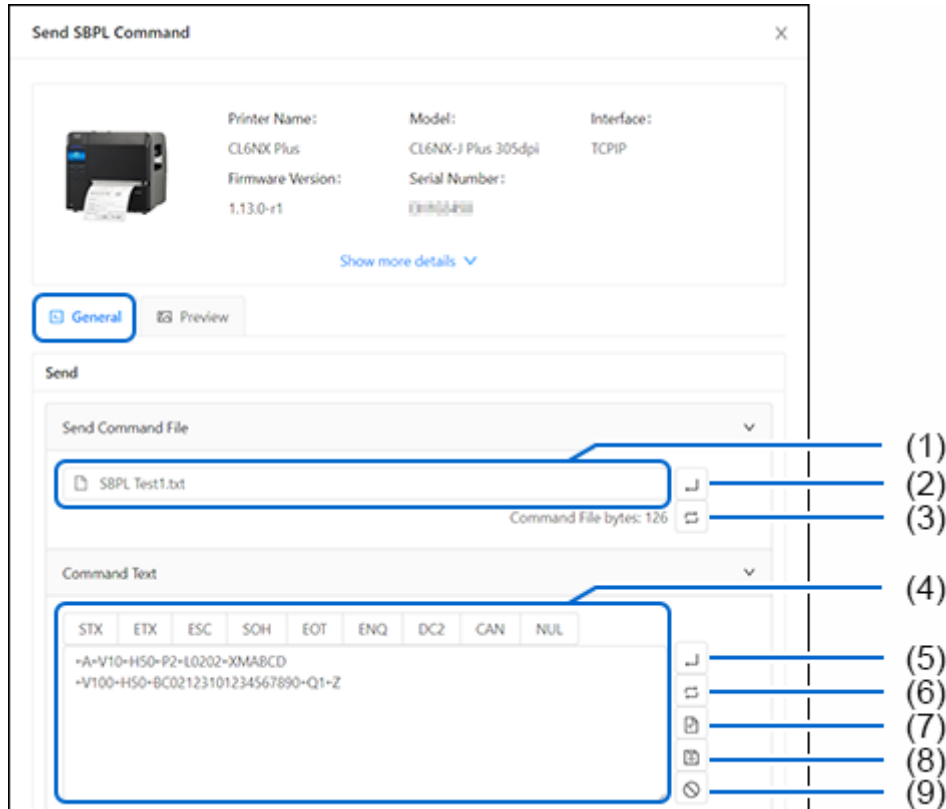


The [Send SBPL Command] dialog is shown.

Sending the SBPL Command

On the [General] tab, you can either send the SBPL command file or enter the command in the command text box and send it to the printer.

Users can also use it to retrieve printer response from the command. The response of the printer is shown in both HEX and ASCII formats.



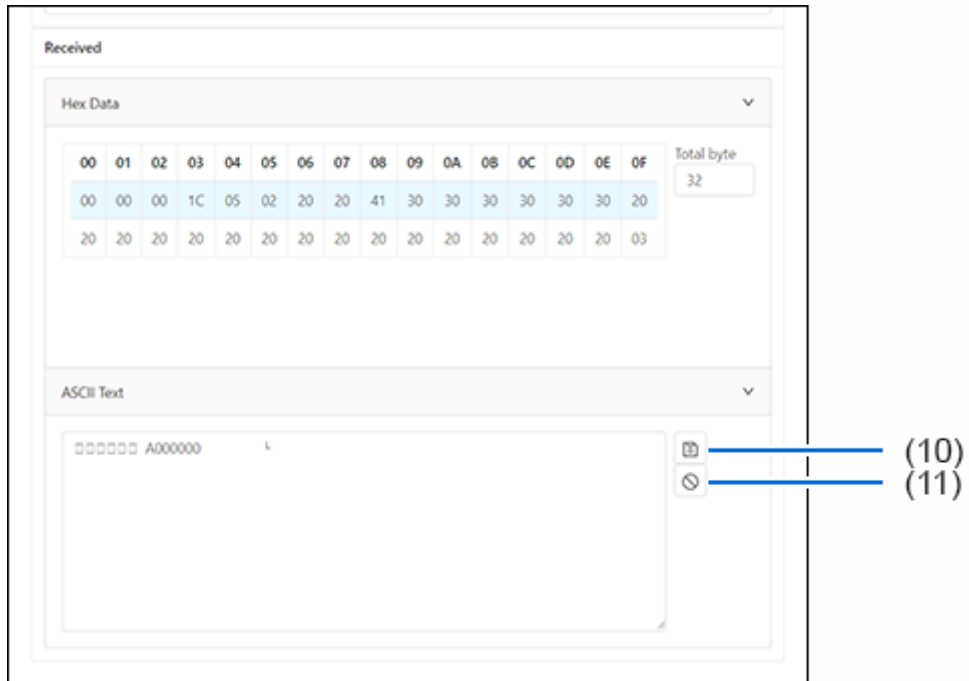
Sending the SBPL Command File to the Printer

- Click the file insert box (1) and select the command file from the PC file system.
- Click the [Send] button (2) to send the selected command file to the printer.
- Click the [Query] button (3) to send the selected command file to the printer and receive the response from the printer.

Entering and Sending the SBPL Command to the Printer

- Enter the command in the [Command Text] box (4).
- Click the [Send] button (5) to send the entered command to the printer.
- Click the [Query] button (6) to send the command to the printer and receive the response from the printer.
- Click the [Load from File] button (7) to show the command of the selected file in (1) on the [Command Text] box (4).
- Click the [Save] button (8) to save the entered command on the [Command Text] box.
- Click the [Clear] button (9) to clear the command in the [Command Text] box.

Receiving the Response from the Printer



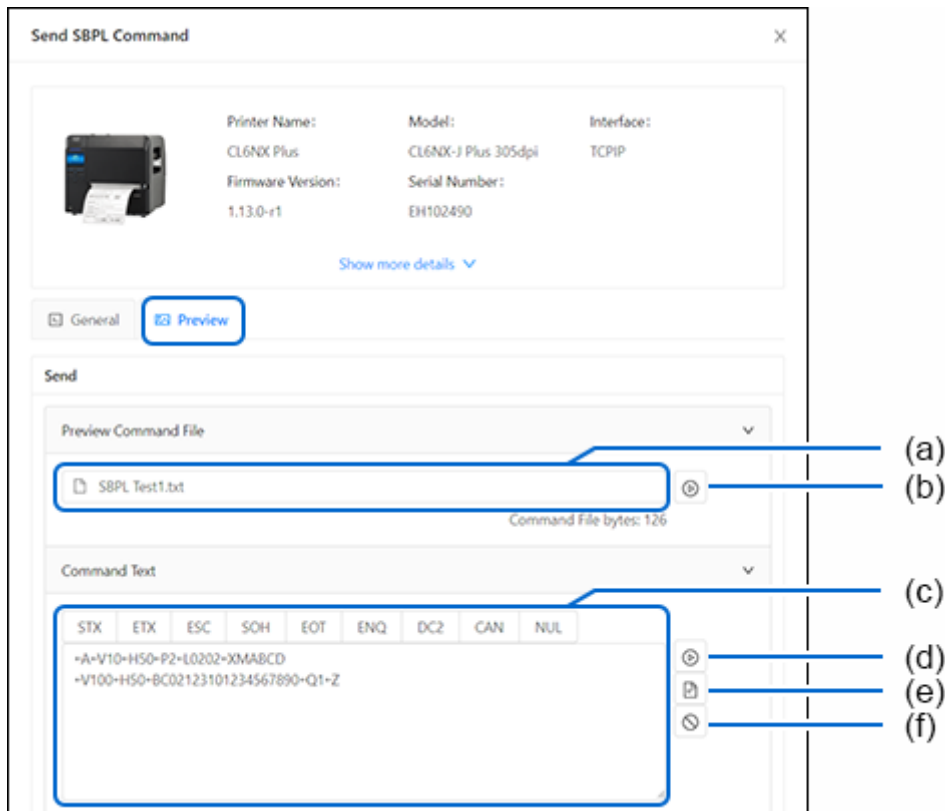
After the query command is sent to the printer, the printer will return the response in both HEX and ASCII formats.

- Click the [Save] button (10) to save the received data.
- Click the [Clear] button (11) to clear the received data.

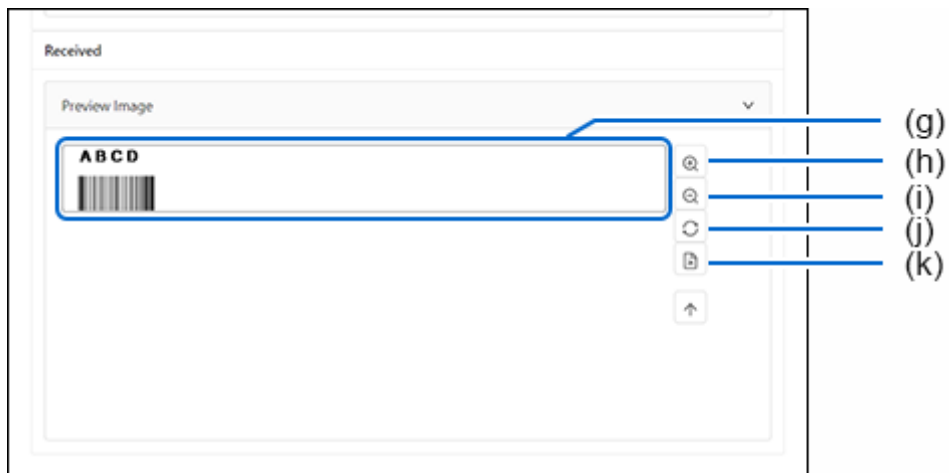
Previewing the SBPL Command

On the [Preview] tab, you can preview the output image of the SBPL command.

Users must be connected to the printer so the software can communicate with the device to acquire the data converted into a label on the screen. The file content containing the SBPL command can be previewed as well as loaded into the command box for checking/modifying. Users can preview the label in different sizes and scroll to see more details of the label.



- Click the file insert box (a) and select the command file from the PC file system.
- Click the [Preview] button (b) to show the output image of the selected command file.
- Enter or edit the command in the [Command Text] box (c).
- Click the [Preview] button (d) to show the output image of the command entered in the [Command Text] box (c).
- Click the [Load from File] button (e) to show the command of the selected file in (a) on the [Command Text] box (c).
- Click the [Clear] button (f) to clear the command in the [Command Text] box.



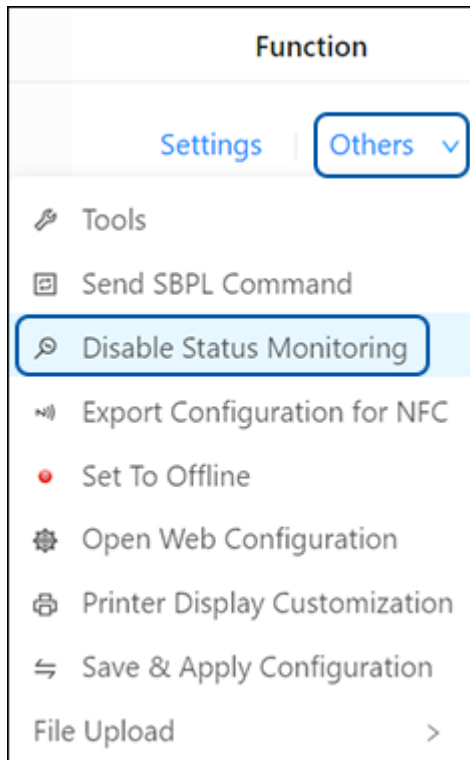
- The output image will be shown in the [Preview Image] box (g).
- Click the [Zoom In] button (h) to enlarge the image view size. You can move the image view by shifting the scroll bar on the sides.
- Click the [Zoom Out] button (i) to reduce the image view size.
- Click the [Reset] button (j) to return to the original view size.
- Click the [Save as Image] button (k) to save the preview image.

Disabling/Enabling the Status Monitoring

For printers connected by USB, LAN and WLAN, the SATO All-In-One Tool periodically sends a status-probing command and shows the printer status for monitoring purposes.

Disabling the Status Monitoring

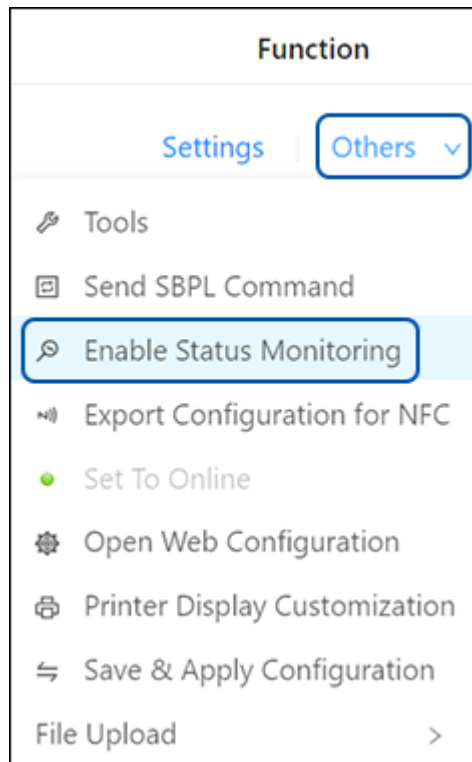
On the printer page, click [Others] > [Disable Status Monitoring] of the selected printer.



[Status Disabled] is shown as the printer status.

Enabling the Status Monitoring

On the printer page, click [Others] > [Enable Status Monitoring] of the selected printer.



The actual status of the printer is shown.

Exporting Configuration for NFC

NFC Tool is a part of the Mobile All-In-One Tool Android app.

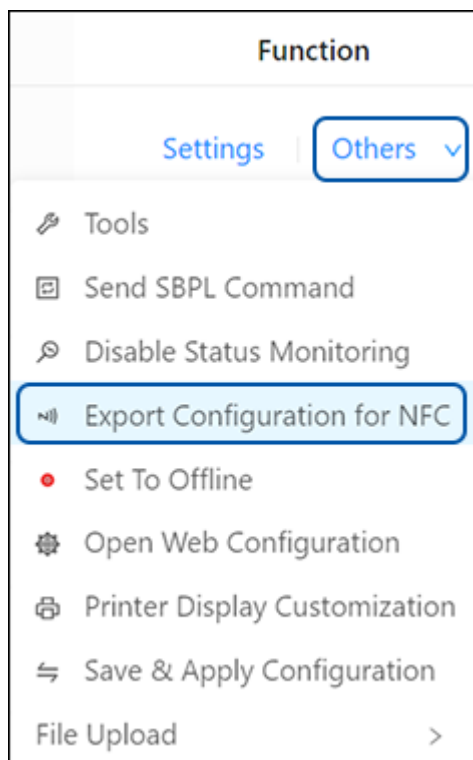
This function is available for CL4NX/CL6NX series (serial number 6B~ or newer), CL4NX-J/CL6NX-J/CL4NX Plus/CL6NX Plus/CL4NX-J Plus/CL6NX-J Plus series, FX3-LX, CT4-LX/CT4-LX-HC/HC4-LX series and PW208NX/PW208mNX series printer.

This feature exports printer configuration from the selected printer and saves the configuration as a file. The file extension is AIOTNFC that can be used with the Mobile All-In-One Tool for transferring the configuration to other printers of the same model without powered on.

Any supported printer with an NFC interface can receive data contains printer configuration via NFC interface while the printer is powered off. The received configuration will be applied when powering on the printer. By using this function, the productivity of the printer configuration process may be improved. Users can use this function to configure multiple printers without removing printers from the packaging box at the distribution center, warehouse or customer site.

You shall configure one printer using LCD, All-In-One Tool or web interface. So, this printer will be used for exporting configuration data.

1. On the printer page, click [Others] > [Export Configuration for NFC] of the selected printer.



The [Export Configuration for NFC] dialog is shown.

Export Configuration for NFC Info

Printer Name: CL4NX Plus 203dpi Model: CL4NX-J Plus 203dpi

Step 1 Interface Selection

Step 2 Applications Selection

Step 3 Additional Settings

Interface to include in Configuration File

Interface LAN IPv4

IP Address Settings Exclude

Next

2. Click the [Interface] drop-down list and select the interface to be included in the configuration file.

Interface

IP Address Settings

LAN IPv4

LAN IPv6

WiFi IPv4

WiFi IPv6

IEEE 1284

RS-232C

USB

Bluetooth



- You can include only 1 printer interface setting into the configuration file.

3. If you have selected IEEE 1284, RS-232C, USB or Bluetooth for the [Interface] setting, you can skip the following procedure and proceed to step 6.

4. If you have selected LAN or Wi-Fi for the [Interface] setting, you can exclude/include the static IP address by clicking the [Exclude]/[Include] toggle switch.

Export Configuration for NFC Info

Printer Name: CL4NX 203dpi Model: CL4NX 203dpi

1 Step 1 Interface Selection

2 Step 2 Applications Selection

3 Step 3 Additional Settings

Interface WiFi IPv4

IP Address Settings

Exclude

WEP Key 1

5, 10, 13 or 26 Alphanumeric Characters

WEP Key 2

5, 10, 13 or 26 Alphanumeric Characters

WEP Key 3

5, 10, 13 or 26 Alphanumeric Characters

WEP Key 4

Next

5. If you have selected Wi-Fi, you also need to provide [WEP Key] and/or [WPA PSK].
6. Click [Next].

7. Click the [Applications] drop-down list and select the printer language to be included in the configuration file.

Export Configuration for NFC Info

Printer Name: CL6NX-J 305dpi Model: CL6NX-J Plus 305dpi

Step 1 Interface Selection

Step 2 Applications Selection

Step 3 Additional Settings

Applications to include in Configuration File

Applications

SBPL

SBPL

SZPL

SIPL

SDPL

STCL

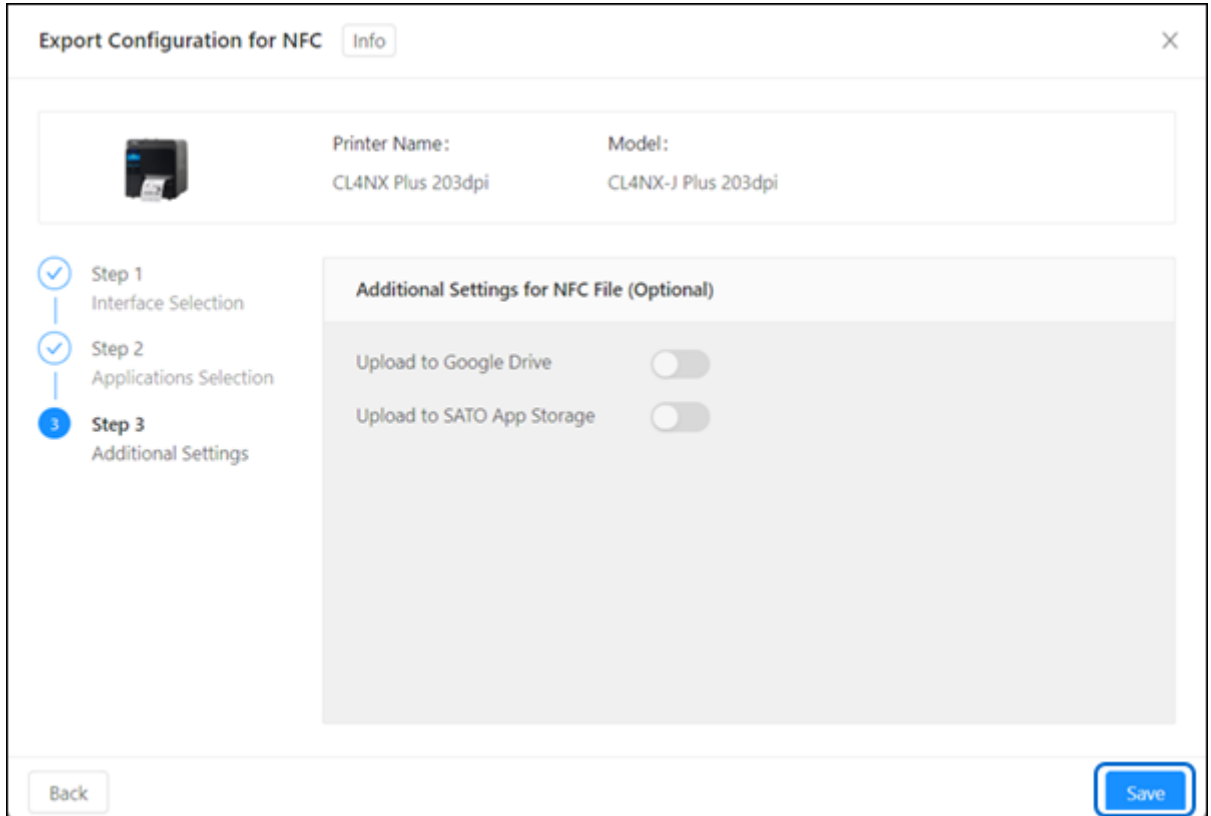
Back Next



- You can include only 1 application setting into the configuration file.

8. Click [Next].

9. Click [Save] to save the selected printer configuration.



Export Configuration for NFC Info

Printer Name: CL4NX Plus 203dpi Model: CL4NX-J Plus 203dpi

Step 1 Interface Selection

Step 2 Applications Selection

Step 3 Additional Settings

Additional Settings for NFC File (Optional)

Upload to Google Drive

Upload to SATO App Storage

Back Save

[Save As] dialog will be shown. Specify a file name and save the file. The file shall be transferred to an Android mobile device that you will be using Mobile All-In-One Tool for configuring printers.

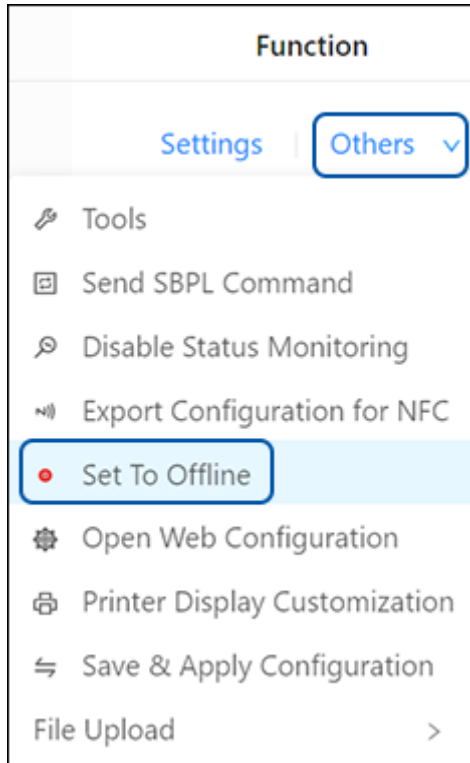


- The options for the [Upload to Google Drive] and [Upload to SATO App Storage] settings are not available at this moment until further notice.
- Not all printer settings will be included in the configuration file, as the size of the configuration file must fit the printer's NFC interface data capacity.

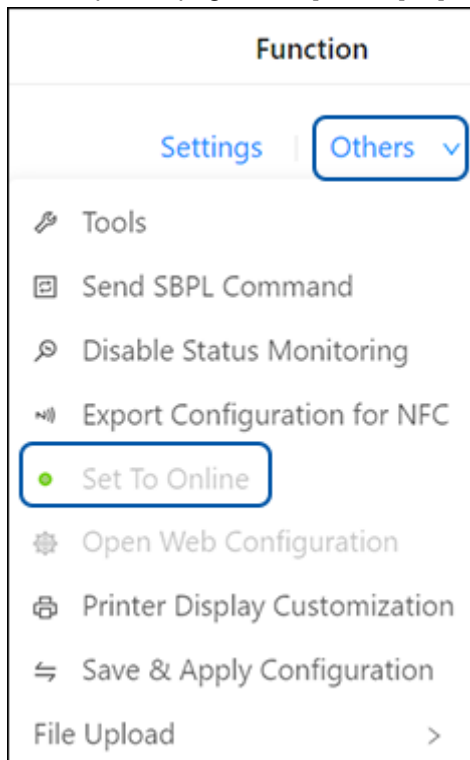
Setting to Offline/Online

You can set the printer to online or offline remotely using the All-In-One Tool.

On the printer page, click [Others] > [Set To Offline] to set the selected online printer to offline.



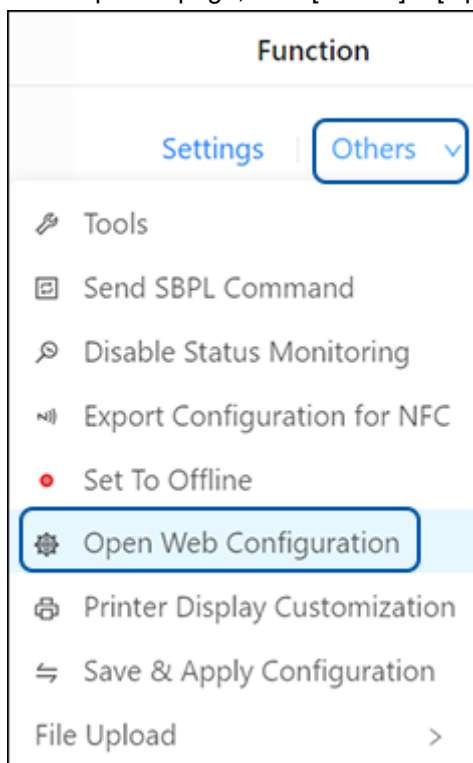
On the printer page, click [Others] > [Set To Online] to set the selected offline/error printer to online.



Opening Web Configuration

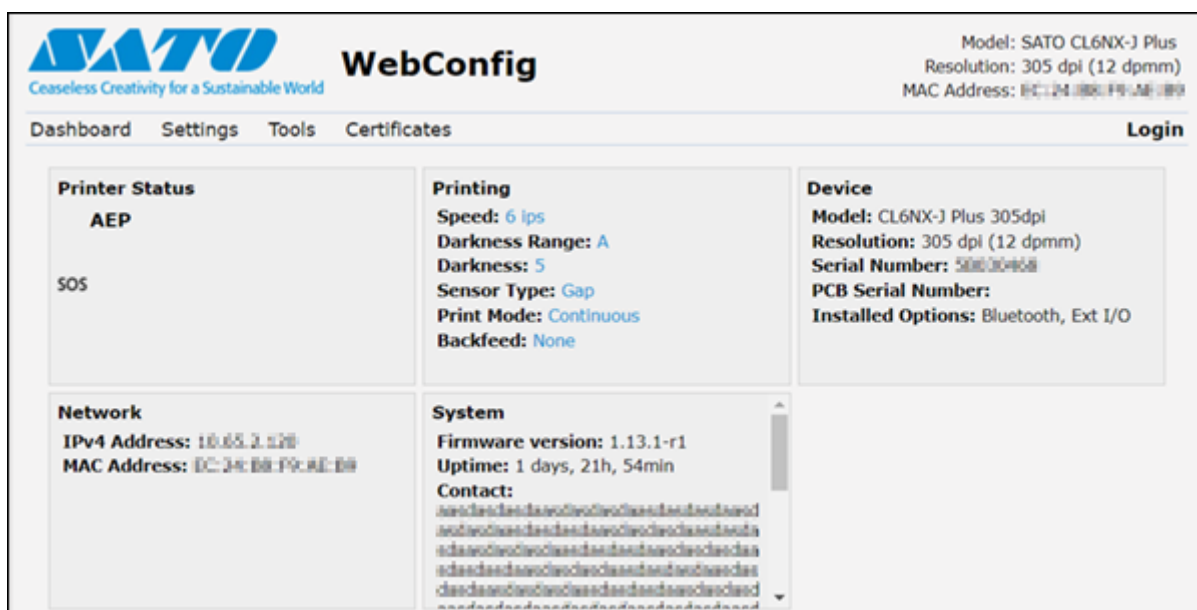
This functionality is available for the printer with LAN/WLAN connection only. It allows users easily access the printer's web configuration page via the default web browser without them entering the IP address manually.

On the printer page, click [Others] > [Open Web Configuration] of the selected printer.



The web configuration page is opened by your default web browser.

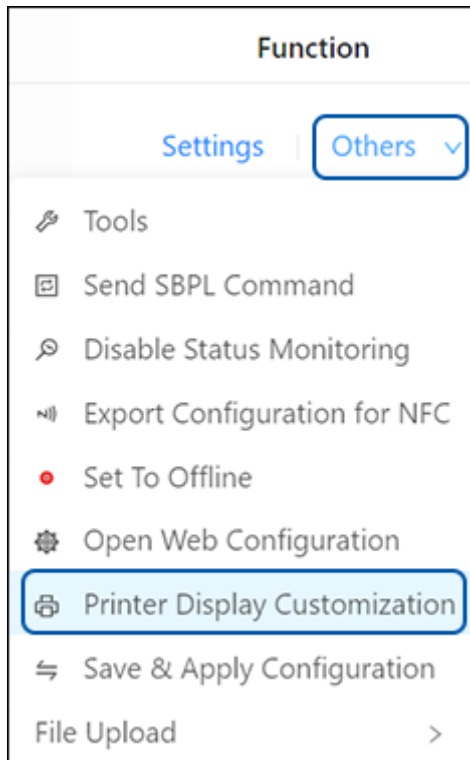
When a security certificate is prompted, you must acknowledge and click Continue.



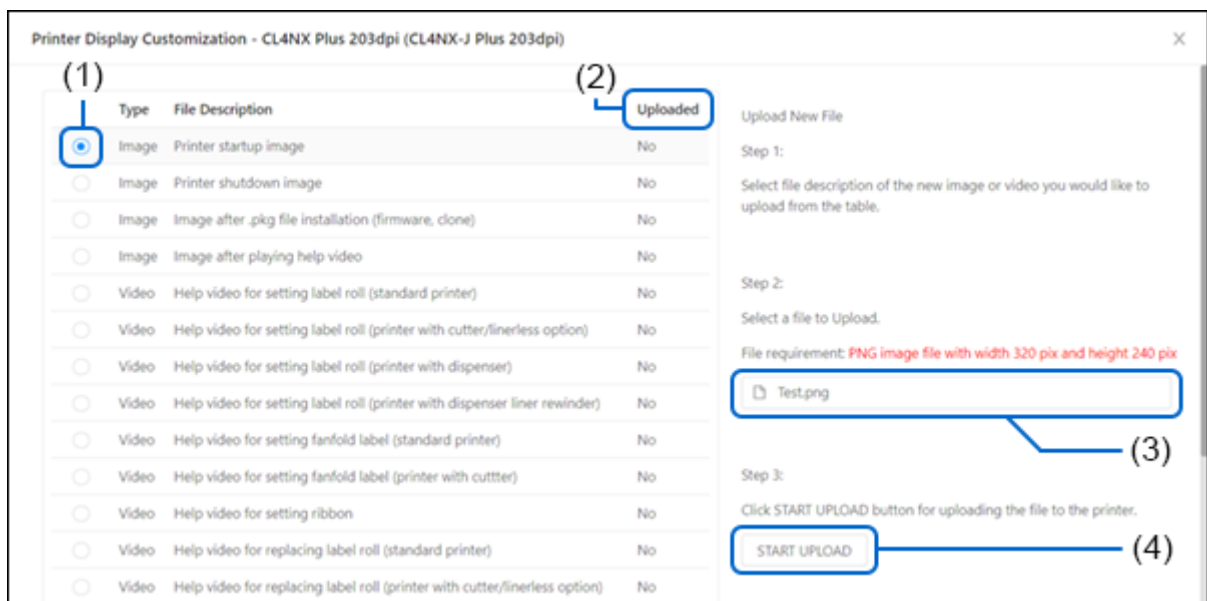
Printer Display Customization

This feature enables you to upload boot splash/screen images and help videos to be available on the [Information] > [Help] menu of the printer. This feature is available for CL4NX/CL6NX/CL4NX-J/CL6NX-J/CL4NX Plus/CL6NX Plus/CL4NX-J Plus/CL6NX-J Plus series (firmware version must be 1.4.1 or higher), FX3-LX and CT4-LX/CT4-LX-HC/HC4-LX series printers.

On the printer page, click [Others] > [Printer Display Customization] of the selected printer.



The [Printer Display Customization] dialog is shown.



☐	Video	Help video for replacing label roll (printer with dispenser)	No
☐	Video	Help video for replacing label roll (printer with dispenser liner rewinder)	No
☐	Video	Help video for replacing fanfold label (standard printer)	No
☐	Video	Help video for replacing fanfold label (printer with cutter)	No
☐	Video	Help video for replacing ribbon	No
☐	Video	Help video for replacing thermal head	No
☐	Video	Help video for replacing platen roller	No
☐	Video	Help Video for printer cleanup	No

Deleting Existing File

Step 1:
Select file description you would like to delete from the table.

Step 2:
Click DELETE button for deleting the existing file in the printer.

DELETE ALL

DELETE

(5)

DELETE ALL

(6)

The [Printer Display Customization] function records a new image/video file or overrides the old one if the file already exists in the printer. On the list, the [Uploaded] column (2) shows [Yes] if the particular image/video file exists. Or it shows [No] if there is no uploaded file.

Uploading an Image/Video

1. Select the file description of the image/video on the list that you wanted to upload. The option button (1) on the left shows the selection.
2. Click the file insert box (3) and select the particular file from the PC file system.
You need to follow the file requirement as stated.
3. Click [START UPLOAD] (4).

Deleting the Selected Image/Video

1. Select the uploaded image/video that you wanted to delete. The option button (1) on the left shows the selection.
2. Click [DELETE] (5).

Deleting All the Image/Video

Click [DELETE ALL] (6).

Deleting of images will stop showing them by the printer but deleting the videos will restore original help movies already included by default.



- **File Requirement for Uploading Image**

CT4-LX, CT4-LX-HC, HC4-LX: .png extension, 480 x 272 pixels size
Other printers: .png extension, 320 x 240 pixels size

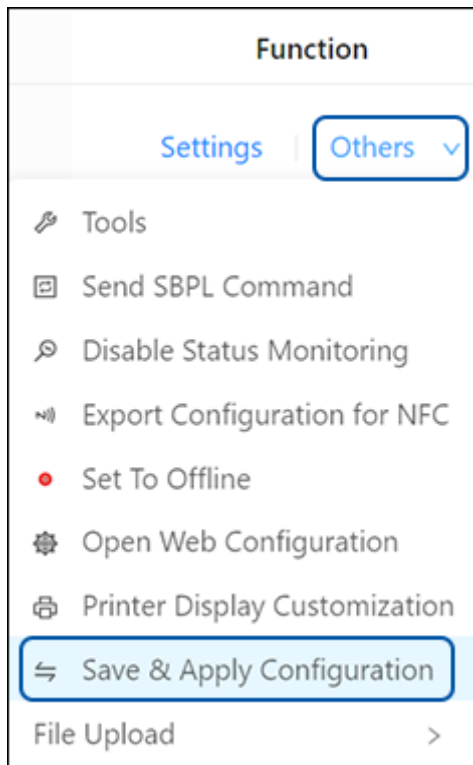
- **File Requirement for Uploading Video**

CT4-LX, CT4-LX-HC, HC4-LX: .webm extension, 480 x 272 pixels size, file size less than 15 MB
Other printers: .webm extension, 320 x 240 pixels size, file size less than 15 MB

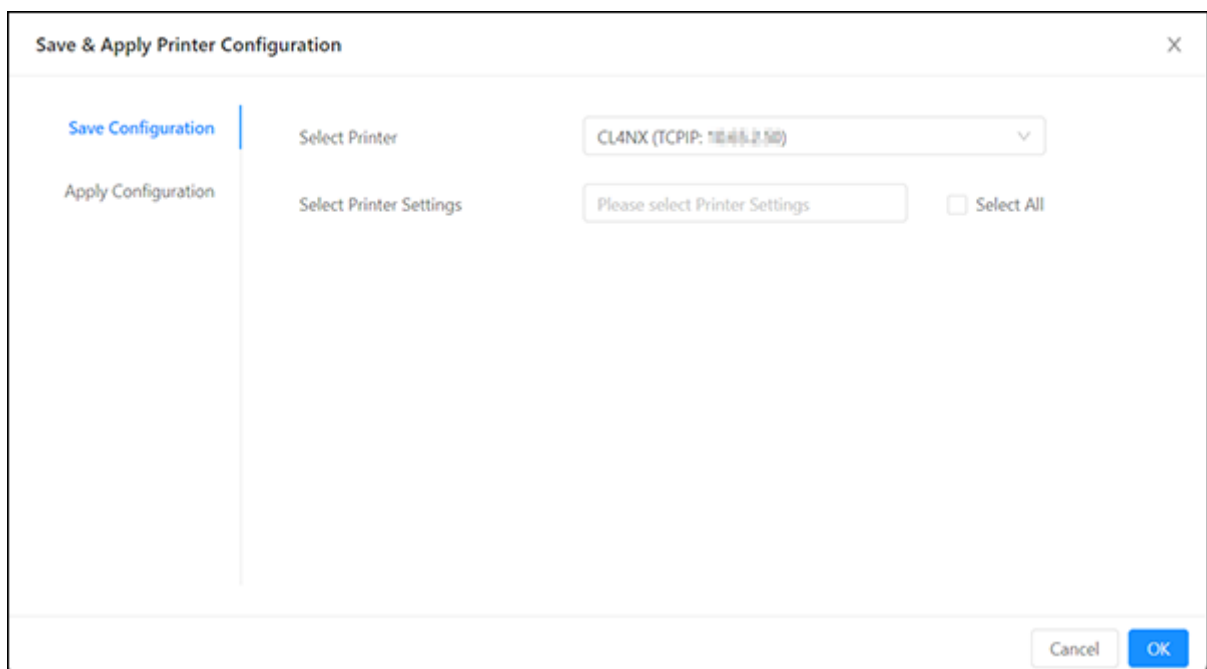
Saving and Applying Configuration

This feature is necessary for users who need to apply a set of printer settings to a single printer or multiple printers at once.

On the printer page, click [Others] > [Save & Apply Configuration] of the selected printer.

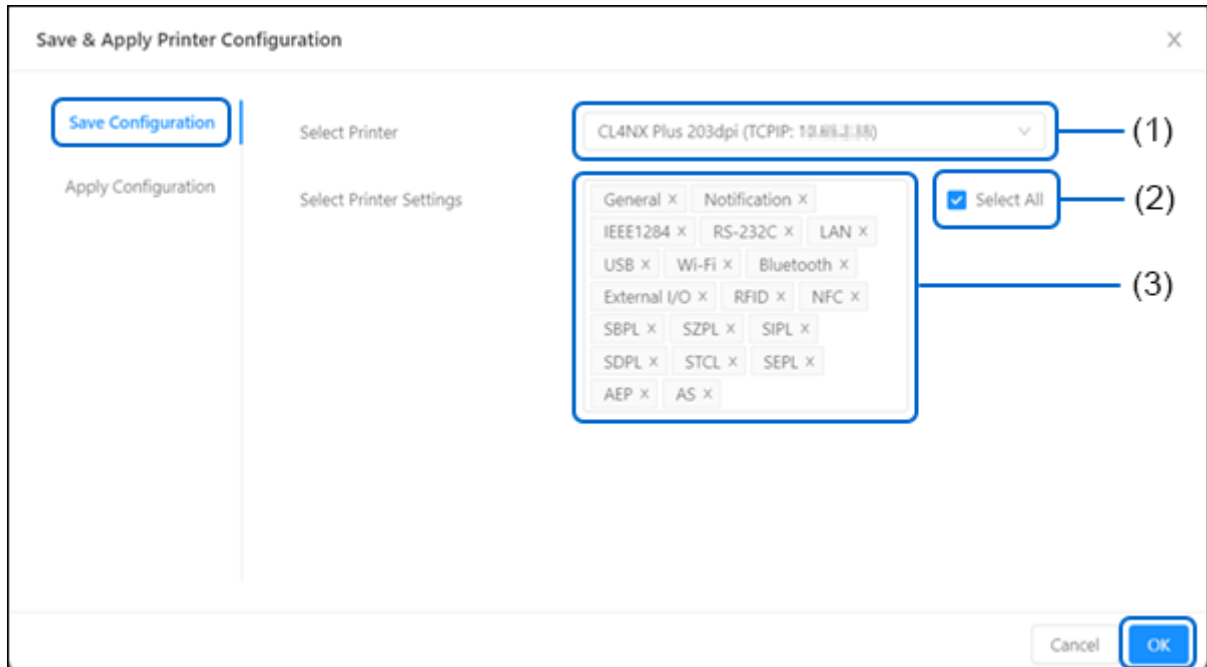


The [Save & Apply Configuration] dialog is shown.



Saving the Configuration File

An SBPL command will be executed to retrieve the printer configuration of the selected printer.



1. On the [Save Configuration] tab menu, select the source printer (1) and the printer settings (3) to be saved.

Click the drop-down list and select the options. You can have multiple selections of the printer settings or select the [Select All] check box (2) to select all the printer settings on the list.

2. Click [OK].

The information is then saved into an XML file specified by the user.

Applying the Saved Configuration File to the Printer

For applying printer configuration, the command will be executed after reading the XML file that is specified by users.

There are 2 methods to apply the printer configuration:

- **Single Apply**

This feature is to apply the printer configuration to another printer at a time.



[Single Apply the Saved Configuration File to the Designated Printer](#)

- **Mass Apply**

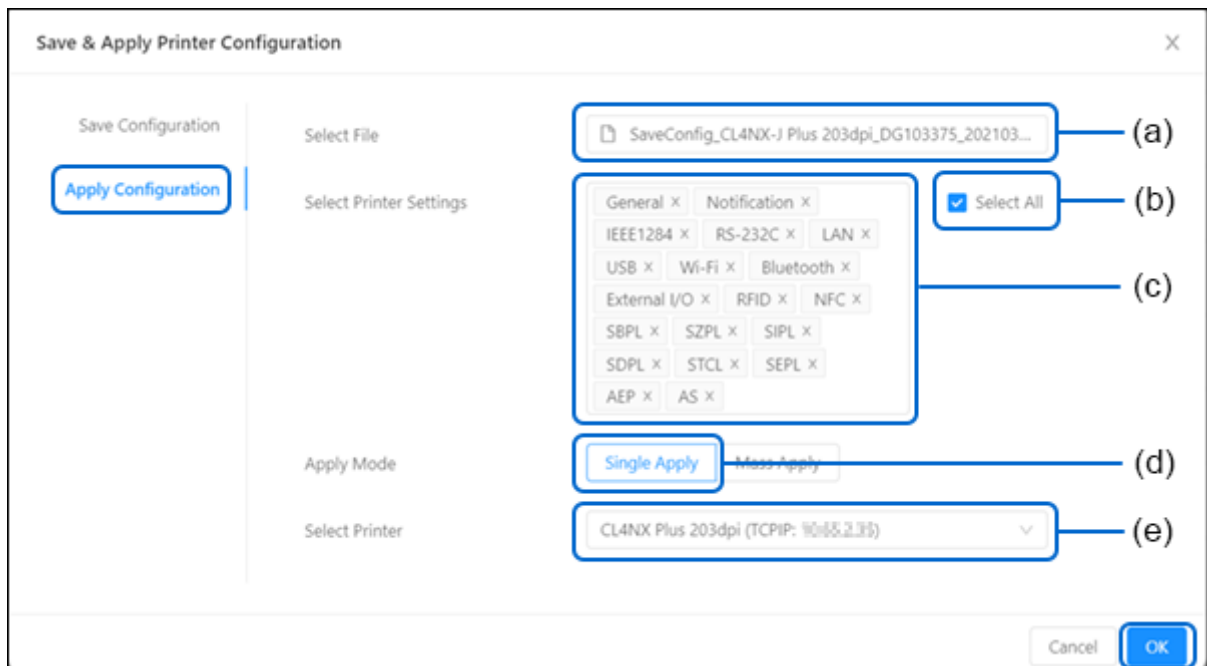
This feature is to apply the printer configuration to more than one printer (within the same model series) concurrently.



[Mass Apply the Configuration File to Multiple Printers](#)

Single Apply the Saved Configuration File to the Designated Printer

This feature is to apply the printer configuration to another printer at a time.



1. On the [Apply Configuration] tab menu, click the file insert box (a) and select the XML file previously saved.
2. Click the [Select Printer Settings] drop-down list (c) and select the available printer settings.

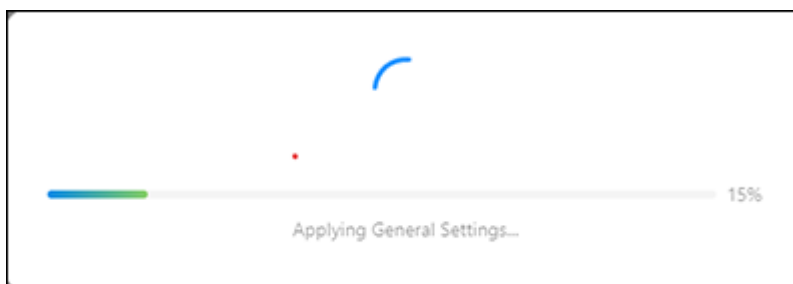
You can have multiple selections of the printer settings or select the [Select All] check box (b) to select all the printer settings on the list.

3. Select [Single Apply] (d) for the [Apply Mode] setting.
4. Click the [Select Printer] drop-down list (e) and select the designated printer to be applied with the selected printer settings.

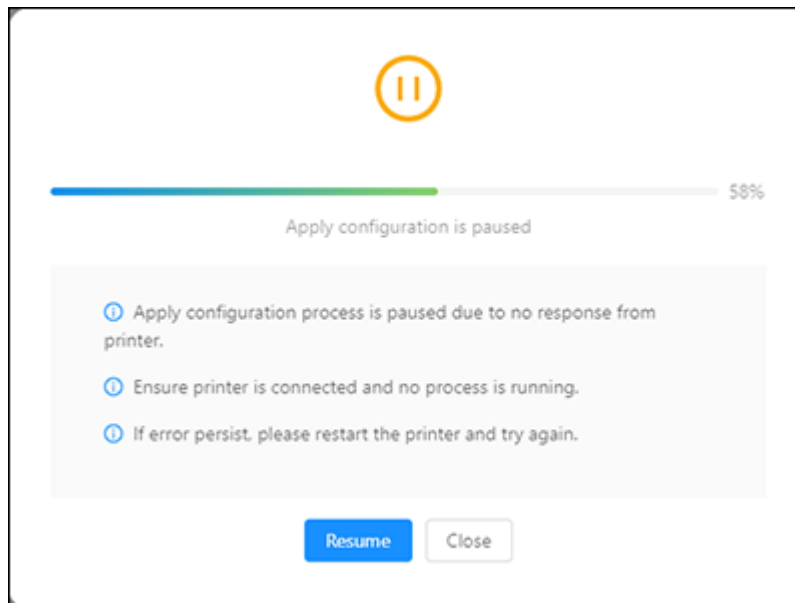
You need to select the printer of the same printer series with the printer settings.

5. Click [OK] to proceed.

The progress dialog is shown.



6. If there is any interruption due to the printer being disconnected or the printer is performing other operations, the applying process is paused.



- If you click [Close], the applying process will be canceled.

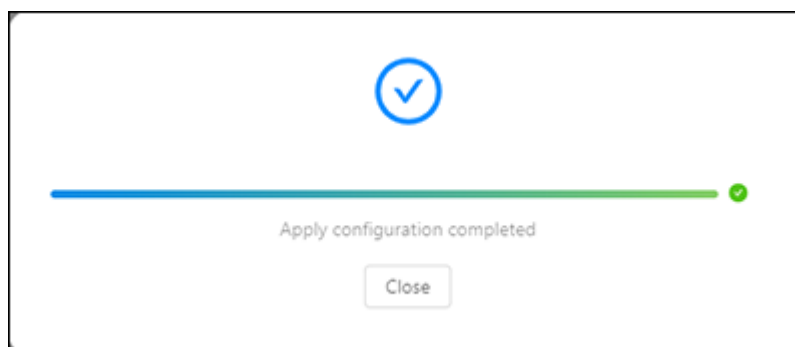
7. Check and make sure that the printer is connected and the printer is not performing any operation, such as printing, installing, etc.

8. After checking, click [Resume] to continue.



- If the error occurred again after resumed, click [Close] to cancel the process. Restart the printer and perform the Apply Configuration procedure again.

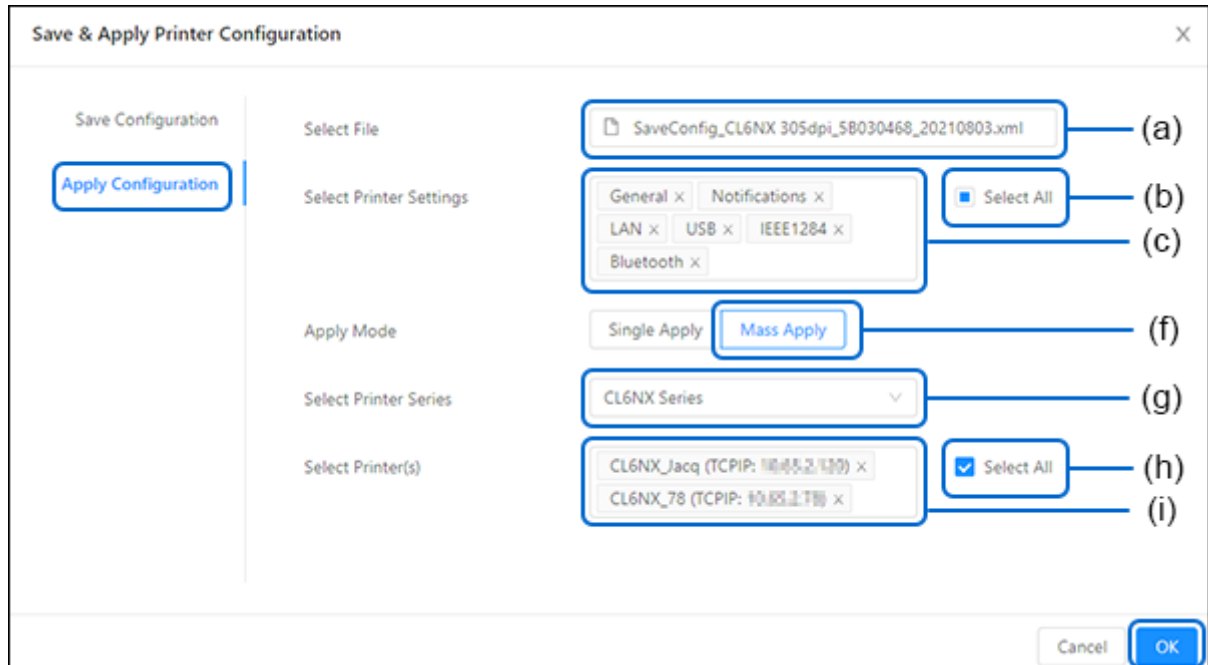
9. When the applying process is completed, the following dialog is shown.



10. Click [Close] to end the process.

Mass Apply the Configuration File to Multiple Printers

This feature is to apply the printer configuration to more than one printer (within the same model series) concurrently.



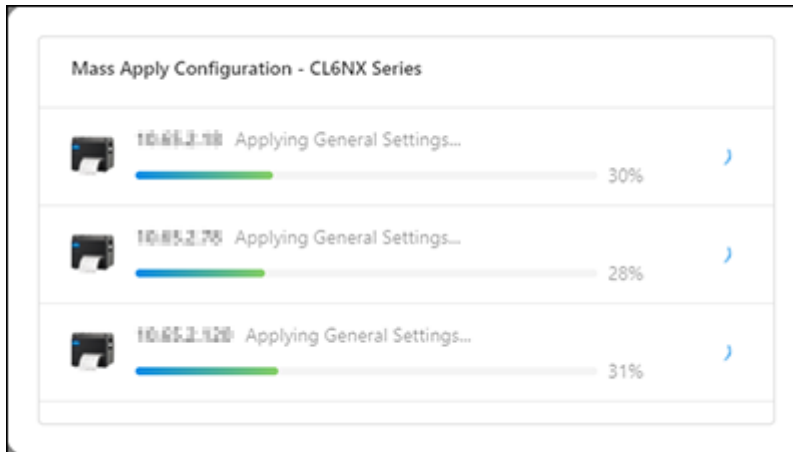
1. On the [Apply Configuration] tab menu, click the file insert box (a) and select the XML file previously saved.
2. Click the [Select Printer Settings] drop-down list (c) and select the available printer settings.
You can have multiple selections of the printer settings or select the [Select All] check box (b) to select all the printer settings on the list.
3. Select [Mass Apply] (f) for the [Apply Mode] setting.
4. Click the [Select Printer Series] drop-down list (g) to select the same printer series to be applied with the selected printer settings.
5. Click the [Select Printer(s)] drop-down list (i) and select the available printers of the selected printer series.

You can have multiple selections of the printers to be applied with the selected printer settings.

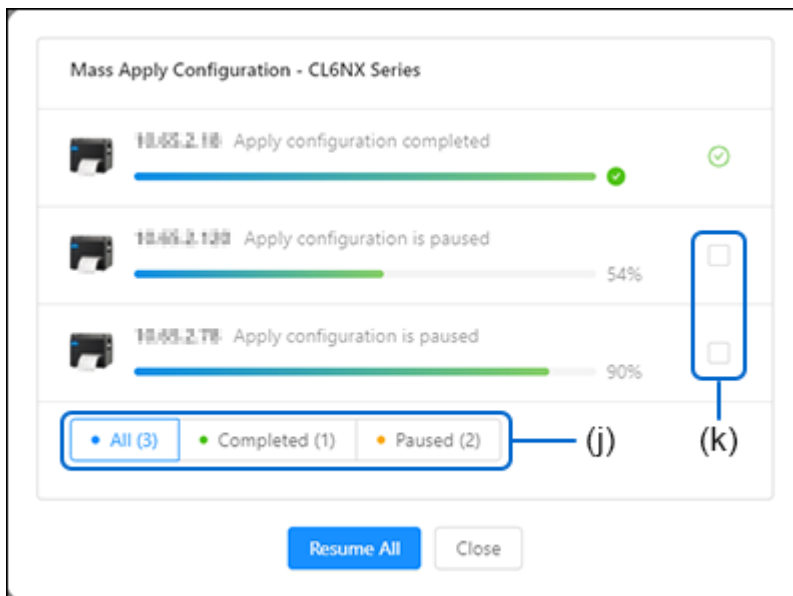
Or, you can select the [Select All] check box (h) to select all the printers on the list.

6. Click [OK] to proceed.

The progress dialog for all selected printers is shown.



7. If there is any interruption due to the printer being disconnected or the printer is performing other operations, the applying process is paused.



On the progress dialog, click the buttons (j) to show the printer list based on the printer status. The parenthesis on each button shows the number of printers.

- [All] button: Click to show all printers to be applied with the printer configuration.
- [Completed] button: Click to show those printers that have completed applying the printer configuration.
- [Paused] button: Click to show those printers that the applying process is paused.



- If you click [Close], the applying process will be canceled for all the remaining printers.

8. Check on those printers that the applying process is paused. Make sure that the printers are connected and the printers are not performing any operation, such as printing, installing, etc.

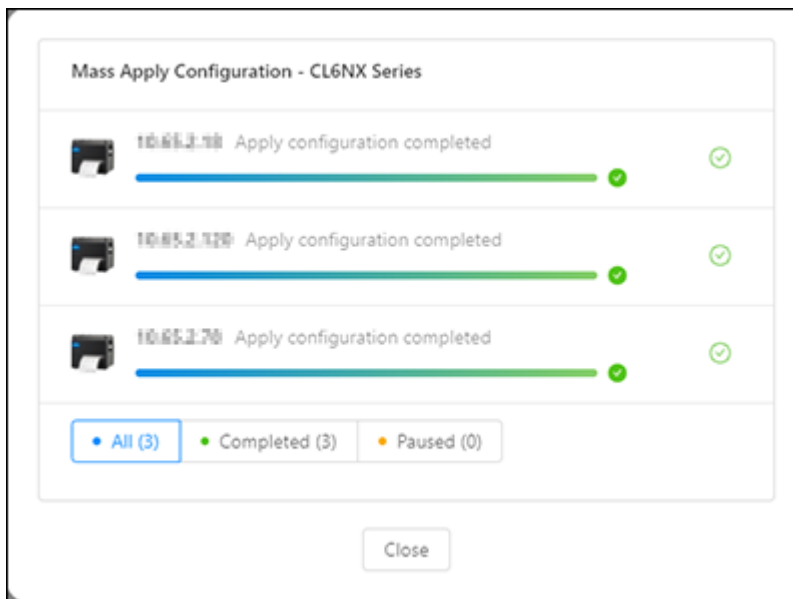
9. After checking, click [Resume All] to continue the applying process for all the remaining printers.

Or, you can select the check box (k) of the respective printer and click [Resume Selected] to continue the applying process for the selected printers.



- If the error occurred again after resumed, click [Close] to cancel the process. Restart the printer and perform the Apply Configuration procedure for the remaining printers again.
-

10. When the applying process is completed, the following dialog is shown.



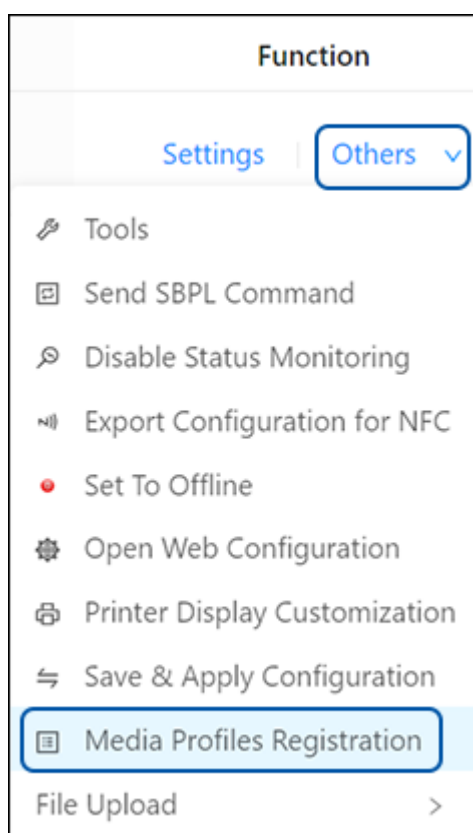
11. Click [Close] to end the process.

Media Profiles Registration

When you are using multiple types of media, register print settings as media profiles for each type of media. You can access the registered media profiles from the Home screen and apply them to the printer. You can easily switch the settings when replacing the media. You can register a maximum of 5 media profiles.

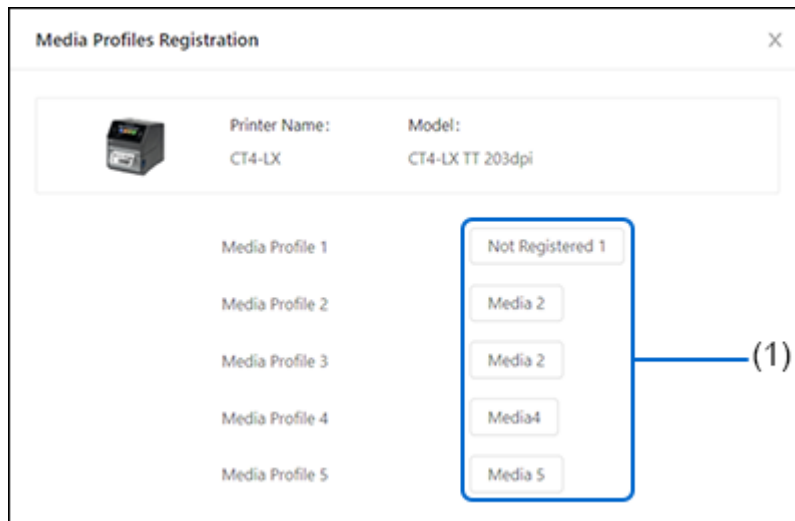
This feature is available only for CT4-LX/CT4-LX-HC/HC4-LX series printers.

1. On the printer page, click [Others] > [Media Profiles Registration] of the selected printer.



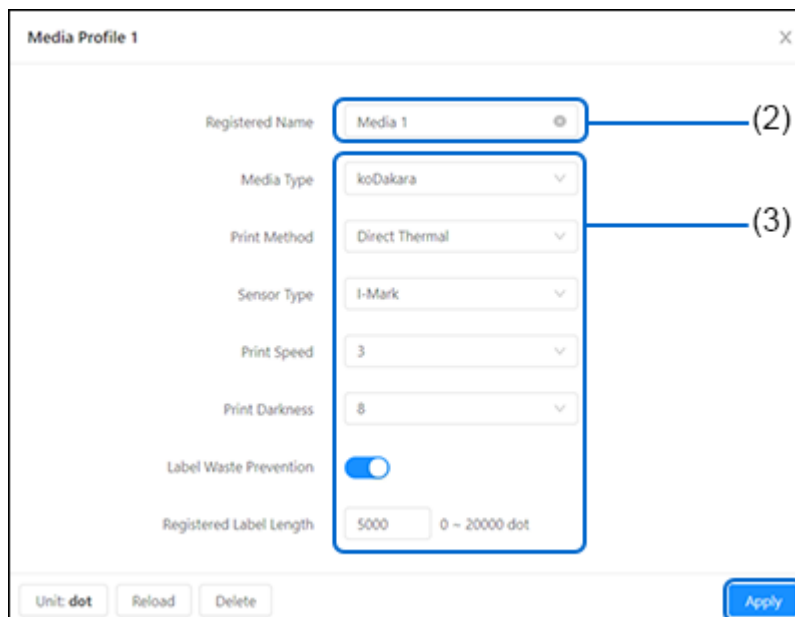
The [Media Profiles Registration] dialog is shown.

2. Click one of the buttons on the right (1) to select the Media Profile to be registered or modified.



The selected Media Profile dialog is shown.

3. Enter the registered name (2) and set each print setting item (3) as listed in the dialog.



- You can click [Unit: dot] to change the unit of the label length to [Unit: mm] or [Unit: inch].
- Click [Reload] to reload the print settings of the selected media profile.
- Click [Delete] to delete the selected media profile of the printer.

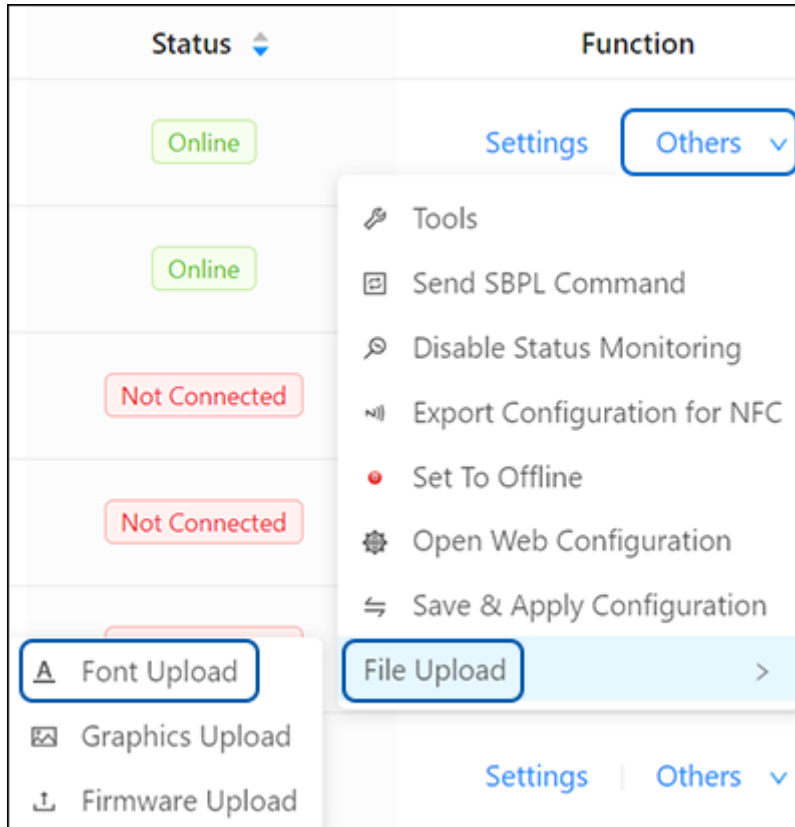
4. Click the [Apply] button to register or apply changes to the selected media profile.

The profile information is saved in the printer.

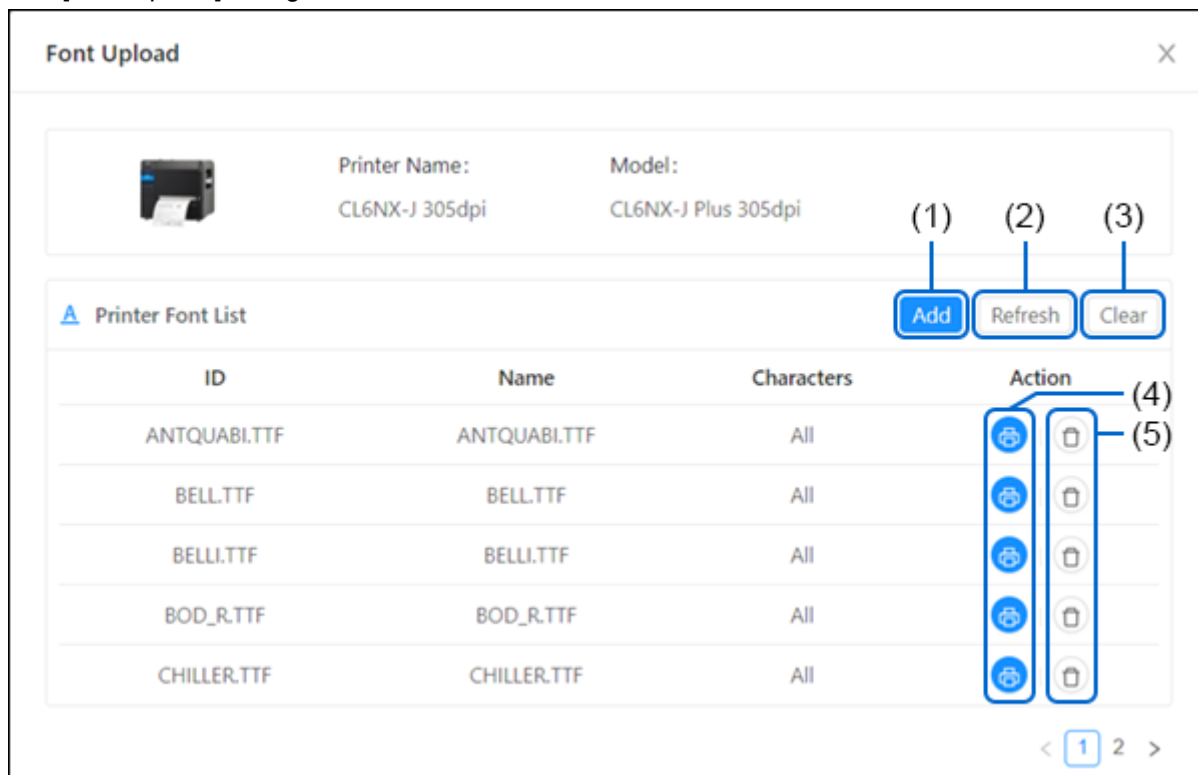
Font Upload

This feature enables you to upload fonts to printers.

On the printer page, click [Others] > [File Upload] > [Font Upload] of the selected printer.



The [Font Upload] dialog is shown.



If there is any font installed in the printer, the fonts are shown in the [Printer Font List].

- You can click the [Test Print] button (4) to perform a test print of the respective font.
- You can click the [Delete] button (5) to delete the respective font.
- You can click the [Refresh] button (2) to refresh the font list.
- You can click the [Clear] button (3) to delete all the fonts listed on the [Printer Font List].

Uploading a Font to the Printer

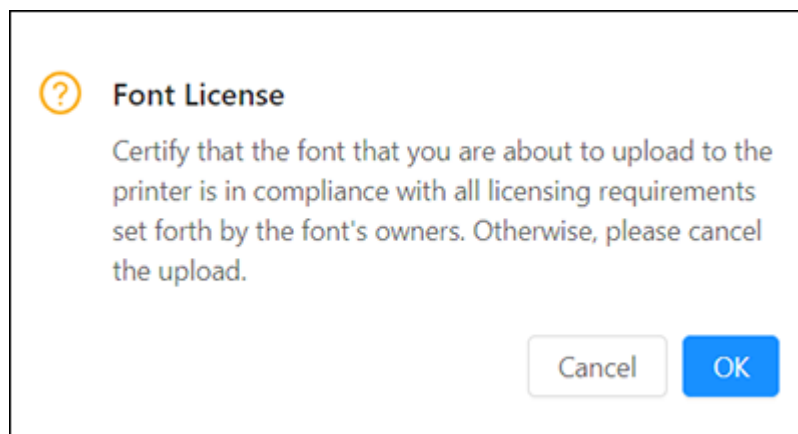
1. Click the [Add] button (1) to upload other fonts not installed in the printer.
[Add Fonts] dialog is shown.



2. [Default] is initially selected for the [Font Directory]. This refers to the system fonts installed in the PC.
3. Click the [Font Selection] drop-down list (6) and select the font.
The selected font is shown in the preview box (7).
4. Click [Upload].



- Some fonts have license terms (such as third-party fonts). You must comply with the license terms for those fonts.



Uploading a Font from Other Directories

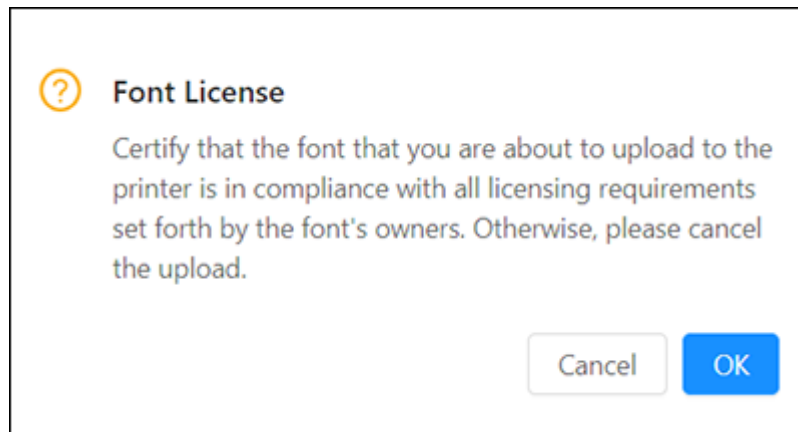
1. Click the [Add] button (1).
[Add Fonts] dialog is shown.
2. Select [Other] (8) for the [Font Directory].



3. Click the file insert box (9) and browse for other locations to select the font file.
4. Click [Upload].



- Some fonts have license terms (such as third-party fonts). You must comply with the license terms for those fonts.



Graphics Upload

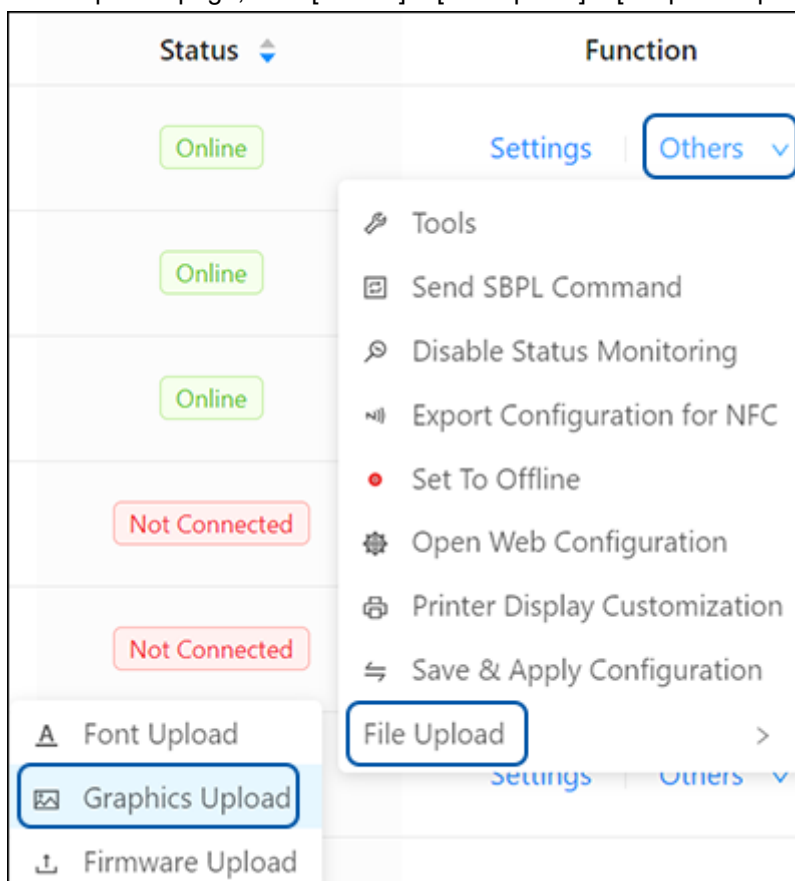
This function enables you to upload and save the graphics into the memory of a printer. It supports the following graphics formats:

- BMP
- JPG
- GIF
- PNG

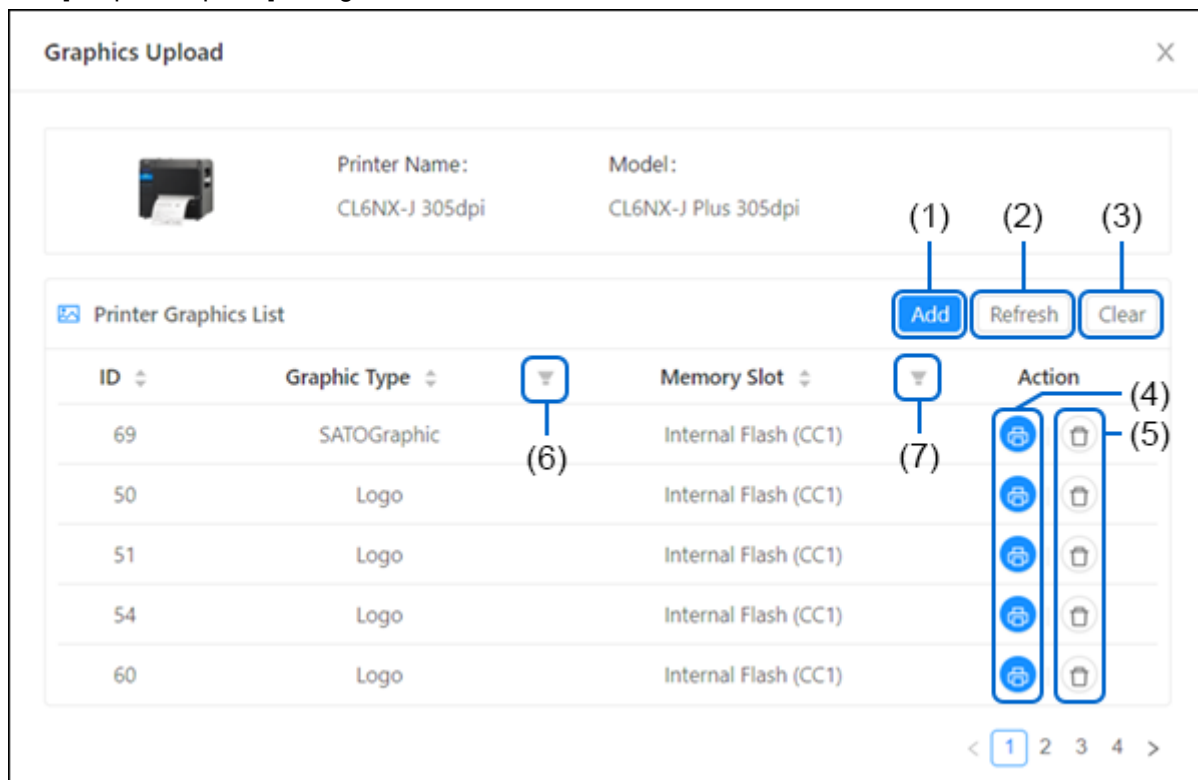
The function supports the following types of uploading formats:

- SATOgraphic: SATO graphics (ESC+GR/GI command)
- BMP: Bitmap images (ESC+GT/GC command)
- PCX: PCX images (ESC+PI/PY command)
- Logo: Logo in internal flash (FD command)

On the printer page, click [Others] > [File Upload] > [Graphics Upload] of the selected printer.



The [Graphics Upload] dialog is shown.



If there is any graphic installed in the printer, the graphics are shown in the [Printer Graphics List].

- You can click the [Test Print] button (4) to perform a test print of the selected graphic.
- You can click the [Delete] button (5) to delete the selected graphic.
- You can click the [Refresh] button (2) to refresh the graphics list.
- You can click the [Clear] button (3) to delete all the graphics listed on the [Printer Graphics List].
- You can perform filtering of the graphics list.

Click the filter symbol (6) on the right side of [Graphic Type] to filter the list by graphic type.

Click the filter symbol (7) on the right side of the [Memory Slot] to filter the list by memory slot.

- You can sort the graphics list by clicking [ID], [Graphic Type] or [Memory Slot] header.

Uploading a Graphics to the Printer

1. Click [Add] (1) to upload other graphics not installed in the printer.

The [Add Graphics] dialog is shown.

Add Graphics

Graphic Type: SATOGraphic, BMP, PCX, Logo (a)

Graphic ID: 1, 1 ~ 999 (b)

Memory Slot: Internal Flash (CC1) (c)

Graphic Path: Select (e)

Dither Mode: Disabled (d)

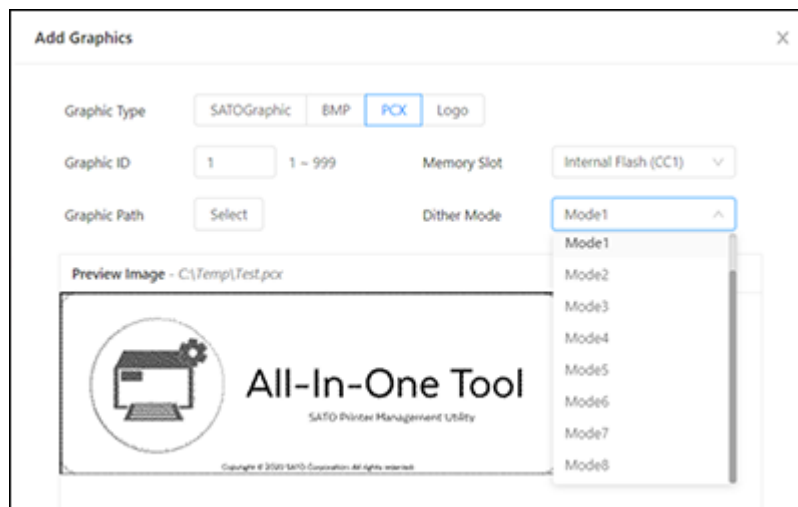
Preview Image - C:\Temp\Test.png (f)

Upload

2. Select the [Graphic Type] (a) for the graphic that you want to upload.
3. Enter the identification number of the graphic in the [Graphic ID] text box (b).
The next available identification number for the selected graphic type is shown as default.
4. Click the [Memory Slot] drop-down list (c) and select the memory location that you want to save the graphic.
[Memory Slot] is not available if [Logo] is selected in [Graphic Type].
5. Click the [Dither Mode] drop-down list (d) and select the dithering effect.
The Dithering effect feature is only applicable if you have selected [BMP], [PCX] or [Logo] in [Graphic Type]. It allows the uploading of graphics with color fading effects.
6. Click the [Graphic Path] selection box (e) to select the graphic file from the PC file system.
The selected graphic is shown in the [Preview Image] box (f).
7. Click [Upload].



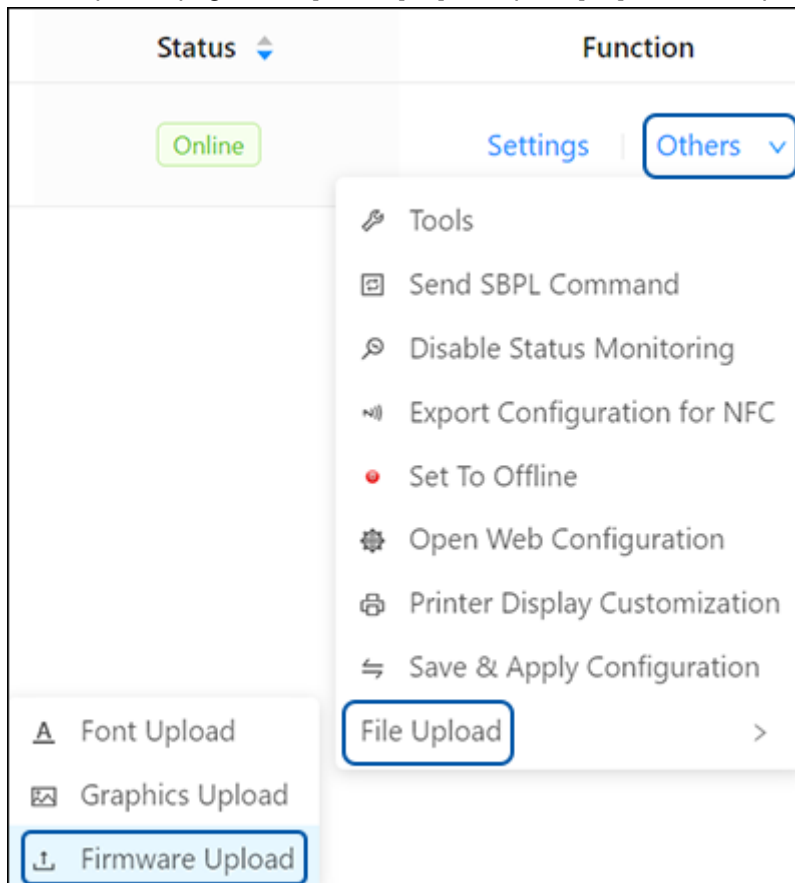
- When the [Dither Mode] is set, the [Preview Image] box shows the output of the dithering effect.



Firmware Upload

This function allows the authorized SATO technical personnel to upload the firmware to the printer. Please contact your SATO reseller or technical support center if you need to upload any firmware to the printer.

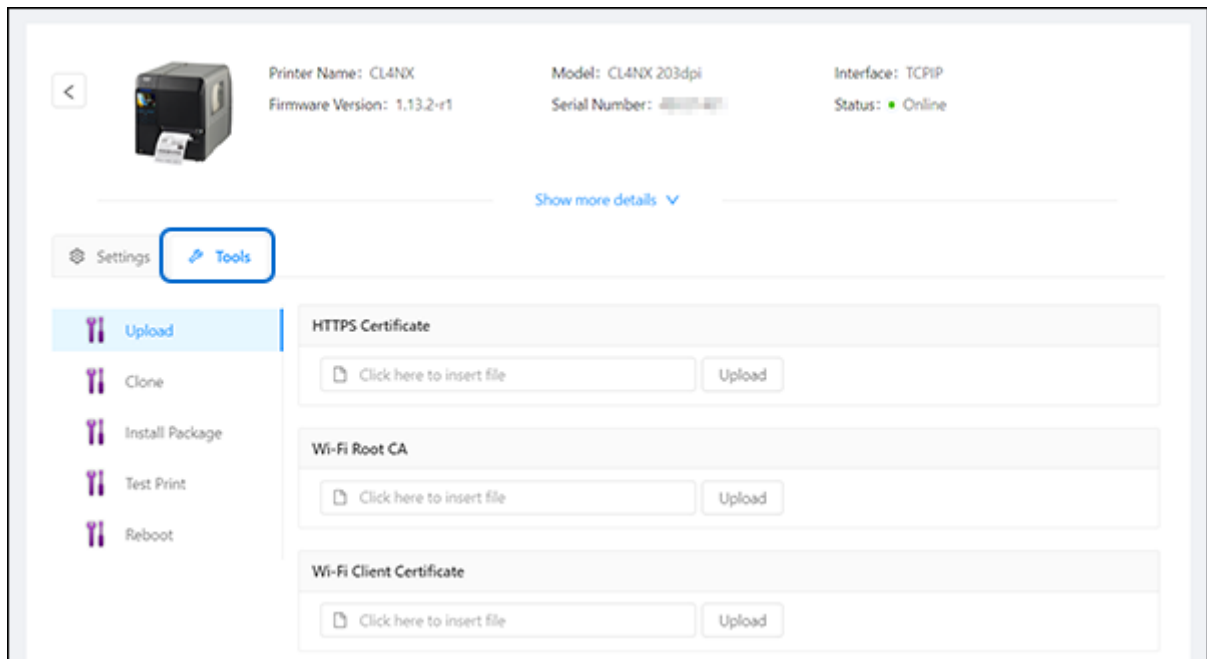
On the printer page, click [Others] > [File Upload] > [Firmware Upload] of the selected printer.



This shortcut will direct you to the [Others] > [Tools] > [Install Package].

 Refer to [Install Package](#) for more details.

The [Tools] Menu



- Click the  button on the top left of the [Tools] menu to return to the printer page.

The following functions are available in the [Tools] menu.

 [Upload](#)

 [Clone](#)

 [Install Package](#)

 [Test Print](#)

 [Reboot](#)

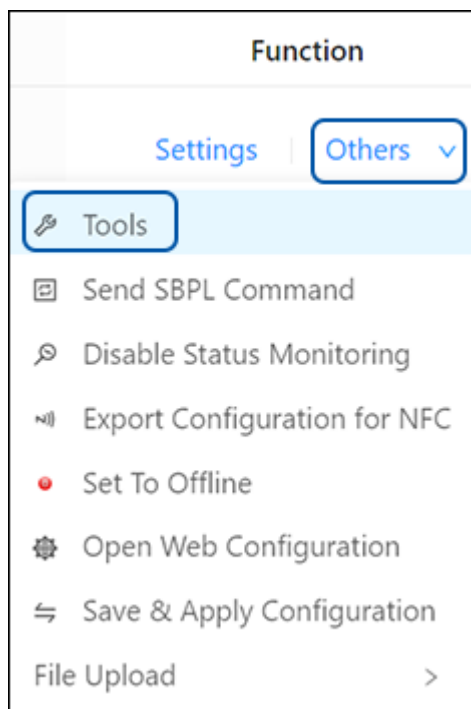
Upload

You can upload certificates used for Wi-Fi authentication and HTTPS.

The available options are:

- [HTTPS Certificate]
- [Wi-Fi Root CA]
- [Wi-Fi Client Certificate]
- [Wi-Fi Private Key]
- [Wi-Fi EAP-FAST PAC File]

1. On the printer page, click [Others] > [Tools] of the selected printer.



The [Tools] menu is shown with the [Upload] tab initially selected.

2. On the [Upload] menu, click the file insert box of the certificate that you want to upload and select the certificate file.

The screenshot shows a web interface with a top navigation bar containing 'Settings' and 'Tools' tabs. The 'Tools' tab is active. On the left, a sidebar menu lists 'Upload', 'Clone', 'Install Package', 'Test Print', and 'Reboot', with 'Upload' highlighted. The main content area displays five certificate-related sections, each with a file upload box and an 'Upload' button:

- HTTPS Certificate**: File insert box with text 'Click here to insert file' and an 'Upload' button.
- Wi-Fi Root CA**: File insert box with text 'Click here to insert file' and an 'Upload' button.
- Wi-Fi Client Certificate**: File insert box with text 'Click here to insert file' and an 'Upload' button.
- Wi-Fi Private Key**: File insert box with text 'Click here to insert file' and an 'Upload' button.
- Wi-Fi EAP-FAST PAC File**: File insert box with text 'Click here to insert file' and an 'Upload' button.

The acceptable file extensions of the certificate file are as follows:

- .pem, .crt, .cer, .der for Root CA and client certificate in PEM or DER format
- .pfx and .p12 for client certificates in PKCS #12 format
- .prv and .key for private keys in PEM/PKCS#8 format
- .pac for PAC files

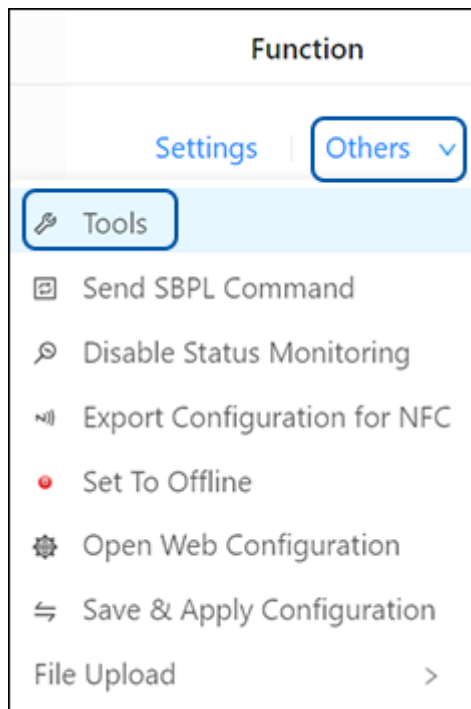
3. Click the [Upload] button beside the selected certificate option.

Clone

You can copy the printer settings and save them as a PKG file to the PC.

This function is used for taking the settings of an existing printer and installing them in a new printer, or when you are setting up multiple printers with the same settings.

1. On the printer page, click [Others] > [Tools] of the selected printer.

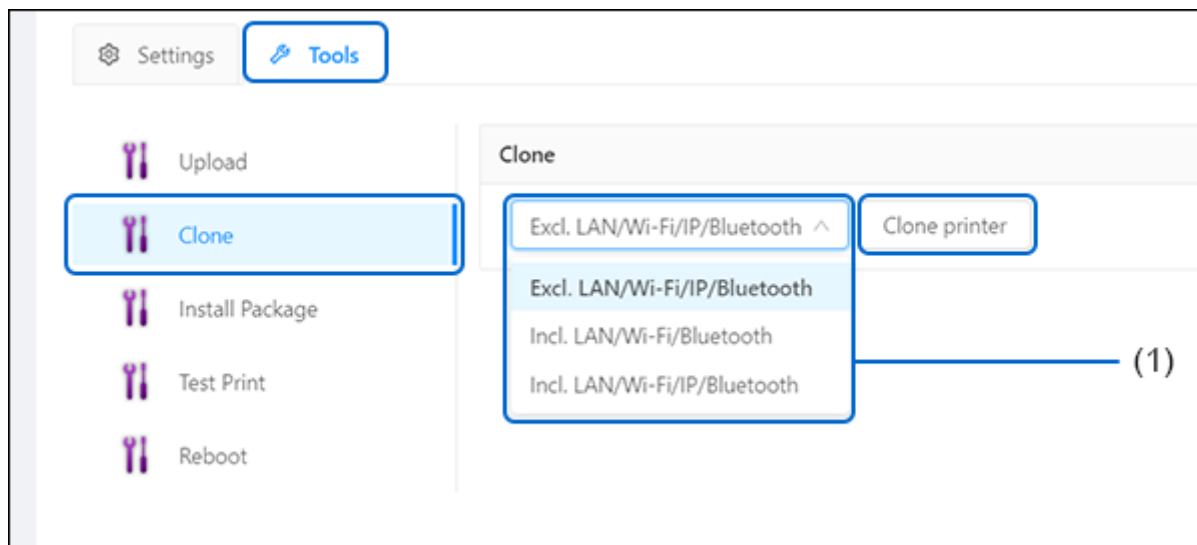


The [Tools] menu is shown.

2. Click the [Clone] tab.

The [Clone] menu is shown.

3. On the [Clone] menu, click the drop-down list (1) and select one of the following options.



[Excl. LAN/Wi-Fi/IP/Bluetooth]

Copy the printer settings and data, excluding network information (LAN, Wi-Fi, IP and Bluetooth). Select [Excl. LAN/Wi-Fi/IP/Bluetooth] when you are setting up multiple printers, which have been connected via a network, with the same printer settings.

[Incl. LAN/Wi-Fi/Bluetooth]

Copy the printer settings and data, including network information (excluding the IP address). Select [Incl. LAN/Wi-Fi/Bluetooth] when you are setting up multiple printers, which are to be connected to the same network, with the same printer settings.

[Incl. LAN/Wi-Fi/IP/Bluetooth]

Copy the printer settings and data, including network information (including the IP address). Select [Incl. LAN/Wi-Fi/IP/Bluetooth] to take the settings of a printer, that is being replaced, and install them in a new printer.

4. Click [Clone printer].



- The settings are saved in a PKG file format. You cannot open it in a text editor to check or edit the data.
- To apply the settings to a printer, use the [Install Package] function in the [Tools] menu.



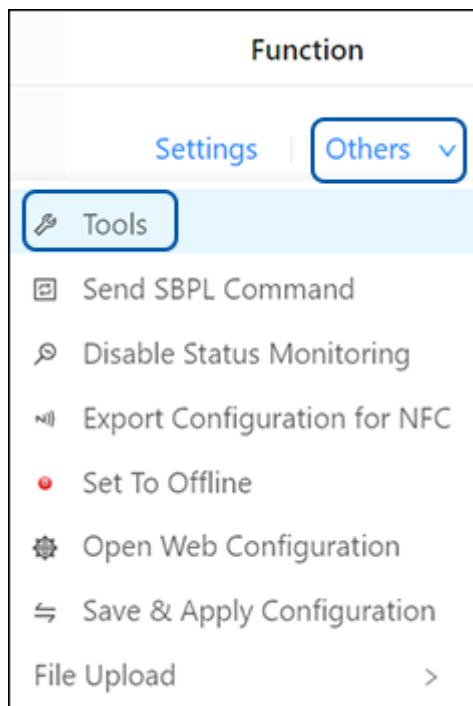
Refer to [Install Package](#) for more details.

Install Package

This feature allows you to apply the clone configuration to the printer in a PKG format file or install the AEP package to the printer.

The authorized SATO technical personnel can also install the printer firmware or firmware patch to the printer. Please contact your SATO reseller or technical support center if you need to install any firmware to the printer.

1. On the printer page, click [Others] > [Tools] of the selected printer.

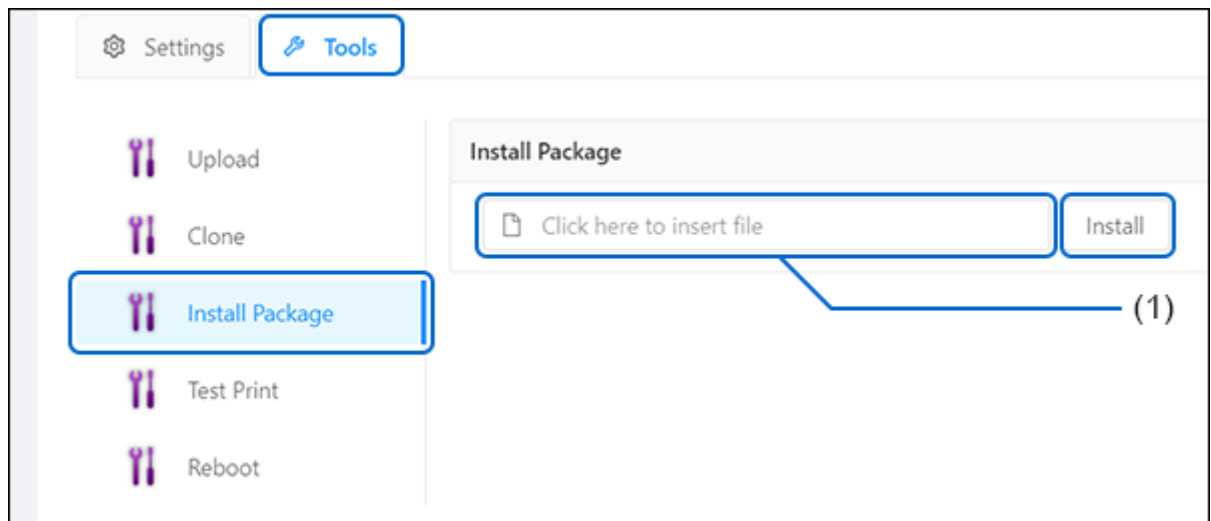


The [Tools] menu is shown.

2. Click the [Install Package] tab.

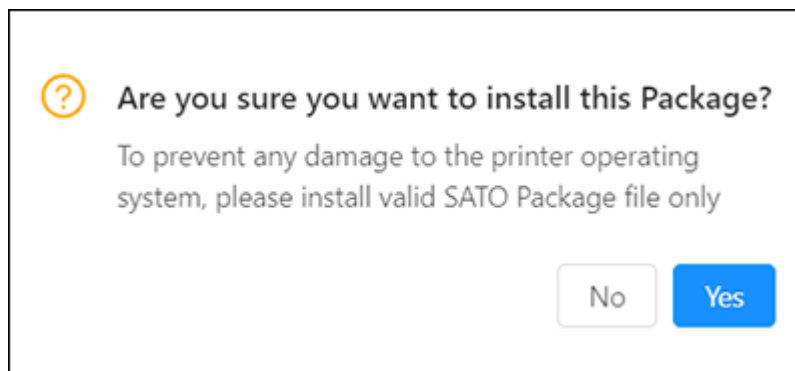
The [Install Package] menu is shown.

3. Click the file insert box (1) to select the package file for the installation.



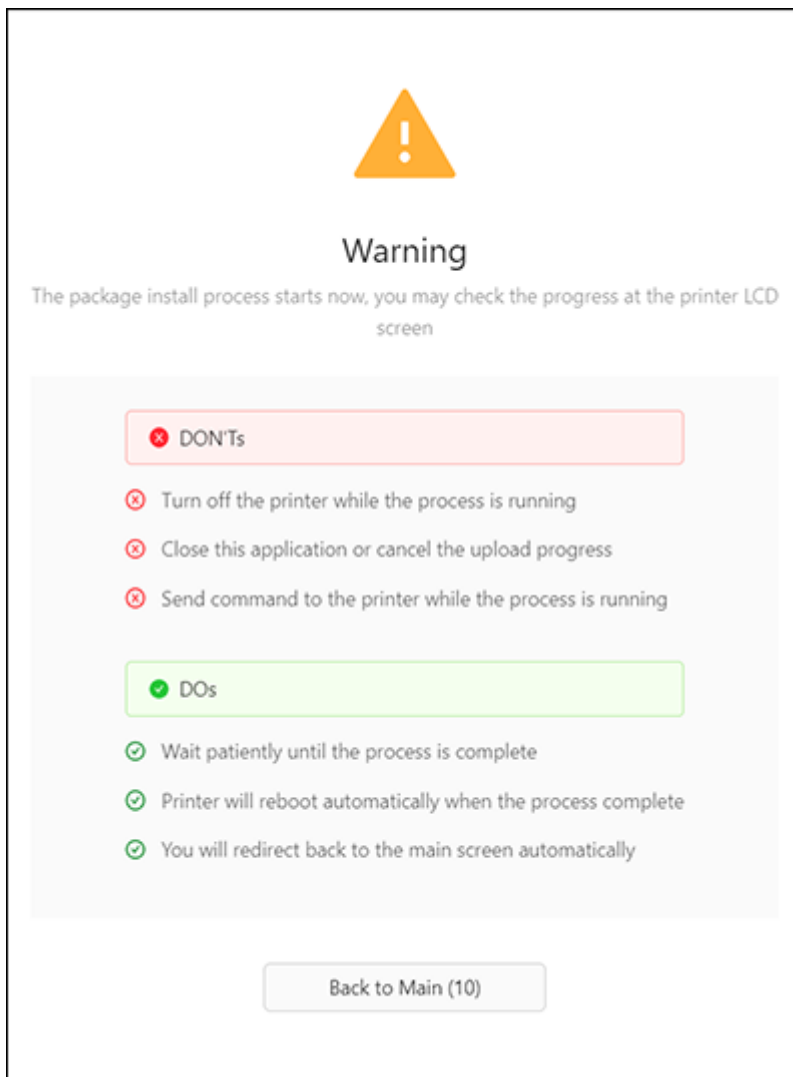
4. Click [Install].

A confirmation dialog is shown.



5. After confirming, click [Yes] to proceed.

The installation started and the warning dialog is shown.



6. Read the warning message carefully and wait for the installation to be completed.

The printer will reboot automatically when the installation is completed.

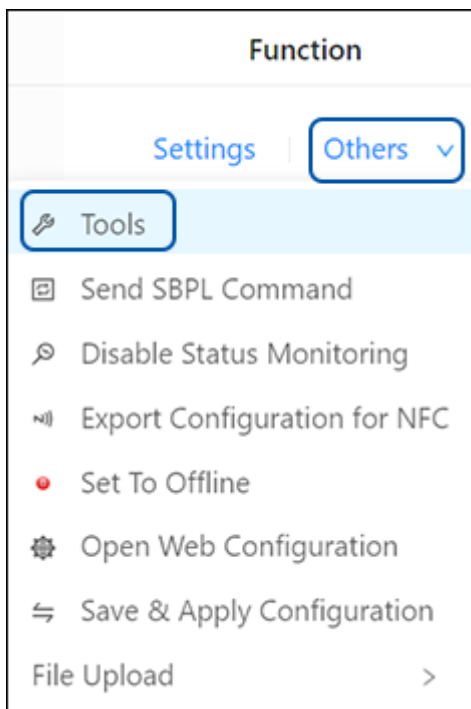
Test Print

You can perform a test print using a designated file, or the selected printer setting information.

Test Printing Using a Designated File

You can perform a test print using a test print file.

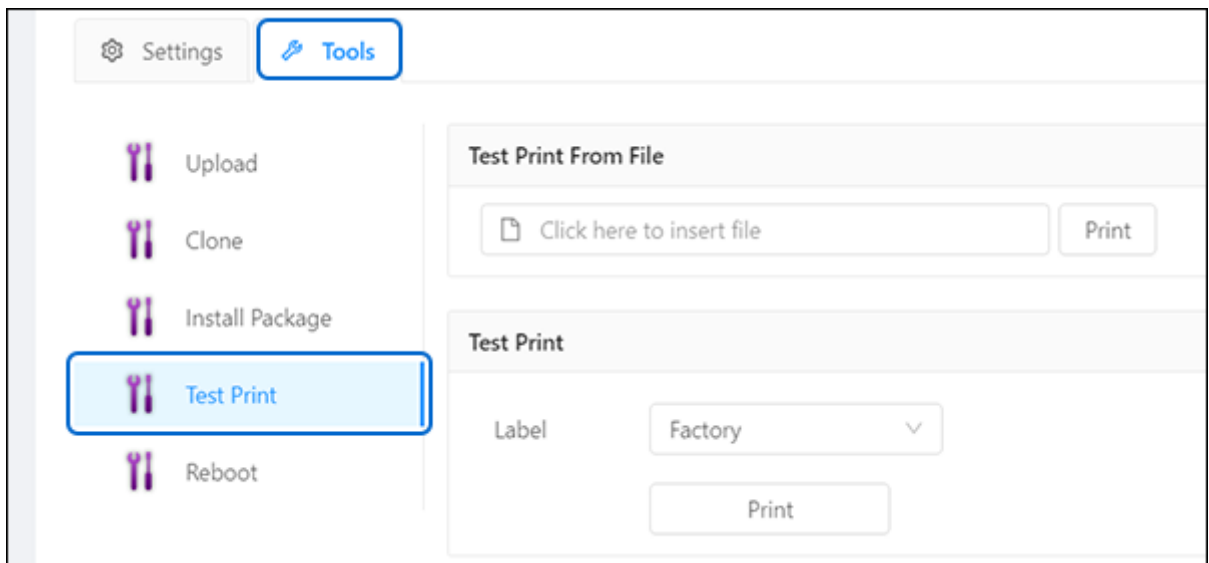
1. On the printer page, click [Others] > [Tools] of the selected printer.



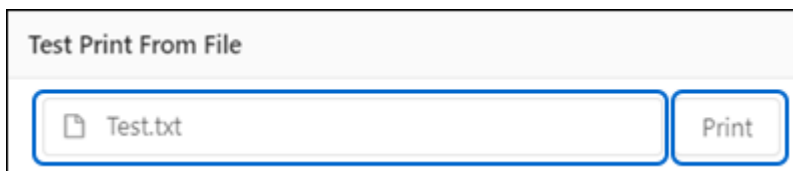
The [Tools] menu is shown.

2. Click the [Test Print] tab.

The [Test Print] menu is shown.



3. Click the file insert box and select the file for the test print from the PC file system.



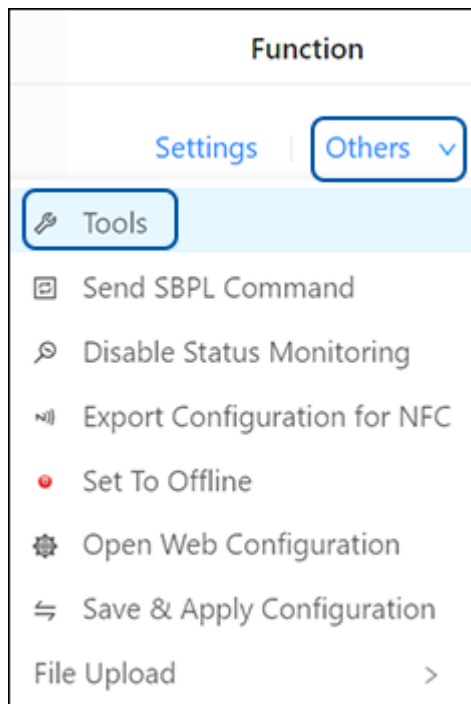
4. Click [Print].

Test Printing with the Printer Settings Information

You can also perform a test print with the following printer settings information options.

- [Factory]: Perform a factory test print.
- [Configure List]: Perform a test print using a configuration list.
- [Configure QR]: Perform a test print using a configuration QR.

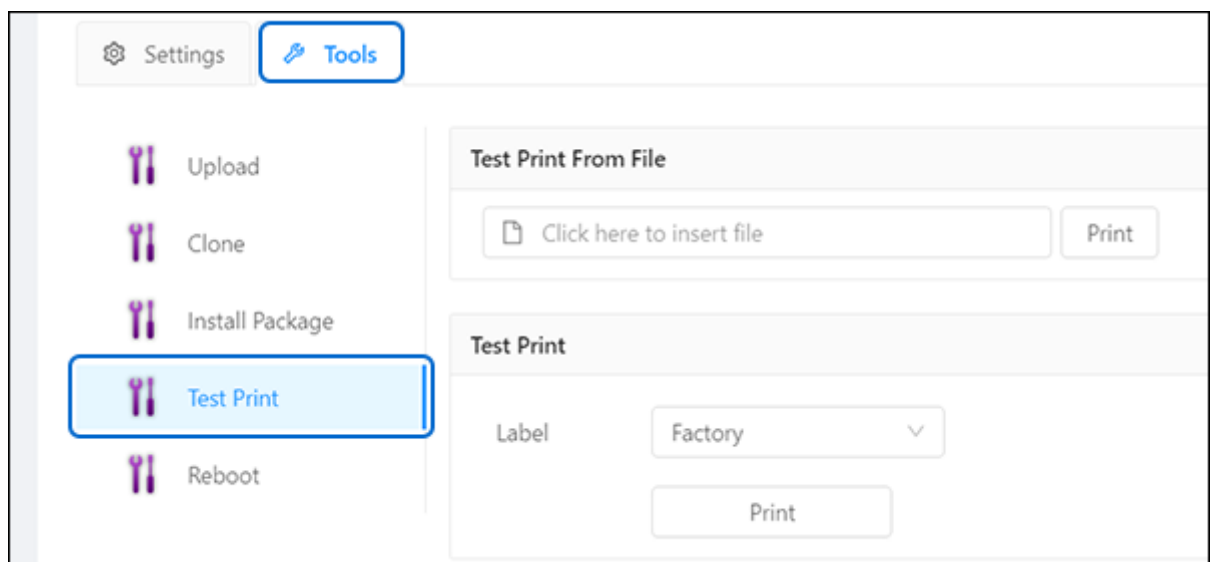
1. On the printer page, click [Others] > [Tools] of the selected printer.



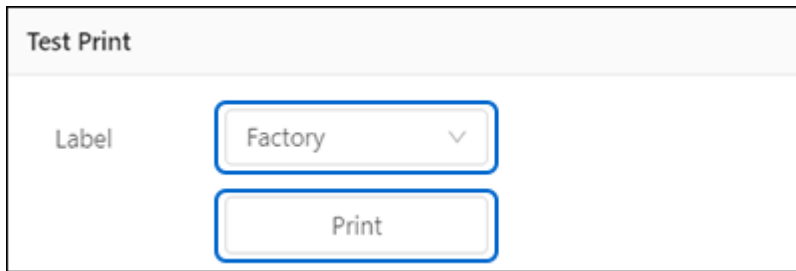
The [Tools] menu is shown.

2. Click the [Test Print] tab.

The [Test Print] menu is shown.



3. Select [Factory], [Configure List] or [Configure QR] from the [Label] drop-down list.



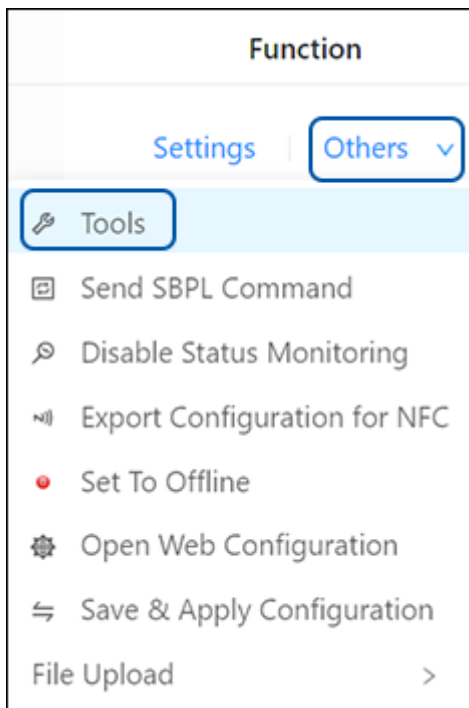
The image shows a 'Test Print' dialog box. It has a title bar 'Test Print'. Inside, there is a label 'Label' next to a dropdown menu. The dropdown menu is open, showing 'Factory' as the selected option. Below the dropdown menu is a 'Print' button. The 'Label' and the dropdown menu are highlighted with blue boxes.

4. Click [Print].

Reboot

You can restart the printer remotely.

1. On the printer page, click [Others] > [Tools] of the selected printer.

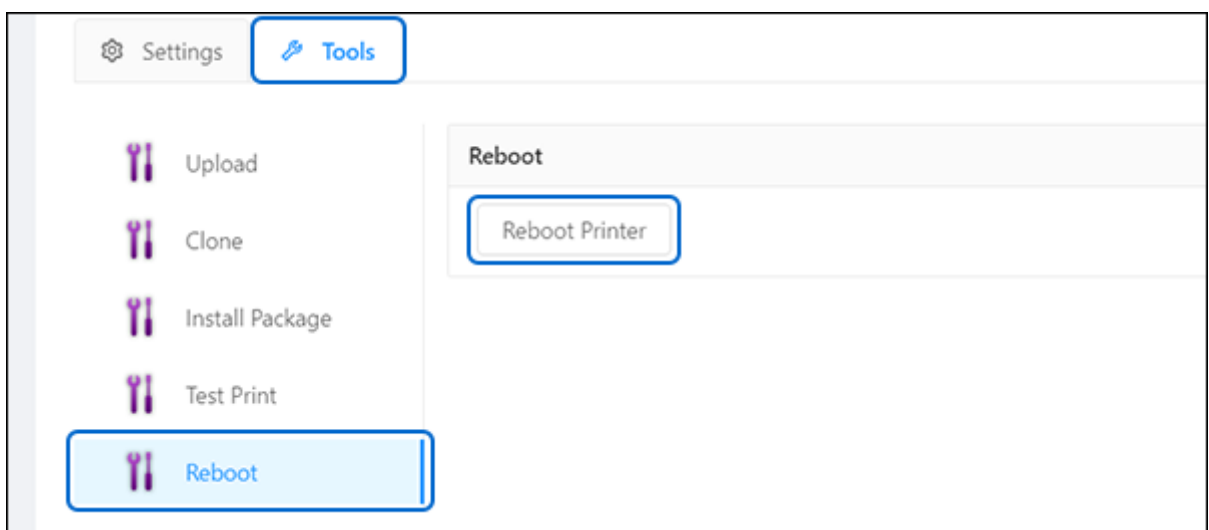


The [Tools] menu is shown.

2. Click the [Reboot] tab.

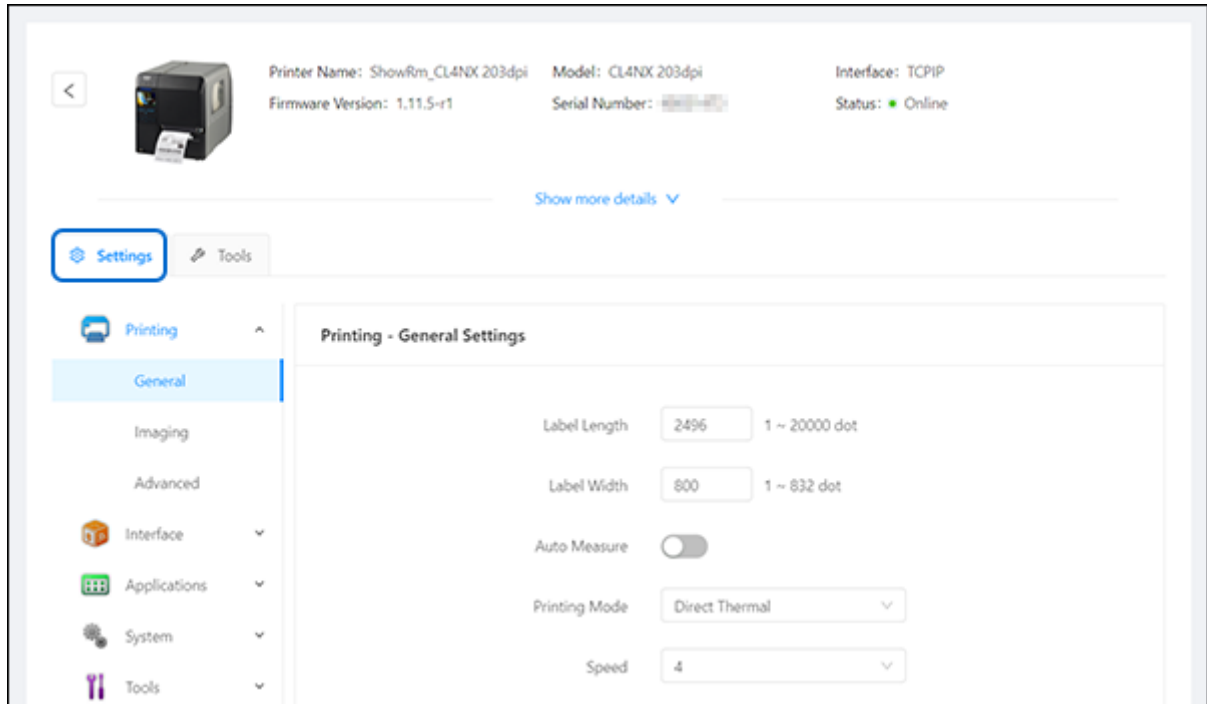
The [Reboot] menu is shown.

3. To restart the printer, click [Reboot Printer].



The [Settings] Menu

You can remotely set most of the printer configuration in the All-In-One Tool application.



- Click the  button on the top left of the [Settings] menu to return to the printer page.

The following list shows all possible categories of menus and setting items for all of the supported printers.



- Some menu options or setting items listed here may not be shown on the current All-In-One Tool menu, it depends on the availability of the selected printer.
- Please refer to each printer's operator manual for more details of the setting and function.

[Printing] Menu

The following settings are available in the [Printing] menu:



- Some menu options or setting items listed here may not be shown on the current All-In-One Tool menu, it depends on the availability of the selected printer.
 - Please refer to each printer's operator manual for more details of the setting and function.
-

[General] Settings

The general setting items are as follows:

[Media Type]

Set the media type.

[Label Length]

Set the length of the media.

The setting range varies depending on the print resolution of the printer.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
 - Set the label size to a value that includes the liner.
-

[Label Width]

Set the width of the media.

The setting range varies depending on the print resolution of the printer.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
 - Set the label size to a value that includes the liner.
-

[Auto Measure]

The printer automatically measures the length of the media.

The measured length of the media will be automatically saved in [Label Length].

[Printing Mode]

Select whether to print using a ribbon or to print using direct thermal media.

Available only for the combined direct thermal / thermal transfer model.

[Ribbon Near End]

When [Ribbon Near End] is enabled, the warning icon appears when the ribbon is about to run out. Printing does not stop even if the warning icon shows up.

Appears only if you have selected [Use Ribbon] in the [Printing Mode] menu on the combined direct thermal / thermal transfer model.

[Speed]

Set the print speed.

[Sensor Type]

Set the sensor type for detecting the media.

[I-Mark Position]

Set the position of the I-mark.

[Label Size]

Set the label size to determine the position of the center I-mark.

[I-Mark Offset]

Set the I-mark offset position.

[Auto-Mode]

When [Auto-Mode] is enabled, the print mode changes automatically according to the status of the installed option.

[Print Mode]

Manually set the print mode.

[Backfeed]

Set the backfeed operation.

[Eject Cut]

Set the Eject cut motion for the last printed media. Cut the last media after the specified timing.

[Darkness Range]

Set the range of the print darkness.

[Darkness]

Specify the print darkness from 10 steps.

The setting range is from 1 to 10. 1 is the lightest and 10 is the darkest.

[Peeling Setting]

Set the backfeed motion and sensor type in the Dispenser mode.

The setting items are as follows:

[Backfeed]

Set the backfeed motion in the Dispenser mode.

[Sensor Type]

Set the type of media pitch sensor to be used in the Dispenser mode.

[Imaging] Settings

Set the print reference position in the vertical and horizontal directions.

The setting items are as follows:

[Vertical]

Set the print position in the vertical direction.

[Horizontal]

Set the print position in the horizontal direction.

[Advanced] Settings

Set detailed print motion.

The setting items are as follows:

[Adjustments]

Correct the offset position, print position, print darkness and label top sensor position.

The setting items are as follows:

[Offset]

Correct the offset position.

Offset adjusts the backfeed amount and the media stop position for tear-off/cut/dispense operations.

Set the value '+' to move the offset position in the direction opposite to the feed direction and '-' to move in the feed direction.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Pitch]

By adjusting the print position, you can set the print start position to adjust the vertical print position.

Set the value '+' to move the print position in the direction opposite to the feed direction and '-' to move in the feed direction.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Pitch Offset]

Pitch Offset adjusts the offset position and the pitch position at the same time.

Set the value '+' to move the offset and pitch positions in the direction opposite to the feed direction and '-' to move in the feed direction.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Darkness Adjust]

Fine-tune the print darkness.

The setting range is from 0 to 99. 0 is the lightest and 99 is the darkest.

[Label Top Sensor]

Adjust position of the label top sensor.

This is not displayed if the optional dispenser unit or linerless cutter unit is installed.

Set the value '+' to correct the label top sensor in the direction opposite to the feed direction and '-' to correct in the feed direction.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
 - Please refer to each printer's operator manual for more details of the setting and function.
-

[Label Waste Prevention]

Set the Label Waste Prevention function.

This is not shown if the optional dispenser unit or linerless cutter unit is installed.

The setting items are as follows:

[Enable]

Enable or disable the Label Waste Prevention function.

Can be set if [Feed After Error] and [Feed At Power On] are disabled.

[Registered Label Length]

To accurately execute the Label Waste Prevention function, register the length of the media you are using. If you do not register the media length, the second and following labels may be fed blank.

Appears when the following conditions are met.

- [Label Waste Prevention] > [Enable] is enabled.
- On the [Printing] > [Media Type] menu, [Label] is selected.
- On the [Printing] > [Sensor Type] menu, [Gap] or [I-Mark] is selected.

Set a value for the media length that includes the liner.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Head Check]

Automatically check if there is a broken element of the print head.

[Head Check Mode]

Set the method for head check.

[Every Page]

Perform the head check for each specified number of media.

[Check Media Size]

Enable or disable media size check.

[Start Online]

Set whether to power on the printer in Online mode.

[Feed After Error]

Set whether to automatically feed the media when recovering from an error and changing to Online mode.

[Feed At Power On]

Set whether to automatically feed the media when the printer is powered on.

[Finisher Feed]

Set the media feed amount for tear-off, cut and dispense stop.

Set the media feed amount based on the print head position of 0.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Paper End]

Select the sensor for sensing the paper end.

[Head Base Position]

Set the position used for the base reference point for printing.

[Prioritize]

For the printer settings, set whether to give priority to settings performed on the printer or to settings performed by commands.

[Reprint]

Enable or disable the reprint function.

[Print End Position]

Adjust the media stop position or cut position when the [Sensor Type] is set to [None]. This adjustment also sets the blank amount from the media stop position.



- You can change the units to dots, " (inches), or mm in the [System] > [Regional] > [Unit] menu.
-

[Label Near End]

Shows or does not show the warning icon when the media is about to run out. Printing does not stop even if the warning icon shows up.

[Dispenser Mode]

Set the dispenser motion.

[Micro Label Print Mode] Settings

Set the micro label print mode operation.

Micro Label Print Mode is a mode to provide high accuracy printing for small-sized labels.

Available only for CL4NX Plus, CL6NX Plus, CL4NX-J Plus and CL6NX-J Plus series printers.

The setting items are as follows:

[Micro Label Print Mode]

Enable or disable the use of Micro Label Print Mode.

[Auto Label Length Detection]

Enable or disable automatic measurement of label length when the [Micro Label Print Mode] is set to [Enabled].

[Label Length Averaging Count]

Set the number of labels measured to be used for averaging the automatically set label length when the [Micro Label Print Mode] is set to [Enabled] and the [Auto Label Length Detection] is set to [Enabled].

[Label Length]

Set the label length manually when the [Micro Label Print Mode] is set to [Enabled] and the [Auto Label Length Detection] is set to [Disabled].

[Interface] Menu

The following settings are available in the [Interface] menu:

[General] Settings

The general setting items are as follows:

[Ignore CR/LF]

Set whether to ignore the CR/LF code (0x0D/0x0A) in the received data.

[Ignore CAN/DLE]

Set whether to ignore the CAN/DLE code (0x18/0x10) in the received data.

[Network] Settings

This menu is for using LAN or wireless LAN for the interface between the PC and the printer.

The setting items are as follows:

[Settings]

Set the LAN or wireless LAN, or select the interface.



- Some setting items listed here may not be shown on the current All-In-One Tool menu, it depends on the availability of the selected printer.
 - Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[LAN]

Set IPv4 or IPv6, the TCP/IP port number, and a proxy for the LAN.

The setting items are as follows:

[IPv4]

Set the IPv4 for the LAN.



- You cannot change [IP Address], [Netmask], [Gateway], or [DNS] if [Mode] is [DHCP].
-

The setting items are as follows:

[Mode]

Select the IP address assignment method.

[IP Address]

Set and check the IP address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the IP address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Netmask]

Set and check the subnet mask address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the subnet mask address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the subnet mask address.

[Gateway]

Set and check the default gateway address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the gateway address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS Primary Address] / [DNS Secondary Address]

Set and check the DNS server addresses.

If you have selected [DHCP] in the [Mode] menu, the screen shows the DNS server addresses you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the addresses of the DNS server.

[IPv6]

Set the IPv6 for the LAN.



- You cannot change [IP Address], [Prefix Length], [Gateway], or [DNS] if [Mode] is anything other than [Static].
-

The setting items are as follows:

[Mode]

Select the IP address assignment method or disable IPv6.

[IP Address]

Set and check the IP address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the IP address you acquired.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Prefix Length]

If you have selected [Static] in the [Mode] menu, set the prefix.

[Gateway]

Set and check the default gateway address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the gateway address you acquired.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS]

Set and check the address of the primary DNS server.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the DNS server address you acquired.

If you have selected [Static] in the [Mode] menu, set the address of the DNS server.

[Ports]

Set the TCP/IP port number.



- Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[Port1]

Set the port number for Port1.

[Port2]

Set the port number for Port2.

[Port3]

Set the port number for Port3.

[Flow Control]

Set the communication protocol.

[TCP Connection Queue]

Set whether to allow queuing for connection when multiple hosts or applications are sending connection requests to the printer.

[Legacy Status for Port 9100]

Set whether to change the return status format of Port3 to compatible mode.

Does not appear if you have selected [None] in the [Flow Control] menu.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [Status5] in the [Flow Control] menu.

[DHCP Options]

Set the DHCP options for the LAN.

Available only if you have selected [DHCP] in the [IPv4](LAN) > [Mode] menu or [IPv6](LAN) > [Mode] menu.

The setting items are as follows:

[Update DNS (Option 81)]

Enable or disable the use of DHCP server option 81.

[Hostname]

Set the hostname.

[Wi-Fi]

Set the wireless LAN.

The setting items are as follows:

[IPv4] (Wi-Fi)

Configure IPv4 for Wi-Fi.



- You cannot change [IP Address], [Netmask], [Gateway], or [DNS] if [Mode] is [DHCP].
-

The setting items are as follows:

[Mode]

Select the IP address assignment method.

[IP Address]

Set and check the IP address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the IP address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Netmask]

Set and check the subnet mask address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the subnet mask address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the subnet mask address.

[Gateway]

Set and check the default gateway address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the gateway address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS Primary Address]/[DNS Secondary Address]

Set and check the DNS server addresses.

If you have selected [DHCP] in the [Mode] menu, the screen shows the DNS server addresses you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the addresses of the DNS server.

[IPv6] (Wi-Fi)

Configure IPv6 for Wi-Fi.



- You cannot change [IP Address], [Prefix Length], [Gateway], or [DNS] if [Mode] is anything other than [Static].

The setting items are as follows:

[Mode]

Select the IP address assignment method or disable IPv6.

[IP Address]

Set and check the IP address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the IP address you acquired.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Prefix Length]

If you have selected [Static] in the [Mode] menu, set the prefix.

[Gateway]

Set and check the default gateway address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the gateway address you acquired.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS]

Set and check the address of the primary DNS server.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the DNS server address you acquired.

If you have selected [Static] in the [Mode] menu, set the address of the DNS server.

[Wi-Fi Direct]

Set the Wi-Fi Direct function.

[Device Name]

Manually enter the device name for the printer.

[WEP Conf.]

Set the WEP key.

Available only if you have selected [WEP] in the [Security] menu.

The setting items are as follows:

[Authentication]

Set the WEP authentication method.

[Key Index]

Set the key index.

Set the key index (WEP key) according to the access point of the wireless LAN you connect.

[Key #1] to [Key #4]

Set the WEP key #1 - key #4.

You can enter alphabet (capital and small letters) and numbers.

[WPA Conf.]

Set the WPA authentication.

Appears only if you have selected [WPA2+WPA] or [WPA2] in the [Security] menu.

The setting items are as follows:

[EAP Conf.]

Set the functions for EAP.

Appears only if you have selected items other than [Personal (PSK)] in the [WPA Authentication] menu or if you have selected [Dynamic WEP] in the [Security] menu.

The setting items are as follows:

[EAP Mode]

Set the EAP Mode (authentication mode).

[Inner Method]

Set the inner method.

Appears only if you have selected [FAST], [PEAP], or [TTLS] in the [EAP Mode] menu.

[Username]

Set the user name.

You can enter 0 to 63 characters. Alphabets, numbers and symbols can be used.

[Password]

Set the password.

You can enter 0 to 32 characters. Alphabets, numbers and symbols can be used.

[Anon. Outer ID]

Set the external ID.

Appears only if you have selected [FAST], [PEAP], or [TTLS] in the [EAP Mode] menu.

You can enter 0 to 63 characters. Alphabets, numbers and symbols can be used.

[Verify Server Cert.]

Enable or disable server certification validation.

Appears only if you have selected items other than [LEAP] in the [EAP Mode] menu.

[Private Key P/W]

Set the Private Key password.

Available only if you have selected [TLS] in the [EAP Mode] menu or [Inner Method] menu.

You can enter 0 to 64 characters. Alphabets, numbers and symbols can be used.

[PAC Auto Provisioning]

Enable or disable PAC auto provisioning.

Available only if you have selected [FAST] in the [EAP Mode] menu.

[PAC P/W]

Set the PAC password.

Appears only if you have selected [FAST] in the [EAP Mode] menu and if you disabled [PAC Auto Provisioning].

You can enter 0 to 64 characters. Alphabets, numbers and symbols can be used.

[WPA Authentication]

Set the WPA authentication method.

[PSK]

Set the PSK shared key.

Available only if you have selected [Personal (PSK)] in the [WPA Authentication] menu.

You can enter 8 to 63 ASCII characters or 64 hexadecimal digits. Alphabets, numbers and symbols can be used.

[SSID]

Set the SSID. Manually enter the name of the network you want to connect.

You can enter a maximum of 32 characters. Alphabets (capital and small letters), numbers and symbols can be used.

[Hidden SSID]

Set the hidden SSID (stealth function).

Available only if you have selected [Infrastructure] in the [Mode] menu.

[Mode]

Set the communication method of the wireless LAN.

[Channel]

Set the communication channel.

[Channel] can be set only if you have selected [Ad-hoc] in the [Mode] menu.

The number of channels you can set varies depending on the region of the printer.

[Security]

Set the security method of the network. Set the security methods so that the printer, host and network devices match.

[Interface]

Select the network interface.

This item is to select the network interface from LAN or wireless LAN when the selected printer has both interfaces installed.

[Services]

Set the TCP/IP port number, NTP, LPD, FTP or SNMP.



- Some setting items listed here may not be shown on the current All-In-One Tool menu, it depends on the availability of the selected printer.
 - Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[Ports]

Set the TCP/IP port number.



- Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[Port1]

Set the port number for Port1.

[Port2]

Set the port number for Port2.

[Port3]

Set the port number for Port3.

[Flow Control]

Set the communication protocol.

[TCP Connection Queue]

Set whether to allow queuing for connection when multiple hosts or applications are sending connection requests to the printer.

[Legacy Status for Port 9100]

Set whether to change the return status format of Port3 to compatible mode.

Does not appear if you have selected [None] in the [Flow Control] menu.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [Status5] in the [Flow Control] menu.

[NTP]

Set the functions for NTP.

The NTP function gets the time information from the NTP server via the network and sets the time of the printer.

The setting items are as follows:

[Enable]

Enable or disable the functions for NTP.

[Error]

Set to show the NTP error message if detected.

[Time Server IP]

Set the IPv4 address, IPv6 address, or DNS name of the NTP server.

[LPD]

Set the functions for LPD.

The setting items are as follows:

[Enable]

Enable or disable the LPD function.

[DNS Lookup]

Enable or disable the DNS Lookup function.

[FTP]

Set the functions for FTP.

The setting items are as follows:

[Enable]

Enable or disable the functions for FTP.

[FTP Timeout]

Set the connection timeout period between the printer's FTP server and clients.

[SNMP]

Set the functions for SNMP.

The SNMP function enables you to monitor and manage a UDP/IP-based network.

The setting items are as follows:

[Agent]

Set the Agent function.

The setting items are as follows:

[Read-Only]

Set the read-only function.

The setting items are as follows:

[SNMP Version]

Set the SNMP version.

[Community]

Set the read-only community name.

Appears only if you have selected [1|2c|3] or [1|2c] in the [SNMP Version] menu.

[User]

Set the read-only user name.

Appears only if you have selected [1|2c|3] or [3] in the [SNMP Version] menu.

[User Security]

Set the read-only security level.

Appears only if you have selected [1|2c|3] or [3] in the [SNMP Version] menu.

[Authentication Protocol]

Set the authentication protocol.

Appears only if you have selected [Authentication] or [Privacy] in the [User Security] menu.

[Authentication Passphrase]

Set the authentication passphrase.

Appears only if you have selected [Authentication] or [Privacy] in the [User Security] menu.

[Privacy Protocol]

Set the privacy protocol.

Appears only if you have selected [Privacy] in the [User Security] menu.

[Privacy Passphrase]

Set the privacy passphrase.

Appears only if you have selected [Privacy] in the [User Security] menu.

[Read-Write]

Set the read-write function.

The setting items are as follows:

[SNMP Version]

Set the SNMP version.

[Community]

Set the read-write community name.

Appears only if you have selected [1|2c|3] or [1|2c] in the [SNMP Version] menu.

[User]

Set the read-write user name.

Appears only if you have selected [1|2c|3] or [3] in the [SNMP Version] menu.

[User Security]

Set the read-write security level.

Appears only if you have selected [1|2c|3] or [3] in the [SNMP Version] menu.

[Authentication Protocol]

Set the authentication protocol.

Appears only if you have selected [Authentication] or [Privacy] in the [User Security] menu.

[Authentication Passphrase]

Set the authentication passphrase.

Appears only if you have selected [Authentication] or [Privacy] in the [User Security] menu.

[Privacy Protocol]

Set the privacy protocol.

Appears only if you have selected [Privacy] in the [User Security] menu.

[Privacy Passphrase]

Set the privacy passphrase.

Appears only if you have selected [Privacy] in the [User Security] menu.

[Enable]

Enable or disable the functions for Agent.

[Traps]

Set the Traps function.

The setting items are as follows:

[Enable]

Enable or disable the functions for Traps.

[SNMP Version]

Set the SNMP version.

[IP Version]

Set the IP version to use for trap destinations.

[Destinations]

Set the number of trap destinations.

[Destination 1]/[Destination 2]/[Destination 3]

Set address for the trap destination.

[Community]

Set the Traps community name.

Appears only if you have selected [1] or [2c] in the [SNMP Version] menu.

[User]

Set the Traps user name.

Appears only if you have selected [3] in the [SNMP Version] menu.

[Engine ID]

Set the engine ID.

Appears only if you have selected [3] in the [SNMP Version] menu.

[Security]

Set the security level.

Appears only if you have selected [3] in the [SNMP Version] menu.

[Authentication Protocol]

Set the authentication protocol.

Appears only if you have selected [Authentication] or [Privacy] in the [Security] menu.

[Authentication Passphrase]

Set the authentication passphrase.

Appears only if you have selected [Authentication] or [Privacy] in the [Security] menu.

[Privacy Protocol]

Set the privacy protocol.

Appears only if you have selected [Privacy] in the [Security] menu.

[Privacy Passphrase]

Set the privacy passphrase.

Appears only if you have selected [Privacy] in the [Security] menu.

[sysContact]

Set the contact information.

You can enter 0 to 255 characters. Alphabets, numbers and symbols can be used.

[sysName]

Set the name information.

You can enter 0 to 255 characters. Alphabets, numbers and symbols can be used.

[sysLocation]

Set the location information.

You can enter 0 to 255 characters. Alphabets, numbers and symbols can be used.

[Advanced]

Set the advanced function for the interface.



- Some setting items listed here may not be shown on the current All-In-One Tool menu, it depends on the availability of the selected printer.
 - Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[ARP Announcement]

Set the functions for ARP announcement.

The ARP announcement is useful for updating other hosts mapping of a hardware address when the IP address or MAC address of the sender has changed.

The setting items are as follows:

[Additional]

When the additional ARP announcement is enabled, the ARP is sent at 1, 2, 4, 8 and 16 seconds after the link up / DHCP assignment.

When the additional ARP announcement is disabled, the ARP is only sent at 1 second after the link up / DHCP assignment.

[Periodic]

Set the interval of the ARP announcement in the range of 0 to 600 seconds.



- The function is disabled if you set it to 0.
-

[IEEE1284] Settings

Set the IEEE1284 connection.

Appears only if the printer is equipped with this interface.

The setting items are as follows:

[Flow Control]

Set the communication protocol.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [Status5] in the [Flow Control] menu.

[RS-232C] Settings

Sets the RS-232C connection.

Appears only if the printer is equipped with this interface.

The setting items are as follows:

[Baudrate]

Set the baud rate (bps).

[Parameters]

Set the data parameters.

[Flow Control]

Set the communication protocol.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [STATUS5] in the [Flow Control] menu.

[USB] Settings

Set the USB connection.

The setting items are as follows:

[Flow Control]

Set the communication protocol.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [Status5] in the [Flow Control] menu.

[Change USB Serial]

Set the type of the USB serial number that the printer returns.

[Enabled]

Returns the USB serial number (00000000).

This option is suitable when you want to replace the printer without adding a new printer driver.

To do so, you need to set this setting to enabled before installing the printer.

[Disabled]

Returns the factory set USB serial number (unique to each printer).

This option is suitable when you want to set the printer driver for each printer.



- If two printers with the same USB serial number are connected to the same PC, it may cause the PC to show a blue screen error.
-

[Bluetooth] Settings

Set the Bluetooth connection.

The setting items are as follows:

[Enable]

Enable or disable the functions for Bluetooth.

[Name]

Set the device name for the printer.

You can enter 1 to 53 characters. Alphabets (capital and small letters), numbers and symbols can be used.

[PIN Code]

Set the PIN code.

You can enter 4 to 16 characters for the PIN code. Alphabets (capital and small letters), numbers and symbols can be used.

[BD Address]

Shows the BD address of the printer. (You cannot change this address.)

[Firm Version]

Shows the firmware version of the Bluetooth. (You cannot change this value.)

[iOS Reconnect]

Disable the iOS reconnect function or set to the Manual mode.

[Authentication]

Set the authentication level.

[ISI]

Set the ISI communication parameter.

The setting range is 0, or from 18 to 4096.

Set to a value that is more than the ISW communication parameter setting value.

[ISW]

Set the ISW communication parameter.

The setting range is 0, or from 18 to 4096.

The setting range varies depending on the ISI communication parameter setting value.

Set to a value that is less than the ISI communication parameter setting value.

[PSI]

Set the PSI communication parameter.

The setting range is from 18 to 4096.

Set to a value that is more than the PSW communication parameter setting value.

[PSW]

Set the PSW communication parameter.

The setting range is from 18 to 4096.

The setting range varies depending on the PSI communication parameter setting value.

Set to a value that is less than the PSI communication parameter setting value.

[Give BD Address]

When [Give BD Address] is enabled, the BD address is given to the device name for the printer.

[IO Compatible]

Set the authentication process for secure simple pairing.

[CRC Mode]

Enable or disable the CRC check function.

[Flow Control]

Set the communication protocol.

[NFC] Settings

Sets the NFC connection.

The setting items are as follows:

[I/F Enable]

Enables or disables the NFC interface.

[External I/O] Settings

Use the external (EXT) terminal as an interface between the external device and the printer.

The setting items are as follows:

[Signals]

Set the input/output signals.

Appears only if you have selected [Enabled] in the [Print Start Signal] menu.

The setting items are as follows:

[Inputs]

Assign the pin No. to the input signals Print Start and Reprint.

The setting items are as follows:

[Start Print]

Assign the pin No. for the Print Start signal input.

[Reprint]

Assign the pin No. for the Reprint signal input.



- You cannot set any inputs using the same pin number. If you attempt to set the same number, "Invalid Value" will be shown in red and you cannot save the settings.
-

[Outputs]

Assign the pin No. to the output signals.

The setting items are as follows:

[Paper/Ribbon End] (For RFID models)

Assign the pin No. for the Paper End signal output.

Assign the pin No. for the Paper/Ribbon End signal output if you have installed the RFID module.

[Ribbon End]

[RFID Tag Error] (For RFID models)

Assign the pin No. for the Ribbon End signal output.

Assign the pin No. for the RFID Tag Error signal output if you have installed the RFID module.

[Print Done]

Assign the pin No. for the Print Done signal output.

[Qty]

[Offline]

[Qty] is shown if [MODE1] is selected in the [EXT 9PIN] menu.

[Offline] is shown if [MODE2] is selected in the [EXT 9PIN] menu.

Assign the pin No. for the Qty/Offline signal output.

[Ribbon Near End]

Assign the pin No. for the Ribbon Near End signal output.

[Dispenser]

Assign the pin No. for the Dispenser signal output.

[Label Near End]

Assign the pin No. for the Label Near End signal output.



- You cannot set any outputs using the same pin number. If you attempt to set the same number, "Invalid Value" will be shown in red and you cannot save the settings.
-

[EXT 9PIN]

Set the function of the EXT 9PIN output.

[EXT Mode]

Set the mode of the Print End signal.

[EXT I/O Re-print]

Set the reprint function that uses the external terminal.

[Print Start Signal]

Enable or disable the Print Start signal.

[RFID] Settings

Set the RFID.

Appears only for the RFID models.

The setting items are as follows:

[General]

The general setting items for RFID are as follows:

[Antenna Pitch] / [Antenna Position]

Follow the Inlay Configuration Guide to select an RFID antenna to use. For details, access the following URL:

<https://www.sato-global.com/rfid/guide.html>

To use inlays that are not in the Inlay Configuration Guide, contact your SATO sales representative or reseller.

[Write Power]

Set radio power level used to write information to inlays according to the Inlay Configuration Guide. For details, access the following URL:

<https://www.sato-global.com/rfid/guide.html>

To use inlays that are not in the Inlay Configuration Guide, contact your SATO sales representative or reseller.

Appears only if the module is UHF.

[Read Power]

Set radio power level used to read information from inlays according to the Inlay Configuration Guide. For details, access the following URL:

<https://www.sato-global.com/rfid/guide.html>

To use inlays that are not in the Inlay Configuration Guide, contact your SATO sales representative or reseller.

Appears only if the module is UHF.

[Tag Offset]

Set the position at which to start writing data to the inlay. Data is written to an inlay on each tag at the point where the inlay passes over the printer's RFID antenna, which is at the distance, from the print start position, specified in this setting.

This setting will be used when inlays are not compatible with the printer's antenna positions. For details, access the following URL:

<https://www.sato-global.com/rfid/guide.html>

To use inlays that are not in the Inlay Configuration Guide, contact your SATO sales representative or reseller.

[Reader Model]

Shows the RFID module model.

[Reader Version]

Shows the RFID module firmware version.

[PLD Version]

Shows the RFID module PLD version.

[Retry Mode]

Set the mode at the time of the RFID error outbreak.

[Retries]

Set the number of times the retry/release operations as set in [Retry Mode] are repeated before printing stops and the RFID error screen opens, when an RFID error occurs.

[Mark bad tags]

Set whether to enable error printing when an RFID tag error occurs.

[RFID Undetected Warning]

To prevent wasting RFID tags, set whether to stop printing and show an RFID undetected warning error if there is no RFID command in the print job.

[Log RFID Data]

Enable or disable the log function that records information about the written RFID data.

The log data can record up to 100 inlays of information. When the log file reaches its maximum size, the new log data overwrites the older log data.

All the log data will be lost if the printer is powered off.



- UID data is recorded if the module is HF.
-

[Data To Record]

Set the data to record the log when [Log RFID Data] is enabled.

Appears only if the module is UHF.

[Output Error Mode]

Set the signal type for RFID errors.

[Pulse Length]

Set the length of RFID error pulse.

Appears only if you have selected [Pulse] in the [Output Error Mode] menu.

[Tag Offset]

Set the offset value and the writing operation for when data is written to an inlay.

The setting items are as follows:

[Tag Offset]

Set the position at which to start writing data to the inlay. Data is written to an inlay on each tag at the point where the inlay passes over the printer's RFID antenna, which is at the distance, from the print start position, specified in this setting.

This setting will be used when inlays are not compatible with the printer's antenna positions. For details, access the following URL:

<https://www.sato-global.com/rfid/guide.html>

To use inlays that are not in the Inlay Configuration Guide, contact your SATO sales representative or reseller.

[Encoding Action]

Set the printer's operations when writing data to an inlay in the position specified in [Tag Offset].

Appears when [Tag Offset] is set to something other than 0 mm (0").

[Filter Function]

Set the filter function according to the RSSI (Received Signal Strength Indication). If the RSSI value that is read while printing an RFID tag is lower than the specified threshold value, an RFID tag error occurs. An error message is printed on the inlay/RFID tag that caused the error.

Appears only if the module is UHF.

The setting items are as follows:

[RSSI Filter]

Enable or disable the RSSI filter function.

[Threshold Value]

Set the threshold of the RSSI filter.

Appears only if you enabled [RSSI Filter].

[Counters]

Shows the RFID counter.

RFID writing operations by the following commands are counted.

- RFID write: EPC code write <IP0> command and RFID write <RK> command
- Tag data print: UID/EPC/IDm print <TU> command

However, writing that is not accompanied by printing and media feeding is not counted.

The setting items are as follows:

[Life]

Shows the number of RFID successes, failures, and total attempts.

The items are as follows:

[Count Success]

Shows the total number of successful times you have written to an RFID tag.

[Count Failure]

Shows the total number of RFID write errors.

[Count Total]

Shows the total number of times you have written to an RFID tag.

This is the total number including [Count Success] and [Count Failure].

[User]

Shows the number of RFID write successes, failures, and total attempts after the RFID counter is cleared.

The items are as follows:

[Count Success]

Shows the total number of successful times you have written to an RFID tag after the RFID counter is cleared.

[Count Failure]

Shows the total number of RFID write errors after the RFID counter is cleared.

[Count Total]

Shows the total number of times you have written to an RFID tag after the RFID counter is cleared.

This is the total number including [Count Success] and [Count Failure].

[Paper]

Set the print reference position in the vertical direction for RFID tags.

The setting item is as follows:

[Types]

Set the paper type of RFID tags.

[Starting Point]

Set the print reference position in the vertical direction for RFID tags.

Set the print reference position by using '+' to move in the feed direction and '-' to move opposite to the feed direction.

[Battery] Menu

The following settings are available in the [Battery] menu:

[Eco Charge]

Enable or disable the Eco Charge function.

The Eco Charge function is designed to extend the battery life by keeping the after-charged volume of the battery a little lower than the fully charged volume, thus delaying the degree of deterioration.



- When using the printer with the optional cradle kit, it is recommended to enable the Eco Charge function.
-

[Full Charge Power Off]

Set up the printer's power-off function after charging is complete.

While the printer is paused in the Online/Offline screen, the printer powers off 3 seconds after it completes charging.

[Applications] Menu

The following settings are available in the [Applications] menu:

[General] Settings

The general setting items are as follows:

[Protocol]

Set the printer language.

[SBPL] Settings

SBPL (SATO Barcode Printer Language) is used for the common commands that control SATO barcode label printers.

To use SBPL as a printer command, set the following items:

[Show Error]

Enable or disable the command error indication when incorrect command or parameter is detected in the print data.

[Standard Code]

Set the protocol code.

[Orientation]

Select the layout for printing the label.

[Font Settings]

Set the font.

The setting items are as follows:

[Zero Slash]

Set whether to print the number zero (0) with or without a slash (/).

This setting is applied to the following bitmap fonts:

U, S, M, WB, WL, XU, XS, XM, XL, X20, X21, X22, X23, X24

[Kanji]

Set the kanji code to be used.

The setting items are as follows:

[Kanji Set]

Set the kanji code to be used.

[Character Code]

Set the character code to be used.

[Kanji Style]

Set the font to be used.

[Proportional]

Set whether to print each character using a proportional pitch or fixed pitch.

[Code Page]

Select the code page to be used from the list.

[€]

Set the European currency symbol to the ASCII code.

The setting range is from 0 to FF (hexadecimal).

[Compatible]

Set the compatible mode for SBPL.

The setting items are as follows:

[M-8400 Compatibility]

Enable or disable the M-8400 printer compatibility function.

[CODE128(C) Zero Fill]

Set whether to allow odd digits and print the barcode with zero-filling at the end of the data when start code C is used in CODE128.

If [M-8400 Compatibility] is set to [Enabled], this setting is automatically enabled and does not appear.

[Kanji Command]

Set the printer behavior when the received data includes the Kanji command ESC+K5, ESC+K6 or ESC+K7.

[Call Font/Logo]

Set how to process the character code specified in the Retail font & logo command (ESC+RF).

[PDF417 ECC Level fixed]

Set whether to print the PDF417 code with the security level specified by the PDF417 printing command.

[QTY Timing]

Set the compatibility in timing to update QTY.

[Character pitch]

Set the valid range in specifying a pitch between characters (ESC+P).

[SZPL] Settings

To use SZPL as a printer command, set the following items:

[Label]

Set the print position.

The setting items are as follows:

[Shift]

Set the shift offset position of the label.

[Top]

Set the top offset position of the label.

[Label Rotation]

Select the page orientation for label printing.

The label size set in the printer is used as a reference of rotation.

[Caret]

Set the caret (^) code.



- You need to set different values for each code (caret, delimiter, tilde).
-

[Delimiter]

Set the delimiter (,) code.



- You need to set different values for each code (caret, delimiter, tilde).
-

[Tilde]

Set the tilde (~) code.



- You need to set different values for each code (caret, delimiter, tilde).
-

[Clock Format]

Set the date format.

[Default Font]

If you are using the multilingual fonts in the printer, select a default font from the list.

[SIPL] Settings

To use SIPL as a printer command, set the following items:

[Font Settings]

Set the font.

The setting items are as follows:

[Code Page]

Select the code page to be used from the list.

[New Font Encoding]

Enable or disable new font encoding.



- Contact your SATO sales representative for more information about the new font.
-

[c20 Proportional Pitch]/[Proportional]

Set whether to print each character using a proportional pitch or fixed pitch.

[Zero Slash]

Set whether to print the number zero (0) with or without a slash (/).

[STCL] Settings

To use STCL as a printer command, set the following items:

[Command Head]

Set the command head.

The setting items are as follows:

[Control Code]

Set the control code.

[1st Byte Code]

Set the first byte code.

You can change the code only if you have selected [Custom] in the [Control Code] menu.



- Each code must be set to different values.
-

[2nd Byte Code]

Set the second byte code.

You can change the code only if you have selected [Custom] in the [Control Code] menu.



- Each code must be set to different values.
-

[3rd Byte Code]

Set the third byte code.

You can change the code only if you have selected [Custom] in the [Control Code] menu.



- Each code must be set to different values.
-

[Font Settings]

Set the font.

The setting items are as follows:

[Zero Slash]

Set whether to print the number zero (0) with or without a slash (/).

[€]

Set the European currency symbol to the ASCII code.

The setting range is from 0 to FF (hexadecimal).

[Half-width Symbol]

Set whether to print symbols with half-width characters.

[Rotation]

Set the page orientation for label printing.

[Ignore Paper Size Command]

Set whether to ignore a paper size command in the print data.

[300DPI Head Compatibility]

When you are using a printer with 305 dpi resolution, enable or disable 300 dpi head compatibility.

When it is enabled, print data for 300 dpi resolution is printed at 305 dpi.

[SDPL] Settings

To use SDPL as a printer command, set the following items:



- The items below the [Prioritize] menu can be set only if you have selected [Settings] in the [Prioritize] menu.
-

[Control Code]

Set the control code.

The setting items are as follows:

[Code Type]

Set the type of the control code.

[SOH]

Set the SOH code.

You can change the code only if you have selected [Custom] in the [Code Type] menu.

The setting range is from 0 to FF (hexadecimal).



- Each code must be set to different values.
-

[STX]

Set the STX code.

You can change the code only if you have selected [Custom] in the [Code Type] menu.

The setting range is from 0 to FF (hexadecimal).



- Each code must be set to different values.
-

[CR]

Set the CR code.

You can change the code only if you have selected [Custom] in the [Code Type] menu.

The setting range is from 0 to FF (hexadecimal).



- Each code must be set to different values.
-

[CNTBY]

Set the CNTBY code.

You can change the code only if you have selected [Custom] in the [Code Type] menu.

The setting range is from 0 to FF (hexadecimal).



- Each code must be set to different values.
-

[Compatible Mode]

Set the compatible mode for SDPL.

The setting items are as follows:

[TTF]

Enable or disable TrueType font compatible mode.

[Graphics]

Set whether to allow the registration of graphic data even if a line feed code is omitted.

[Compression]

Set whether to support graphic data created using unique compression formats.

[Prioritize]

Select the settings to be prioritized for each setting item of the SDPL command. You can set whether to prioritize settings via the printer or commands.

When you select [Settings] for an item, the setting specified in the [SDPL] menu of the printer will be used.

The setting items are as follows:

[Format Attribute]

Set whether to prioritize the settings via the printer or commands for the format attribute setting.

[Pause Mode]

Set whether to prioritize the settings via the printer or commands for the pause mode setting.

[1 Byte Codepage]

Set whether to prioritize the settings via the printer or commands for the 1-byte code page setting.

[SDPL Measure Unit]

Set whether to prioritize the settings via the printer or commands for the measurement unit setting.

[Scalable Font Style]

Set whether to prioritize the settings via the printer or commands for the scalable font style settings.

[Sensor Type]

Set whether to prioritize the settings via the printer or commands for the sensor type setting.

[Feedback Character]

Set whether to prioritize the settings via the printer or commands for the feedback character setting.

[SOH Commands]

Set whether to prioritize the settings via the printer or commands for the SOH command settings.

[Module Selection]

Set whether to prioritize the settings via the printer or commands for the module selection setting.

[Scalable Font Style]

Set the style of the scalable fonts.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [Scalable Font Style] menu.

The setting items are as follows:

[Bold]

Set whether to use bold for the scalable fonts.

[Italic]

Set whether to use italics for the scalable fonts.

[SOH Commands]

Set the SOH commands.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [SOH Commands] menu.

The setting items are as follows:

[All Commands]

Enable or disable all SOH commands. Or, make it possible to perform settings for each command.

[SOH-B Command]

Enable or disable the SOH-B command.

You can change this setting only if you have selected [Custom] in the [All Commands] menu.

[SOH-C Command]

Enable or disable the SOH-C command.

You can change this setting only if you have selected [Custom] in the [All Commands] menu.

[Others]

Enable or disable the SOH commands, except for the SOH-B and SOH-C commands.

You can change this setting only if you have selected [Custom] in the [All Commands] menu.

[Label Rotation]

Set the page orientation for label printing.

The label size set in the printer is used as a reference for rotation.

[SOP Emulation]

Set the SOP emulation.

[Right-to-Left print]

Set the Right-to-Left printing function.

[Receive Timeout]

Set the time period that the printer stays in the mode to receive binary data.

When the specified time period has passed, the printer's binary reception mode ends, and the SDPL commands are scanned.

[Blank Item Feed]

Set whether to feed a label with nothing printed on it when the printer receives label formatting commands that do not generate any printable image.

[Format Attribute]

Set the format attribute.

You can change this setting if you have selected [Settings] in the [Prioritize] > [Format Attribute] menu.

[Pause Mode]

Enable or disable the pause mode.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [Pause Mode] menu.

[1 Byte Codepage]

Select the code page to be used for 1-byte characters from the list.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [1 Byte Codepage] menu.

[SDPL Measure Unit]

Set the measurement unit.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [SDPL Measure Unit] menu.

[Feedback Character]

Enable or disable the <STX>a command.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [Feedback Character] menu.

[Module Selection]

Select a location to save the settings of the printer.

You can change this setting only if you have selected [Settings] in the [Prioritize] > [Module Selection] menu.

[SEPL] Settings

To use SEPL as a printer command, set the following items:

[Home Reference]

Adjust the print reference position by specifying the offset position in the horizontal and vertical directions.

The setting items are as follows:

[Horz. Offset]

Specify the offset position in the horizontal direction.

[Vert. Offset]

Specify the offset position in the vertical direction.

[Label Rotation]

Set the page orientation for label printing.

The label size set in the printer is used as a reference of rotation.

[Memory Device]

Select the printer's memory space in which to save forms, graphics and fonts.

[Sim. 300 DPI Head]

When you are using the printer with 305 dpi resolution, enable or disable 300 dpi simulation mode.

[AEP]

Enable or disable AEP (Application Enabled Printing) mode.

AEP mode allows you to use the printer as a standalone printer by running applications within the printer.

[Standalone] Menu

The following settings are available in the [Standalone] menu:

[AEP]

Enable or disable AEP (Application Enabled Printing) mode.

AEP mode allows you to use the printer as a standalone printer by running applications within the printer.

[System] Menu

The following settings are available in the [System] menu:

[General] Settings

The general setting items are as follows:

[LCD Brightness]

Set the brightness of the screen.



- The printer has a built-in energy-saving function, which will decrease the brightness of the screen when you have not operated the printer for a period.
-

[Start on AC]

Set whether to power on/off the printer by powering on/off the main power source.



- Do not repeatedly power on/off the printer.
 - If you power the main power source off and then on again quickly, the printer may not be powered on because it is still in the powering off process. In such a case, press the Power button to power on the printer.
 - Do not power off the printer during operation, such as when printing or updating. Doing so could cause a malfunction of the printer.
 - Do not disconnect the power cord until the powering off process is completed on the printer.
 - An incorrect power on/off operation may damage the printer settings. In such a case, the printer settings are reset to their initial values. It is always recommended to use the power button to allow proper shutdown of the printer and ensure changes made to menu settings are saved appropriately.
-

[Show Total Count]

Enable or disable the indication of the total print count.

If this is enabled, the total print count appears on both the Online and Offline screens of the printer.

The number in the brackets to the right of [QTY] on the Online and Offline screens is the total print count.



- Shows the total print count from the time the printer is turned on until it is off.
When you power off the printer, the count is reset to [0].
-

[Swipe Down Menu]

Enable or disable the swipe down menu of the printer.

If enabled, you can open the swipe down menu by swiping down from the top of the screen.

[Theme]

Set the theme of the display.

[Show Large Icons]

Set the large icon display.

When [Enabled] is set, the large icon appears.

[Regional] Settings

Set the display language, calendar (option), and unit of the printer.

The setting items are as follows:

[Messages]

Set the display language of the LCD.

Select the display language from the list.

[Unit]

Set the unit of length for indication.

[Time]

Set the time.

You can set the time only if you have installed the optional RTC kit and the NTP function is disabled.

[Date]

Set the date.

You can set the date only if you have installed the optional RTC kit and the NTP function is disabled.

[Display Language Icon]

Set whether to show the [Language] icon on the [Settings] menu of the printer.

[Notifications] Settings

Set the function to notify when to clean and replace parts.

The setting items are as follows:

[Clean Printhead]

Notify when the print head needs to be cleaned.

The setting items are as follows:

[Clean Printhead]

Enable or disable the notification function about when the print head needs to be cleaned.

[Cleaning Interval]

Set the notification interval about when the print head needs to be cleaned.

You can change the setting only if you enabled the [Clean Printhead] menu.

The printer shows the print distance as a setting value.

[Clean Counter]

Shows the current print distance.

[Change Printhead]

Notify when the print head needs to be replaced.

The setting items are as follows:

[Change Printhead]

Enable or disable the notification function about when the print head needs to be replaced.

[Printhead Interval]

Set the notification interval about when the print head needs to be replaced.

You can change the setting only if you enabled the [Change Printhead] menu.

The printer shows the print distance as a setting value.

[Printhead Count]

Shows the current print distance.

[Change Cutter]

Notify when the cutter unit needs to be replaced.

The setting items are as follows:

[Change Cutter]

Enable or disable the notification function about when the cutter unit needs to be replaced.

[Cutter Life]

Set the notification interval about when the cutter unit needs to be replaced.

You can change the setting only if you enabled the [Change Cutter] menu.

The printer shows the cutter count as the setting value.

[Cutter Count]

Shows the current number of cuts by the cutter.

[Change Platen]

Notify when the platen roller needs to be replaced.

The setting items are as follows:

[Change Platen]

Enable or disable the notification function about when the platen roller needs to be replaced.

[Platen Interval]

Set the notification interval about when the platen roller needs to be replaced.

You can change the setting only if you enabled the [Change Platen] menu.

The printer shows the fed distance as the setting value.

[Platen Count]

Shows the current distance the platen roller has fed.

[Sound] Settings

Set the buzzer sounds and operating sounds of the printer.

The setting items are as follows:

[Error Sound]

Set the buzzer volume for the error sound.

[Power Off Sound]

Set the buzzer volume when powering off the printer.

[Volume]

Set the volume.

[Key Sound] / [Touch/Key Sound]

Set the type of sounds when the touch panel or buttons are operated.

[Energy Saving] Settings

The setting items are as follows:

[AC (Without Battery)]

Set the Energy Saving function when using the AC power supply.

[Battery-Powered]

Set the Energy Saving function when using the optional battery.

[Sleep Timeout]

Set the period before the printer enters sleep mode.



- The sleep function is disabled if you set it to 0.
-

[Auto Power Off]

Set the period before the printer powers off automatically when no operation is performed for a certain period of time.



- The Auto Power Off function is disabled if you set it to 0.
-

[Password] Settings

The following password settings are only applied to the operation of the physical printer.

The setting items are as follows:

[Password Enable]

Enable or disable the password setting.

If you have enabled the password input, you must enter the password set in the [Password] menu before the Settings menu will open.

[Password Required After]

Set the period of time until a password is required to enter the Settings mode again after once logging in.

If you set it to 0, a password is required every time you enter the Settings mode or you select a Settings menu item.

[Install Security]

Enable or disable the password input for installing the pkg file to the printer.

If you have enabled the password input, the printer requires you to enter the password set in the [Password] menu before you can download the package file.

[NFC Security]

Set whether to show the confirmation message or enable the password input before settings are written to the printer from an Android device with the NFC interface.

To use the NFC Security function, the settings must be written from the Android device while the printer is powered off. The confirmation message or password input screen is shown when the printer is powered on.

[Compatible] Settings

Set the compatible mode.

The setting items are as follows:

[SBPL]

Set the compatible mode for SBPL.

The setting items are as follows:

[CODE128(C) Zero Fill]

Set whether to allow odd digits and print the barcode with zero-filling when start code C is used in CODE128.

[Kanji Command]

Set the printer behavior when the received data includes the Kanji command <K5>, <K6>, or <K7>.

[Call Font/Logo]

Set how to process the character code specified in recall font & logo <RF> command.

[OCR Font]

Set whether to print old OCR-B font characters.

[Jornal Font]

Set whether to use X21 font for journal printing.

[Character pitch]

Set whether the parameter specified by the character pitch <P> command is enabled until the next specification is made.

[Volatilize Parameters]

Set whether to return the setting values specified by the following commands to their current values when the printer is powered off.

- Print mode <PM>
- Print speed <CS>
- Print darkness <#E>
- Base reference point <A3> (without (+/-) sign)
- Sensor type <IG>
- Print method <PH>
- Paper specification <YE>

[Chinese character]

Set whether to allow the use of the print Chinese command.

[Human Readable Overwrite]

When you are printing the human readable information for barcodes over a graphic, set whether to not leave a white background for the human readable information and just print over the graphic.

[Obsolete Command Error]

Set whether to finish processing a command without issuing a command error if the printer receives a command it does not support.

[Media Specification]

Set the media specifications.

The timing at which operation stops after the printer detects the paper end changes depending on the media specifications.

[Option Wait Time Command]

Set whether to apply parameters specified by option waiting time <TW> command for eject cut time in cut & print mode and partial cutter mode.

[BT Command Matrix2of5]

Set the type of barcode to register when Matrix2of5 is specified by the barcode ratio registration <BT> command.

On this printer, Matrix2of5 is registered regardless of whether this setting is enabled/disabled.

[X20 Font Compatible]

Set whether to make it possible to select proportional pitch for X20 fonts. This setting also allows you to switch compatibility with old models when a proportional pitch is selected for XU fonts.

[Partial Copy]

Set whether the sequential numbering is reflected to the copy destination and printed when the sequential number <F> command is included in the copy area of the partial copy <WD> command.

[Printable Area]

Enable or disable the compatible mode in relation to the printable area.

[Network]

Set the compatible mode for LAN.

The setting items are as follows:

[Socket Cancel]

Set whether to cancel any other connection requests when the printer has already been connected by the socket.

[USB]

Set the compatible mode for USB.

The setting items are as follows:

[Device ID]

Set whether to return the device ID for the old printer.

[RS-232C]

Set the compatible mode for RS-232C.

This appears only if the optional RS-232C kit is installed.

The setting items are as follows:

[ENQ Reply]

Set the status returned for STATUS3 when a receive buffer full error occurs.

[Tools] Menu

The following items are available in the [Tools] menu:

[HEX-Dump]

Save the hex dump print data or dump data from the receive buffer to the USB memory.

The setting item is as follows:

[Hex Dump Mode]

Enable or disable the Hex Dump mode.

If you enable [Hex Dump Mode], the printer prints the received data and at the same time creates a file of the received data inside "hexdump/".

If you return the setting to disabled, you can check the file on the screen.

[Barcode Checker]

Set the barcode check function using a barcode checker.

By connecting a barcode checker to the printer, you can check the barcodes after printing.

The setting items are as follows:

[Test]

Set up the barcode checker.

The item is as follows:

[Interface]

Set the RS-232C interface usage.



Available only if you have connected the barcode checker.

[Settings]

Set the barcode check function.

The items are as follows:

[Mode]

Select the check mode or disable the barcode check function.

[Start Position]

Adjust the position at which the barcode check starts (position of the barcode checker at which reading starts).

[VOID Print]

Set whether to print error marks on the media when a barcode reading error or barcode comparison error occurs.

[Host Notification]

Set whether to return the barcode check results to the host from which the print data is sent.



- Available only if you have connected the barcode checker.
 - This function cannot be used in the following conditions:
 - When the print mode is tear-off mode
 - When you are using RFID models
 - When the printer is in AEP mode
 - Use the optional barcode checker stand kit to mount the barcode checker to the printer. For details, refer to the Barcode Checker Stand Kit Installation Manual that came with the barcode checker stand kit.
-

[Logging Function]

Save the log data.

The setting item is as follows:

[Enabled]

Enable or disable the logging function.

[AutoClone Setting]

The auto-clone function automatically saves the printer's settings and installed data, to the USB memory, whenever the settings are changed. Insert this USB memory into the intended printer to recover the saved settings and data.

Available only for CT4-LX/CT4-LX-HC/HC4-LX series printers.

Use the USB connector (Type A) inside the printer to execute this function (to save the settings and data). Use the USB connector (Type A) on the back of the printer to recover the saved settings and data.



- We recommend a USB memory with a capacity of 4 GB or more.
 - The .pkg file that is created using this function cannot be copied to another USB memory and used.
-

The setting item is as follows:

[Enable]

Enable or disable the auto-clone function.

This can only be set when a USB memory, which has been formatted by using the [Format USB drive] menu is installed to the USB connector (Type A) inside the printer.

[Information] Menu

The following items are available in the [Information] menu:

[Build Version]

Shows the printer's version and other information.

[Kernel Version]

Shows the kernel version.

[Name]

Shows the name of the build version.

[Date]

Shows the build date.

[Print Module]

Shows information related to the print module in the printer.

The items are as follows:

[Boot]

Shows the Boot firmware information.

[Name]

Shows the Boot firmware version.

[Release Date]

Shows the Boot firmware release date.

[Checksum]

Shows the Boot firmware checksum.

[Main]

Shows the Main firmware information.

[Name]

Shows the Main firmware version.

[Release Date]

Shows the Main firmware release date.

[Checksum]

Shows the Main firmware checksum.

[Sensor Module]

Shows information related to the sensor module in the printer.

The items are as follows:

[Boot]

Shows the Boot firmware information.

[Name]

Shows the Boot firmware version.

[Release Date]

Shows the Boot firmware release date.

[Checksum]

Shows the Boot firmware checksum.

[Main]

Shows the Main firmware information.

[Name]

Shows the Main firmware version.

[Release Date]

Shows the Main firmware release date.

[Checksum]

Shows the Main firmware checksum.

[FPGA Version]

Shows the FPGA version of the printer.

[Name]

Shows the FPGA version.

[Counters]

Shows information about the printer's counter.



- Only SATO authorized service personnel are permitted to clear the counter.
-

The items are as follows:

[Head]

Shows information about the counter for the printer's head.

The items are as follows:

[Life]

Shows the current print distance.

[Head 1]/[Head 2]/[Head 3]

[Head 1] shows the current print distance. When you replace the print head, the value of [Head 2] appears in [Head 3] and the value of [Head 1] appears in [Head 2]. [Head 1] will start to count from 0 again.

[Cutter]

Shows the current number of cuts.

[LAN]

Shows the address of the LAN interface.

The items are as follows:

[LAN IPv4 Address]

Shows the IPv4 address of the LAN.

[LAN IPv6 Address]

Shows the IPv6 address of the LAN.

[LAN MAC]

Shows the MAC address of the LAN.

[Wi-Fi]

Shows the address of the wireless LAN interface.

This information is shown only when the optional wireless LAN/Bluetooth kit is installed.

The items are as follows:

[Wi-Fi IPv4 Address]

Shows the IPv4 address of the wireless LAN.

[Wi-Fi IPv6 Address]

Shows the IPv6 address of the wireless LAN.

[Wi-Fi MAC]

Shows the MAC address of the wireless LAN.

[Wi-Fi Versions]

Shows the version of the wireless LAN.

This information is shown only when the optional wireless LAN/Bluetooth kit is installed.

[Firmware]

Shows the firmware version.

[Bluetooth]

Shows the information of the Bluetooth connection.

This information is shown only when the optional wireless LAN/Bluetooth kit is installed.

The items are as follows:

[Name]

Shows the name of the Bluetooth.

[BD Address]

Shows the BD address of the Bluetooth.

[LAN IPv4 Address]

Shows the IPv4 address of the LAN.

[LAN IPv6 Address]

Shows the IPv6 address of the LAN.

[LAN MAC]

Shows the MAC address of the LAN.

[Bluetooth] Menu

Set the Bluetooth connection.

The following items are available in the [Bluetooth] menu:

[Enable]

Enable or disable the functions for Bluetooth.

[Name]

Set the device name for the printer.

You can enter 1 to 53 characters. Alphabets (capital and small letters), numbers and symbols can be used.

[PIN Code]

Set the PIN code.

You can enter 4 to 16 characters for the PIN code. Alphabets (capital and small letters), numbers and symbols can be used.

[BD Address]

Shows the BD address of the printer. (You cannot change this address.)

[Firm Version]

Shows the firmware version of the Bluetooth. (You cannot change this value.)

[iOS Reconnect]

Disable the iOS reconnect function or set to the Manual mode.

[Authentication]

Set the authentication level.

[ISI]

Set the ISI communication parameter.

The setting range is 0, or from 18 to 4096.

Set to a value that is more than the ISW communication parameter setting value.

[ISW]

Set the ISW communication parameter.

The setting range is 0, or from 18 to 4096.

The setting range varies depending on the ISI communication parameter setting value.

Set to a value that is less than the ISI communication parameter setting value.

[PSI]

Set the PSI communication parameter.

The setting range is from 18 to 4096.

Set to a value that is more than the PSW communication parameter setting value.

[PSW]

Set the PSW communication parameter.

The setting range is from 18 to 4096.

The setting range varies depending on the PSI communication parameter setting value.

Set to a value that is less than the PSI communication parameter setting value.

[CRC Mode]

Enable or disable the CRC check function.

[Flow Control]

Set the communication protocol.

[Wi-Fi] Menu

The following items are available in the [Wi-Fi] menu:

[Wi-Fi Setting]

Set the wireless LAN.

Appears only when the [Wi-Fi] > [Enable] setting is enabled.

The setting items are as follows:

[IPv4] (Wi-Fi)

Configure IPv4 for Wi-Fi.



- You cannot change [IP Address], [Netmask], [Gateway], or [DNS] if [Mode] is [DHCP].
-

The setting items are as follows:

[Mode]

Select the IP address assignment method.

[IP Address]

Set and check the IP address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the IP address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Netmask]

Set and check the subnet mask address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the subnet mask address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the subnet mask address.

[Gateway]

Set and check the default gateway address.

If you have selected [DHCP] in the [Mode] menu, the screen shows the gateway address you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS Primary Address]/[DNS Secondary Address]

Set and check the DNS server addresses.

If you have selected [DHCP] in the [Mode] menu, the screen shows the DNS server addresses you received from the DHCP server.

If you have selected [Static] in the [Mode] menu, set the addresses of the DNS server.

[IPv6] (Wi-Fi)

Configure IPv6 for Wi-Fi.



- You cannot change [IP Address], [Prefix Length], [Gateway], or [DNS] if [Mode] is anything other than [Static].
-

The setting items are as follows:

[Mode]

Select the IP address assignment method or disable IPv6.

[IP Address]

Set and check the IP address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the IP address you acquired.

If you have selected [Static] in the [Mode] menu, set the IP address.

[Prefix Length]

If you have selected [Static] in the [Mode] menu, set the prefix.

[Gateway]

Set and check the default gateway address.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the gateway address you acquired.

If you have selected [Static] in the [Mode] menu, set the default gateway address.

[DNS]

Set and check the address of the primary DNS server.

If you have selected [Auto] or [DHCP] in the [Mode] menu, the screen shows the DNS server address you acquired.

If you have selected [Static] in the [Mode] menu, set the address of the DNS server.

[Ports]

Set the TCP/IP port number.



- Please refer to each printer's operator manual for more details of the setting and function.
-

The setting items are as follows:

[Port1]

Set the port number for Port1.

[Port2]

Set the port number for Port2.

[Port3]

Set the port number for Port3.

[Flow Control]

Set the communication protocol.

[TCP Connection Queue]

Set whether to allow queuing for connection when multiple hosts or applications are sending connection requests to the printer.

[Legacy Status for Port 9100]

Set whether to change the return status format of Port3 to compatible mode.

Does not appear if you have selected [None] in the [Flow Control] menu.

[BCC]

Enable or disable the BCC check function.

Available only if you have selected [Status5] in the [Flow Control] menu.

[Wi-Fi Direct]

Set the Wi-Fi Direct function.

[Device Name]

Manually enter the device name for the printer.

[Wi-Fi Connection Setting]

Set the wireless LAN settings.

The setting items are as follows:

[SSID]

Set the SSID. Manually enter the name of the network you want to connect.

You can enter a maximum of 32 characters. Alphabets (capital and small letters), numbers and symbols can be used.

[Hidden SSID]

Set the hidden SSID (stealth function).

Available only if you have selected [Infrastructure] in the [Mode] menu.

[Mode]

Set the communication method of the wireless LAN.

[Channel]

Set the communication channel.

[Channel] can be set only if you have selected [Ad-hoc] in the [Mode] menu.

The number of channels you can set varies depending on the region of the printer.

[Security]

Set the security method of the network. Set the security methods so that the printer, host and network devices match.

[WEP Conf.]

Set the WEP key.

Available only if you have selected [WEP] in the [Security] menu.

The setting items are as follows:

[Authentication]

Set the WEP authentication method.

[Key Index]

Set the key index.

Set the key index (WEP key) according to the access point of the wireless LAN you connect.

[Key #1] to [Key #4]

Set the WEP key #1 - key #4.

You can enter alphabet (capital and small letters) and numbers.

[WPA Conf.]

Set the WPA authentication.

Appears only if you have selected [WPA2+WPA] or [WPA2] in the [Security] menu.

The setting items are as follows:

[EAP Conf.]

Set the functions for EAP.

Appears only if you have selected items other than [Personal (PSK)] in the [WPA Authentication] menu or if you have selected [Dynamic WEP] in the [Security] menu.

The setting items are as follows:

[EAP Mode]

Set the EAP Mode (authentication mode).

[Inner Method]

Set the inner method.

Appears only if you have selected [FAST], [PEAP], or [TTLS] in the [EAP Mode] menu.

[Username]

Set the user name.

You can enter 0 to 63 characters. Alphabets, numbers and symbols can be used.

[Password]

Set the password.

You can enter 0 to 32 characters. Alphabets, numbers and symbols can be used.

[Anon. Outer ID]

Set the external ID.

Appears only if you have selected [FAST], [PEAP], or [TTLS] in the [EAP Mode] menu.

You can enter 0 to 63 characters. Alphabets, numbers and symbols can be used.

[Verify Server Cert.]

Enable or disable server certification validation.

Appears only if you have selected items other than [LEAP] in the [EAP Mode] menu.

[Private Key P/W]

Set the Private Key password.

Available only if you have selected [TLS] in the [EAP Mode] menu or [Inner Method] menu.

You can enter 0 to 64 characters. Alphabets, numbers and symbols can be used.

[PAC Auto Provisioning]

Enable or disable PAC auto provisioning.

Available only if you have selected [FAST] in the [EAP Mode] menu.

[PAC P/W]

Set the PAC password.

Appears only if you have selected [FAST] in the [EAP Mode] menu and if you disabled [PAC Auto Provisioning].

You can enter 0 to 64 characters. Alphabets, numbers and symbols can be used.

[WPA Authentication]

Set the WPA authentication method.

[PSK]

Set the PSK shared key.

Available only if you have selected [Personal (PSK)] in the [WPA Authentication] menu.

You can enter 8 to 63 ASCII characters or 64 hexadecimal digits. Alphabets, numbers and symbols can be used.

[Enable]

Enable or disable the Wi-Fi connection.

Contact Us

Access the following site to send us your questions or comments.



<https://www.sato-global.com/contact/>

SATO