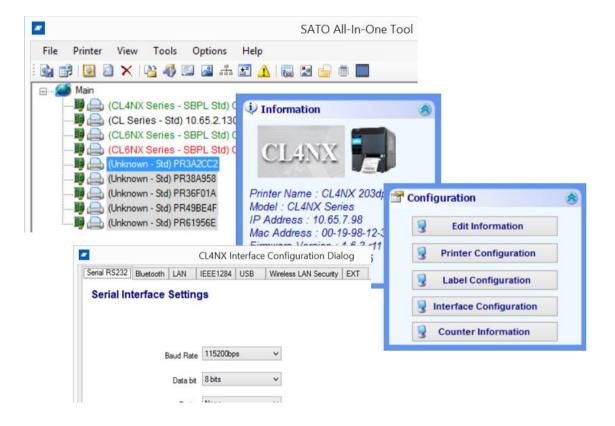


User Manual

SATO All-In-One Tool



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The SATO All-In-One Tool for printer remote control was developed to achieve the following goals:

- To simplify the SATO printer configuration and operation processes for end-users
- To allow remote configuration and control of SATO printers that are compatible with this application
- To consolidate as many of the separate software printer utilities as possible into a integrated application

1.1. Supported Models of SATO Printers

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

- CG2/CG4 Series
- CL4NX/CL4NX-J Series
- CL6NX/CL6NX-J Series
- CL4e/CL6e Series
- LC4e Series
- CT4i Series
- CW408
- CZ4 Series
- D5xx Series
- DR308e
- GL4e Series
- GT4e Series
- GY4 Series
- GZ4 Series
- HR2 Series
- LM4 Series
- LT408
- M-10e
- M84SE Series
- M84 Pro Series
- MB2i / MB4i
- PW208/PW208m Series
- PW208NX/PW208mNX Series
- S84 Series
- S84-ex/S86-ex
- TG3 Series
- TH2

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

System Requirements



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

- A computer with at least a 450MHz Pentium[®] CPU with 128 MB of RAM, running Windows 2000, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows 8/8.1, Windows 10, Windows Server 2012 or Windows Server 2016 platforms.
- Installed .NET Framework 2.0 (or higher version)
- At least one supported model of SATO printer that can connect to the computer running this application

Standard SBPL commands are sent to SATO printers to update configuration settings or to retrieve data. The data will then be presented in a meaningful and graphical interface for the software user.

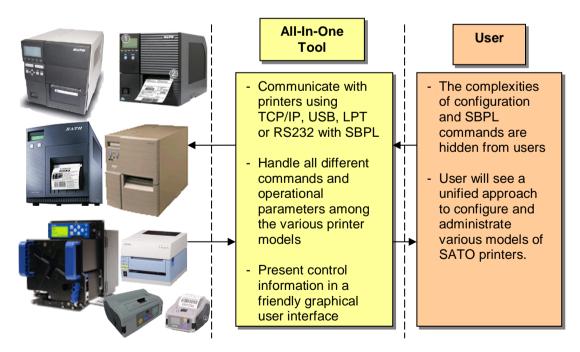


Figure 1 System Overview



Currently, SATO All-In-One Tool does not require a database system. The only scenario where persistent data is needed is during the exporting of application profile into XML files. Please Note that Windows Vista and above OS user must be administrator in order All-In-One Tool to perform well. Things like saving Preference Settings, Firmware download etc might not function well if user does not have admin rights.

Setup

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



Figure 1 Language selection



Figure 2 Setup screen

7

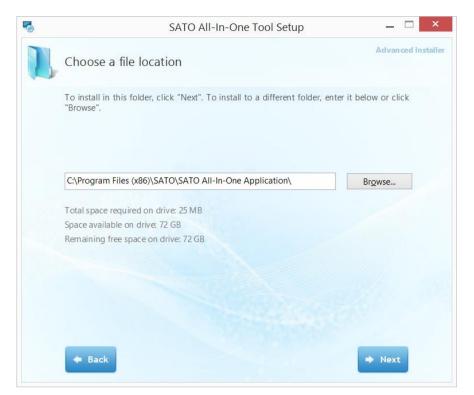


Figure 3 Installation folder



Figure 4 License Agreement

In order to have access to the "Install" button to proceed with the installation, the user must agree with the License Agreement by checking the "I accept the terms of this agreement".



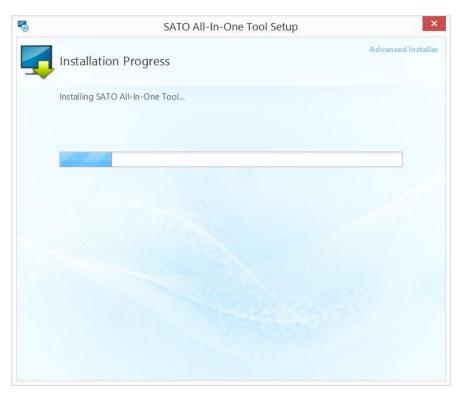


Figure 5 Installation in progress

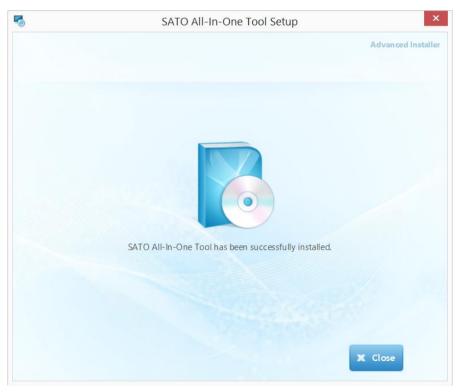


Figure 6 Installation Complete

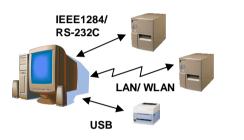
The program can then be launched from the Start Button->All Programs->SATO->SATO All-In-One Tool program group.

Using the All-In-One Tool

4

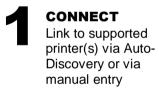
4.1. Overview

The SATO All-In-One Tool works on the following paradigm:











ORGANIZE

Use the graphical treeview structure to organize connected printers into groups using custom folders & display names.



CONTROL Configure/control any SATO printer regardless of its location in the world.

4.2. Summarized Features List

	Fasture																											
	Feature	CL4/6xxe/LC4xxe	LM4xxe	GT4xxe	GL4xxe	M-10e	MB2/4xxi	M84xxSE	CT4xxi	S84xx	DR308e	CG2/4	LT408	D500/12	TH2	TG3	CL6 Plus	GY4	GZ4	CL4NX/CL4NX-J	S84-ex/S86-ex	C-L6NX/CL6NX-J	PW208/PW208m	XNm802W9/XN802W9	HR2	CW408	CZ4xx	M84Prox
1	Auto-Discovery	0	0	0	0	0	Х	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Saving and loading Printer Configuration	0	0	0	0	0	0	0	0	0	0	0	0	0	х	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Displaying and setting of Printer Configuration	0	0	0	0	0	0	0	0	0	0	0	0	0	х	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Firmware Download	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Concurrent download firmware to multiple printers	0	0	0	0	0	х	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	х	0	0
6	Send and query SBPL command	0	0	0	0	0	0	0	0	0	0	0	0	0	х	0	0	0	0	0	0	0	0	0	0	0	0	0
7	True Type Font Download (Expanded Memory/Cartridge)	0	x	0	0	Х	х	х	Х	0	х	х	Х	х	х	0	0	х	х	0	0	0	х	х	x	х	х	0
8	Graphics Download	0	0	0	0	0	Х	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Supported Interface																											
9	LAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Х	Х	0	0	0	0
10	RS232c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Х	Х	0	Х	0	0
11	IEEE1284 Parallel Port	0	0	0	0	0	х	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	х	х	х	х	0	0
12	USB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Test Print	0	0	0	0	0	0	0	0	0	0	0	0	0	Х	0	0	0	0	0	0	0	0	0	0	0	0	0
14	LAN Interface Card Configuration	0	0	0	0	0	х	0	0	0	0	0	0	0	х	х	0	0	0	0	0	0	х	х	0	0	0	0
15	Format Download to Keypad	х	х	х	х	х	х	х	Х	х	0	0	х	х	х	х	х	Х	Х	х	х	х	х	х	х	Х	х	х
16	Bitmap Font Download (Internal Memory)	0	0	0	х	0	0	0	0	0	0	0	0	0	х	0	0	0	х	х	0	х	x	х	0	0	0	0
17	TH2 Package Download	х	х	х	х	Х	х	Х	Х	х	х	Х	Х	х	0	х	х	Х	Х	Х	х	Х	х	х	х	х	х	х

Note: For troubleshooting purposes, SATO 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 c:\ directory and the file name is *SATO_All-in-one.log*.

The default directory can be changed from the dialog box in Option->Preferences. Refer to Section *4.24 Application Configuration* for details.

When reporting bugs or problems, copy the log file to the systems support team. The default directory can be changed from the dialog box in Option->Preferences. Refer to Section *4.24 Application Configuration* for details.

4.3. Multi-Lingual Support

	SATO All-In-One Tool	
文件 打印机 视图 工具 选择 帮助		
💁 🚅 📴 🖻 🗙 隆 🖓 🖾 📾 🏦 🖪 🛕 🔜	a 🔓 📠 🔳	
Main (CL6NX-J Series - SBPL Std) CL6NX-J 203dg (CG2 Series - Std) CG2 Series (Not Connect (CT Series - Std) CT Series (Online state : W: (CL4NX Series - SBPL Std) CL4NX 203dpi (N (CL4NX Series - SBPL Std) CL4NX 203dpi - (CL4NX Series - SBPL Std) CL4NX 203dpi - (CL4NX Series - SBPL Std) CL4NX 203dpi -	ed) ait to receive) Not	◆ 信息 CL4NX 打印机名称: CL4
■ □	Dfmi	オ) 中和石和 : CL4 型号 : CL4NX Sen IP 地址 : 10.65.7.9 Mac 地址 : 00-19-1 固件版本 : 1.6.3-r Serial Number : 4L
- ■ (CL4NX Series - SBPL Std) CL4NX 203dpi - (- ■ (CL4NX Series - SBPL Std) CL4NX 203dpi - (- ■ (CL4NX Series - SBPL Std) CL4NX 203dpi - 1 - ■ (CL4NX Series - SBPL Std) CL4NX 305dpi - 1	6 ((☑ Auto resolve model for uknown printers 7 ((☑ Do not show a confirmation dialog when closing the application	■ 配置 ● 編集
	1 (《 8 (1) 状态显示器刷新间隔时间 [500 - 50000 電秒] 2000	夏 打印 夏 标签
- IIII (CL4NX Series - SBPL Std) CL4NX 609dpi (N - IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Not 记录文件目录 c.¥¥SATO_All-in-one log 应用 (下回系统再起动时才有效) 20 日二百二 1	😨 接口 💡 打印头
CL6NX-J Series - SBPL Std) CL6NX-J_203d GL4NX Series - SBPL Std) CL4NX 203dpi - GL4NX Series - SBPL Std) CL4NX 203dpi - GL4NX Series - SBPL Std) CL4NX 203dpi -	9 (《 10 关闭 取消	☆ 最近常用的工具 ♣ <u>宇体下載</u>
	12 (Not Connected)	Image: Imag

Figure 7 Multi-Lingua Support

This version of All-In-One Tool supports English and Traditional/Simplified Chinese. User can change the language setting at the Options->Preferences.

4.4. 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)
- Serial Communication (RS232c)
- Parallel Port (IEEE 1284)
- USB (Plug & Play)

For printers using SILEX Network Interface card (such as GT and CL), it is necessary to use the SILEX firmware which supports bi-directional communications on port 9100, i.e., version A1.2.3 and above. * For SAI-SILEX firmware, it is necessary to add the printer with Port no.: 1024.

[•] For SAI-SILEX firmware, it is necessary to add the printer with Port no.: 1024.

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

- 1. Using the Auto-Discovery mode
- 2. Manually entering an IP Address, or Parallel Port/Serial Comm 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 in the main panel's treeview as an icon.

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

For example, a printer driver which is actively connecting to the CT412i via the USB port with printer driver will cause connection problems to All-In-One Tool with this printer.

💩 SATO CT412i Properties 🛛 🔹 🔀
Stocks Language Barcode Fonts Command Fonts About General Sharing Ports Advanced Security Printer Settings SATO CT412i SATO CT412i Security Security Security Security
Print to the following port(s). Documents will print to the first free checked port.
Port Description Printer □ COM1: Serial Port □ COM2: Serial Port □ COM3: Serial Port □ COM4: Serial Port
Copy 1), SA If the second secon
Add Port Delete Port Configure Port Image: Enable bidirectional support Enable printer pooling
OK Cancel Apply Help

Figure 8 Active connection from printer driver

4.4.1. Adding a Printer via Auto-Discovery

The All-In-One Tool can automatically detect SATO printers connected via USB interface, the SILEX network interface card (CL and GT series), or the standard built-in LAN interface (new CT4xx*i* series, CG Series), or the GL Series Network Interface card.

Upon installation, the software automatically registers itself into the Windows Firewall Exception list. Thus, the firewall can continue to protect the computer without compromising the functionality of the Auto-Discovery feature.

General	Exceptions	Advanced		
progra to wor	ms and service	blocking incoming netwo es selected below. Addi ght increase your securi es:	ng exceptions allow	
Nan	ne		Group Policy	^
	lessenger		No	
	ficrosoft Mana	gement Console	No	
	1SRfidProvider	- CertificationTool.exe	No	
I I F	lemote Assista	nce	No	
I I F	lemote Deskto	P	No	
I F	lfidServices.ex	e	No	
🗹 S	AP Logon for '	Windows	No	
Z S	ATO All-In-On	B	No	
🛛 🗹 S	ATOnetConne	ect	No	
۷s	atoPrint.exe		No	
	ilev nort		No	~
Add	I P <u>r</u> ogram	Add Port	<u>E</u> dit	<u>D</u> elete
🗹 Dis	play a <u>n</u> otifica	tion when Windows Fire	wall blocks a progr	am
	are the risks of	allowing exceptions?		

Figure 9 Exception entry in FireWall

4.4.2. Adding a Printer via LAN, Parallel Port or Serial Comm settings

You can add a new printer to the system by specifying its IP Address, USB port, Parallel Port or Serial Comm settings such as network port, communication port and baud rate. User with USB to Serial can easily notify with USB2Serial text beside com port. USB to Parallel port is now supported and will listed under USB Port.

🛇 Add New Printer 🛛 🔀		
New Printer Information Printer Name GL408 Model GL Series	 Serial Comm. USB Port Parallel Port 	COM1 COM4 [USB2Serial]
Interface LAN/Wireless IP 192.168.0.1 Serial Comm. USB Port Parallel Port	USB Port	ATEN USB2LPT[201
OK Cancel		

Figure 10 Add New Printer

Note: GL printer with Standard Protocol is able to be added with this method. However, it might take a little longer.

4.5. Navigating the Treeview

After all target SATO printers have been successfully detected or registered into the application, they will appear in a Tree view as icons (See Figure 12 below) representing a **Node**. You can manage the nodes in this view (hereafter called the **treeview**) in various ways, as follows.

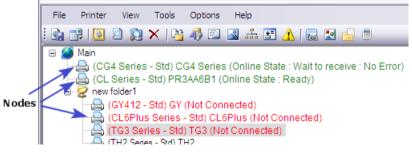


Figure 11 Treeview

4.5.1. Creating folders

By default, detected printers will populate the treeview as nodes at the root. However, just as with any standard treeview in Windows Explorer, you can also create your own folders in the root, and then drag-and-drop any registered printer to and from any folder or root area.

By creating folders, you can organize connected printers into groups meeting particular criteria such as "all GL printers on the Production Floor" or "All compact printers in the Packaging Dept". You can then control printers in that group more conveniently rather than individually select different printers when needed.

The only limitation is that your custom folders must contain a non-blank name, and the folder name cannot be "*root" or* "*main".* Also, within the same level, the same folder name cannot be repeated.

4.5.2. Renaming folders

The folder name and the "display" of the printer can be renamed on the treeview. Click on the folder name and wait for the text editing cursor to appear, then type the new name.

4.5.3. Relocating printers via Drag-and-Drop

A node icon can be moved in and out of the root area or folders easily. Just make sure the source and target locations are visible, then drag the icon and drop it in the target location.

4.6. Displaying Printer Firmware Information

When a printer node on the treeview is clicked, you will see basic information about the printer, as depicted below.

SATO All-In-One Tool	_ 🗆 🔼 ×
File Printer View Tools Options Help	
💁 📰 🔟 🖄 🗙 🖓 🖾 🖾 🚠 🖭 🛕 📾 🔛 🛑 🔲	
Main	Printer Name : CL4NX 203dpi - 2 Model : CL4NX Series IP Address : 10.65 7.98 Mac Address : 0.019-98-12-38-C4 Firmware Version : 1.6 3-r11 Serial Number : 4L031085
Image: Second	Configuration

Figure 12 Printer Information

4.7. Editing Printer Information

You are allowed to change the printer's Display Name and the Model, which are displayed next to the node icon.

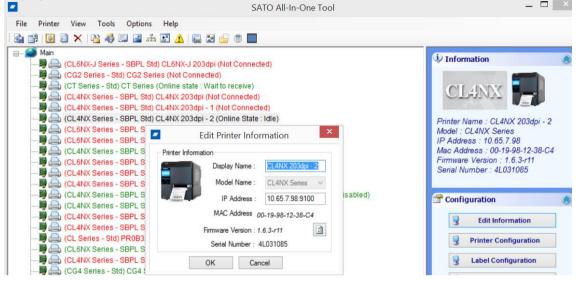


Figure 13 Edit Printer Information

Changing the Display Name/Model does not affect the printer. No command will actually be sent to the printer. The changes apply only to the treeview of the SATO All-In-One Tool, and are stored in memory or exported to XML files when you export profiles (See Section 4.11 Export/Import Profile).

4.8. Enquiring Printer Status

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

This feature is not available to printers connected via Parallel Port and RS-232. This is based on the assumption that local printers (non LAN) can be monitored locally rather than via remote.

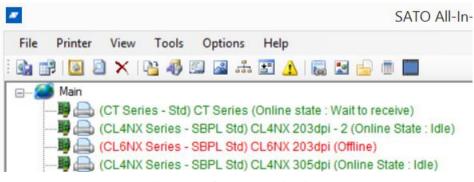


Figure 14 Status Monitoring

4.9. Interface Configuration

Interface Configuration feature is available for CT, MB, CG printers and e-series models that connected with LAN interface.

e 😥 new folder1	R360033 (Error : Head o	ipen)	(1) Information	
			GT4e	
	S Network Interfac	e Setting 🛛 🔀	Printer Name : PR360033	
	Mac Address	00-80-92-36-00-33	Model : GT Series IP Address : 10.25.6.112 Mac Address : 00-80-92-5	
	Use DHCP	USE RARP	Firmware Version : 13.00.	
	IP Address	10.25.6.112		
	Subnet Mask	255.255.0.0	Configuration	
	Default Gateway	10.25.1.238	Edit Informatio	on
	No Wi	reless Lan	Printer Configura	tion

Figure 15 Interface Configuration

Note: When the "Interface Configuration" window is open, the ENQ Status monitoring function of the printer will be stopped.

The following picture shows the Interface Configuration for MB printer:

🚳 MB Interface Configu	ation 📃 🗖 🔀
	RS232 IrDA Bluetooth WLAN Interface WLAN Security Setting Wireless LAN Interface Settings
MB4xxi mb44 (IP: 10.25.5.100)	(This function is only valid for MB printer with WLAN protocol) IP Address 192.168.0.1 Set
	Subnet Mask 255.255.255.0 Socket Port 1024
	Default Gateway 000.000.000 Socket Timeout 0600
	IP Address Setting 💿 Manual setting 🔿 DHCP
	Read (Read exclude Socket Port & Timeout) Set
Enable Multiple Selection Press hold the [Control] key for multiple selection	The printer goes into Sleep Mode after completing the settings. Restart the printer after it goes into Sleep Mode *Note: The displayed values are are the default setting, not the values from printer
	Close

Figure 16 MB-series Interface Configuration



This function supports concurrent setting to multiple MB printers. The following interface settings can be configured on this functionality:

- RS232 settings -
- IrDA settings -
- Bluetooth settings -_
 - Wireless LAN settings

4.10. Displaying Configuration Information

The displaying and updating of printer configuration information is split into 2 parts: Printer information and Label information. These can be viewed and updated by clicking the "Printer Configuration" and the "Label Configuration" button respectively.



4.10.1. Printer Configuration

SBPL commands will be sent to the printer to retrieve the printer configuration information. The screen will only display the system configuration Information such as print speed and darkness level.

Name	Value		Remark
Print Method	Thermal Transfer	~	Fixed
Print Resolution	8 dot/mm	~	Fixed
Printer Speed	4(inch/sec) 100(mm/sec)	*	
Print Motion	Tear off	×	Fixed
Cutter Mode Setting	Head Position	×	Fixed
Dispense Mode Setting	Cutter Position	V	Fixed
Sensor Type Setting	Gap sensor	×	Fixed
Print Darkness	A	~	
Darkness Range	Level 4	~	
Zero Slash	Enabled	~	
Kanji Code	JIS code	*	Color Street
Initial Feed	Disabled	~	A 14.
Proportional Pitch	Proportional pitch	*	1 1 1 1 1 1 1
Linerless Media	Cutter Position	V.	Fixed
Media Type		×	Not Applicable
Buzzer Setting	On	~	6 500
Auto Power Off			Not Applicable
Serial Interface Priority		~	Not Applicable

Figure 17 Printer System Configuration Information

Use the drop-down lists to make any necessary changes to the configuration. When the "Submit" button is pressed, the system captures your inputs and issues SBPL commands to change the settings in the printer.

4.10.2. Label Configuration

The remaining configuration data contains label configuration information. The unit of measurement will be changed from "dot" to "mm".

ame	Value	Remark
ertical Label Size	180	0~2500 mm
orizontal Label Size	104	0~104 mm
ertical Offset Value	0	0~99 mm -1~99 mm
orizontal Offset Value	0	0~99 mm -1~99 mm
abel Pitch Offset	0	0~12.375 mm -1~12.375 mm
ear Off	0	0~12.375 mm -1~12.375 mm
utter Offset	0	0~12.375 mm -1~12.375 mm
ispenser Offset	0	0~12.375 mm -1~12.375 mm
abels Gap Size	0	0~0 mm

Figure 18 Label Configuration

Use the drop-down lists to make any necessary changes to the configuration. When the "Submit" button is pressed, the system captures your inputs and issues SBPL commands to change the settings in the printer.

4.10.3. Counter Information Display

Some supported model can click on 'Print Head Information' button under Configuration to view the detail information for print head counters and statuses.

	Value	Remark	Model : CL4NX Series IP Address : 10.65.2.123
Name		Remark	Mac Address : 00:19:98:12:61
Head Status	Print Head OK		Firmware Version : 1.6.3-r11
Battery Status	Not Applicable		
Counter			Configuration
Name	Value	Remark	Configuration
Life Counter	302.6715 (m)		3 Edit Information
Head Counter1	302.6715 (m)		Printer Configuration
Head Counter2	0 (m)		Label Configuration
Head Counter3	0 (m)		Interface Configuration
Cutter Counter	773		3
Dispenser Counter			Counter Information
Battery Charge Cycle	Not Applicable		🔀 Recently Used Tools

Figure 19 Print Head Information Display

4.11. Export/Import Profile

The effort and time required to populate the application's treeview with the correct printers and folders, need not be repeated every time you start the All-In-One Tool. By saving the "profile" of already detected printers into a file (in XML format), the application will not normally need to auto-detect printers on the network again, unless you force the software to do so.

The profile can also be exported to other computers connected to the same printers, so that the same treeview information can be restored without delay.

The following information is captured in the XML profile file:

- Folder Information
- Name
- Tree Level
- Printer type
- Name
- Model
- DisplayName
- Firmware Version
- Folder Name
- Interface Type
- IP Address
- Mac Address - Port
- Baud rate
- Baud rate
- DataBits
- StopBit
- Stopbit - HandShake
- PortName

Click **File->Export** Profile or **File->Import Profile** to download or upload the printer configuration profiles.

4.11.1. Using External Profile

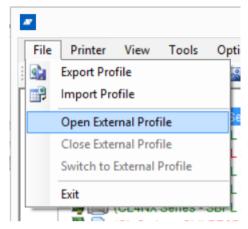


Figure 20 Open External Profile

By default, All-In-One Tool loads printer profile information stored in the application directory during start-up. However, user can choose to load the printer profile information stored in other directory.

User chooses an external printer profile by File->Open External Profile. The application title shows the name of the external profile, to indicate that the current printer profile used by the application.

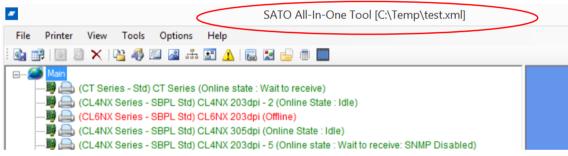


Figure 21 Using External Profile

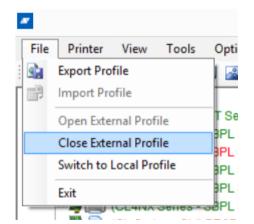


Figure 22 Closing and Switching Profile

Close External Profile: This is to close the external profile and loads again the internal application profile. The internal profile will be loaded during the next application start-up.

Switch to Local Profile: This is to switch to the local application profile but the external profile is still open. The external profile will be loaded during the next application start-up.

4.12. Graphics Conversion

This utility provides conversion functions from raster graphics files (*.BMP;*.GIF;*.JPG;*.PNG) into SBPL commands. Click **Tools->Graphic Conversion**.

		Graphics Conversion		>
Select Picture F	ile			
C:¥Users¥Pictur	res¥2P_set_under	_center-aligned[jpg		Open
Picture				
Ceasele		tivity for a Sustainab	le World	ł
Normal	Stratch	Center		
Normal	Stretch	Center		
SBPL Command	1	Center		000000000000000000000000000000000000000
SBPL Command +GH058012000 000000000000 0000000000000000000	i 000000000000000000000000000000000000			
SBPL Command +GH058012000 000000000000 000000000000 00000000	1 000000000000000000000000000000000000			00000000000000000000000000000000000000

Figure 23 Graphics Conversion

Click the **Open** button to browse for the desired graphics file. A preview of the file will be displayed. You can also edit the graphic by using the **Stretch** or **Center** button, or reset the changes using the **Normal** button.

The appropriate SBPL commands for printing the file will be displayed in the bottom-most window. Click **Save** to save the commands into a file, or click **Close** to end the conversion.

4.13. Loading Graphics

Click **Tools->Graphics Download**. This function allows you to upload and store the graphics into the memory of a printer. It supports the following graphics formats:

- BMP - JPG
- JPG - GIF
- PNG

The function supports the following types of uploading formats:

- 1) SATO Graphics (ESC+GR/GI command)
- 2) Bitmap Images (ESC+GT/GC command)
- 3) PCX Images (ESC+PI/PY command)
- 4) Logo in Internal Flash (FD command)

Memory Slot Graphic(s) to dowr	Internal Flash (CC1)	✓ Memory S	lot Information		
Graphics Operation Registor ID [1-99		Disabled	d v	Format Card	Print Card Status
Graphic Type	SATOGraphic [GI/GR Cor	mmand]	✓ File Size M	lax 104x400@8dot	t/mm, 156x600@12dot/
Open	Download	Delete	Delete ALL	Display	Test Print
S Image ID	Image File		Graphic Type	Dither Mod	de File Size(Byte)
50	C:¥Users¥gbs.yayoi.mura	i¥Pictures¥	SATOGraphic [GI/GF	R C	5577
UC					
50					
UC				Load List	Save List
Picture				Load List	Save List
				Load List	Save List
Picture					Save List
Picture					Save List

Figure 24 Graphics loading

4.13.1. Dithering Effect

For Bitmap and PCX files, the Dithering effect feature is available to allow downloading of graphics with color fading effects.

Printers				
1				
Registered Printer	10.65.2.123 (CL4NX Series	s - IP: 10.65.2.123)	~	
Memory Slot	Internal Flash (CC1)	Memory Slot Information		
Graphic(s) to downl	oad			
Graphics Operation				
Registor ID [1-999) 51 🖨 Dither Mode	Mode6 V	Format Card P	rint Card Status
Graphic Type E	BMP [GT/GC Command]	V Eile St	ze Max [99999 Bytes]	
Open	Download	Delete Delete Al	LL Display	Test Print
S Image ID	Image File	Graphic Type	Dither Mode	File Size(Byte)
50	- C:¥Users¥gbs.yayoi.murai¥P	ictures¥ BMP [GT/GC Co	mmand] Mode6	3603
			Load List	Save List
Picture				
Ceaseles	is Creativity f	or a Sustainat	sle World	
	1			

Figure 25 Dithering Effect

4.14. Font Downloading

Click Tools->Font Download.

Э	Font Download	
Γ	Direct	
	Printers	
	Registered estd (GT Series - Port: LPT1)	
	Memory Card Cartridge Memory	
	Font(s) to download	
	Downloaded Fonts	
	Add Download Remove Clear Display Test Print	
		Щ.
	Font Id Font Name Font File File Size(Byte) Characters Style Code	
	f Arial arial.ttf 367112 bytes All Default t Bell MT BELL.TTF 84840 bytes All Extended	
	Load List Save List]
	Close	

Figure 26 Font Download

Full set of True Type Font (TTF) can be downloaded to the extended memory or cartridge. Whereas only selected size font (bitmap font) can be downloaded to internal flash. The following shows the steps of downloading full set of TTF into **extended memory or cartridge**.

The Font information can be reused and applied onto another printer by using the "Load List" and the "Save List" functions.

4.14.1. Font Selection

Cal	and the stand many mining the stand	inload and click the 'Select' button.	
Na		File Name	110
B	Agency FB Bold	C:\WINDOWS\Fonts\AGENCYB.TTF	
	Agency FB Bold	C:\WINDOWS\Fonts\AGENCYB.TTF	-
B	Abaroni Bold	C:\WINDOWS\Fonts\ahronbd.ttf	
	Algerian	C:\WINDOWS\Fonts\ALGEB.TTF	
	Andalus	C:\WINDOWS\Fonts\andIso.ttf	
	Angsana New	C:\WINDOWS\Fonts\ANGSA.TTF	
B	Angsana New Bold	C:\WINDOWS\Fonts\ANGSAB.TTF	
I.	Angsana New Italic	C:\WINDOWS\Fonts\ANGSAI.TTF	
	AngsanaUPC	C:\WINDOWS\Fonts\ANGSAU.TTF	
-	ency FB	C:\WINDOWS\Fonts\ANGSAUB.TTF	~
Age [hi: Est	ency FB s is a test string imated file size :	. ABC abc 123 58920 bytes	~
Age Age This Est	ew ency FB s is a test string imated file size : ^{Code}	. ABC abc 123 58920 bytes	~
Age Age This Est	ency FB s is a test string imated file size :	ABC abc 123 58920 bytes Becall Parameter Setting The font will be recalled by ESC+F	iD<∞ command.
Age Age This Est	ew ency FB s is a test string imated file size : ^{Code}	ABC abc 123 58920 bytes hal character set ter set	
Age This Est	ew ency FB s is a test string imated file size : ^{Code}	ABC abc 123 58920 bytes hal character set ter set	

Figure 27 Font Selection

When the "Add Font" option is selected from the popup-menu (5), the above dialog box will be displayed to let you select the font to load.

- Without specifying international character set
 This option is for User TrueType Font load. The command will have a prefix ESC+RD<x>00, where x ranges from 'u' to 'z', to be specified by user.

 Standard international character set
- Standard international character set
 This option is for Code Page 850 character set. The command will have a prefix of ESC+RD<x>10, where x is specified by user according to the font style:
 - F FuturallBook
 - G CG Triumvirate Condensed
 - P CG Palacio
 - S CG Century Schoolbook
 - V Univers Medium

u,v,w,x,y,z User True Type Font

- Extension international character set

This option is for a font that contains an extension international character set such as Arabic and Thai. The command will have a prefix of ESC+RD<x>20, where x is specified by user according to the font style:

- V Univers Medium
- t CG Times
- T Angsana UPC

u,v,w,x,y,z User True Type Font



- Extension international character set

This option is for double-byte character sets such as Chinese, Korean and Japanese. The command will prefix with ESC+RD<x>00, where x is specified by user according to the font style:

- C Simplified Chinese (GB2312)
- C Traditional Chinese (Big5)
- K Korean (HYGungSo-Bold)

u,v,w,x,y,z User True Type Font

4.15. Bitmap Font (fixed size) Download

Bitmap font with specific size can be downloaded into the Internal Flash of the printer using FD command. The font downloaded with this method can be recalled using the ESC+RF command. Refer to the command specifications of each model for details.

Font Download					
Direct					
Printers					
Registered Printer M	10e (M-10e - Port:	LPT2)	*		\bigcirc
Memory Card Slot In	ernal Flash	~	Available/Total Siz	e:	(🖻)
Font(s) to download					
Downloaded Fonts					
Add	Download	Remove	Clear	Display	Test Print
Font Id Font I	Jame	Font File	File Size(Byte)	Characters	Style Code
	idine .	Torichie	1 110 0120(05/0)	Characters	30000000
					Close

Figure 28 Selecting Internal Flash for Bitmap Font Download

The Refresh button is to get updated storage information of the Internal Flash. Note that the storage space is used for both Bitmap Font and Graphics downloaded using ESC+FD command.

😂 Unicode	CharSe	lect																	
Font Stora		ation -		_					_										Overall Selection List
Fon	t ID 01			*	*		Font	Name						*Max	32 Ch	aracte	ers	1	Selections
Selected Fo	ont Aria	al [Re	gular,	Size 1	0]										Cha	ange F	ont	5	Basic Latin
	" #	\$	%	&	1	1	1	*	+		-		1	0	1	2	3		30 [0025-0042]
4 5	6 7		9	:	:	<	=	>	?	°	A	B	C	D	E	F	G	-	31 [005F-007D]
ΗI	JΚ	L	Μ	Ν	Ó	Ρ	Q	R	S	T	U	V	W	Х	Y	Ζ	[Total Characters
N]	^	1	а	b	С	d	е	f	g	h	i.	j	k	1	m	n	0	Unicode 007D	61
p q	r s	t	u	۷.	W	X	У	Z	{		}	~						Hebrew	
Press and h CurrentSel From 005F	ection		Key for	multip	1	nges o		acter	s sele	ction			ок			Canc	el	Arabic Latin Extended Additional General Punctuation Superscripts and Subscripts Currency Symbols Letterlike Symbols Number Forms Arrows Mathematical Operators Miscellaneous Technical Box Drawing Block Elements Geometric Shapes Miscellaneous Symbols Private Use Area Alphabetic Presentation Forms A Arabic Presentation Forms A Arabic Presentation Forms A Arabic Presentation Forms A Specials	

Figure 29 Download Fixed Size Bitmap font

Multiple range of character set is possible by selecting the character while holding down the [Ctrl] key. It is able to span across different Character Set.

4.16. Firmware Download

4.16.1. MB200i and MB400i

Select any MB200i and MB400i printer from the treeview, right click on it and choose Firmware Download from the popup menu. The firmware <u>must be loaded using RS232c interface.</u>

MB F	irmware Download	D
Printer	Information	
Printe	r Name: mb400i	-
Interfa	ace: Serial Port: COM1	1 63
Instruc	tions	
	ch the MB printer to Download Mode. Then connect it from H v1-0ff, DSW2-0ff, DSW3-0n, DSW-0ff (Screen)	ost with RS232 cable.
2. Sele	et the firmware directory	
3. Turr	n on the printer	
4. Pres	s the [Start Download] button.	
Cov 7. Clos	n the same DSW setting, perform a Factory Default Clear er Open, press and hold the Print and the Feed buttons, then p e the cover and press the Feed button to do a Factory Default are Directory	
From	E:\firmware\MB4x0i\27.01.00.01(Latest)	Browse
Files	0100_KNJ.BIN MB4xxi_27010001_10.bin MB4xxi_27010001_1.bin MB4xxi_27010001_2.bin MB4xxi_27010001_3.bin MB4xxi_27010001_4.bin MB4xxi_27010001_5.bin MB4xxi_27010001_6.bin MB4xxi_27010001_8.bin MB4xxi_27010001_8.bin	Total File Size
		2,502 KBytes
	Start Download Exit	2,502 KBytes

Figure 30 MB Firmware download

4.16.2. CL, CG, CT, LM, S84 and GT

Select Download Mode	X
Flash Download Mode	Boot Download Mode
	*For Advanced User only

Figure 31 Boot or Flash Download

User is to select the download mode: Boot or Flash Download.

4.16.2.1. Boot Download mode

Boot Firmware Dow	nload for printer S84 (Po	rt: LPT1)			
 Restart the prin ii) Use ENTER ke and printer will Use * * 'button ar Make sure the file If you are certain a 	be in Boot Download Mode n ter with [Function + ENTE y to select the correct INTE show 'PROGRAM DOWNLC id add firmware files into the list is correct order for down and ready click 'Download' of Entire process, restart the	R + DownArr RFACE slot (c)AD READY'. list. (NOTE: E lload. (filename Button.	heck behind printer for s po NOT add START.MO e with 'boot' follow by '1'	T file) 2' etc)	eries
board might be only Windows Print Spool firmware download.] Firmware File to Downloa Selected Firmware Files	e in Boot Firmware Downloa repair option. Download proc ler (Printer Driver). It is recor	ess might fail	if the target interface co	nnection is being used rvice for the duration o	f
File Name				File Size	
Download Progress					
Name	Progress	% St	atus		
<					>
	Down	load	Exit		

Figure 32 Boot Download mode

User is advised to take extra precautions when using this function. Instruction on the dialog must be strictly followed. This process is carried out with a mixture of human interventions of the printer and the application.

When the first firmware file is completed, user is to set the printer (by pressing button on the printer) to ensure it is on "Program Download" mode before the next file is sent from the application. Failure in doing so might cause unexpected exceptions and damages to the printer.



🛇 Boot Firmware Download for printer \$84 (Port: LPT1)
Download Instruction S84 Series 1. Set the printer to be in Boot Download Mode now. i) Restart the printer with [Function + ENTER + DownArrow + POWER ON]. ii) Use ENTER key to select the correct INTERFACE slot (check behind printer for slot name) and printer will show 'PROGRAM DOWNLOAD READY'. S84 Series 2. Use ' + ' button and add firmware files into the list. (NOTE: Do NOT add START.MOT file) S45 Series 3. Make sure the file list is correct order for download. (filename with 'boot' follow by '1' 2' etc.) S45 Series 4. If you are certain and ready click 'Download' Button. Cupon completion of Entire process, restart the Printer with Default Setting. [CANCEL + POWER ON] [Import Notice: Failure in Boot Firmware Download may cause damage to printer. In some models replacing PCB board might be only repair option. Download process might fail if the target interface connection is being used in Windows Print Spooler (Printer Driver). It is recommended to stop the Print Spooler Service for the duration of firmware download.]
Manually set the printer to Boot Download Mode Image: Current File to send : S84_17000003 3.RPU File Nan Current File to send : S84_17000003 3.RPU L¥Firmw Current File to send : S84_17000003 0.RPU L¥Firmw Click OK when Ready. L¥Firmw OK Cancel
Download Progress
Name Progress % Status S84_17000003_1.RPU 100% File sent, Received ACK S84_17000003_2.RPU 100% File sent, Received ACK S84_17000003_3.RPU 0%
Abort Exit

Figure 33 Executing next firmware file

🛇 Boot Firmware Download	for printer S84 (Port: LPT1)	
ii) Use ENTER key to so and printer will show 2. Use '+ ' button and add 3. Make sure the file list is 4. If you are certain and rea 5. Upon completion of Enti [Import Notice: Failure in B board might be only repair	oot Download Mode now. a [Function + ENTER + DownArrow + POWER ON]. lect the correct INTERFACE slot (check behind printer for slot name PROGRAM DOWNLOAD READY'. firmware files into the list. (NOTE: Do NOT add START.MOT file) correct order for download. (filename with 'boot' follow by '1' 2' etc) dy click 'Download' Button. e process, restart the Printer with Default Setting. [CANCEL + PON boot Firmware Download may cause damage to printer. In some mod option. Download process might fail if the target interface connection nter Driver). It is recommended to stop the Print Spooler Service for	WER ON J els replacing PCB nis being used in
Firmware File to Download Selected Firmware Files File Name L¥Firmware¥S8400¥Standaro L¥Firmware¥S8400¥Standaro L¥Firmware¥S8400¥Standaro	Firmware Download Successful	1160 KB File Size 5153 KB 2014 KB 1993 KB V
- Download Progress		
Name S84_17000003_1.RPU S84_17000003_2.RPU S84_17000003_3.RPU	Progress % Status 100% File sent, Received ACK	
<		>
	Abort	,

Figure 34 Download Complete



When the downloading processing is complete, user is to perform a default setting on the printer, manually.

Please note that the downloading process must be complete without interruptions of the connectivity to the printer.

* **Important**: for downloading of emulation firmware, it is important to refer to the respective firmware download manual for the correct procedure. Certain types of firmware require downloading of font file in order to get the firmware upgrade process working. The sequence of files to download also has to be strictly followed.

4.16.2.2. Flash Download Mode

This function supports firmware loading of GT/CG/CL/CT/LM/S84 with the following limitation:

- Older CL firmware that does not provide the Auto Download and the Restart command will not be supported

The download process is automatic, where the All-In-One Tool automatically sends the next firmware file and restarts the printer to perform factory clear + default setting after download completes.

It supports concurrent firmware loading to multiple printers (of the same model).

LAN Interface) that supp 1. Set the printer(s) to ONLINE 2. After firmware files are comple a factory clear and default set 3. The printer will be back to Of after the whole process.	mode. letely sent to printer, etting will be performed. NLINE mode automatically ch printer takes about 3-5 minutes.
Firmware File to Download Select File	
E:\firmware\CL\05.00.08.00(2120) Latest Browse	
05000800_1.RPU 05000800_2.RPU	Total File Size : 5,111 KBytes
Download Progress	
Start Do	ownload E <u>x</u> it
	Note: This function is o LAN Interface) that sup 1. Set the printer(s) to ONLINE 2. After firmware files are compli- a factory clear and default se 3. The printer will be back to O after the whole operation for eac * Boot firmware download is Ni Firmware File to Download Select File E:\firmware\CL\05.00.08.00(2 05000800_1.RPU 05000800_2.RPU Download Progress

Figure 35 Firmware Download for CL and GT

4.16.3.GL

This function currently supports firmware loading via a LAN interface. The FTP protocol is used to transfer the firmware file from host to printer.

The printer will automatically restart after the firmware loading is complete.

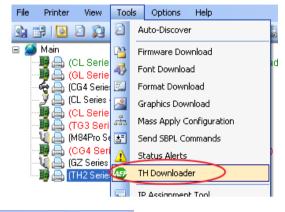
S Firmware Download		δ
GL Series Select Printer P_380159 (IP: 10.25.5.201) P_300008h (IP: 10.25.1.123)	Instructions Switch OFF the printer. Switch ON the printer whil "Enter" and "Cancel" Keys on the printer control p when "Firmware Download Mode" status messag Select the firmware file and press [Start Download Note: It is recommended to print the current configur before proceed with firmware download and restore i download. Please make sure that network connection between downloader PC is stable. It is important not to interrup	anel. Release the keys te appear on the LCD. (Screen) I) button below. ation of the Printer settings it back after firmware the printer and firmware
	once it is started. Firmware File to Download Select File E:\firmware\GL Printers\firmware\0524.PRG File Size : 5404 Kb Download Progress	Browse
	Name	% Progress
Click and hold the mouse for multiple selection	Start Download Ex	
Ready	10 20 10	

Figure 36 GL Firmware loading



4.16.4. TH2 Downloader

User can use TH Downloader Feature to download package (.pkg) file to multiple TH2 printers concurrently. Select Tools->TH Downloader menu to open TH2 Downloader dialog. Select .pkg file to download, select the printers to download and proceed with "Start Download" button.



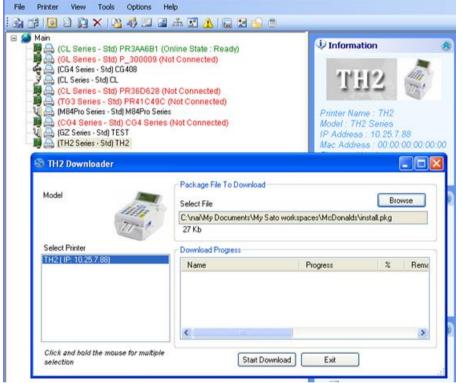


Figure 37 TH2 Downloader

4.17. Test Print feature

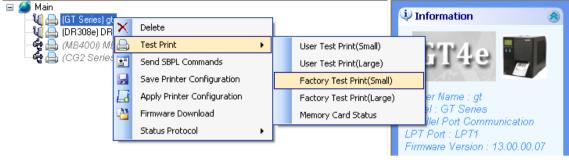


Figure 38 Test Print

This feature allows user to send built-in Test Print commands to any registered printer. The user can invoke the standard test print functions such as User Test Print or Factory Test Print, in either small or large label sizes.

4.18. Switching Interface Selection for CG Printer

After the CG printer is added to the application, the interface selection can be switched by right-click the printer to bring up the Context Menu, and choose the "Interface Mode".

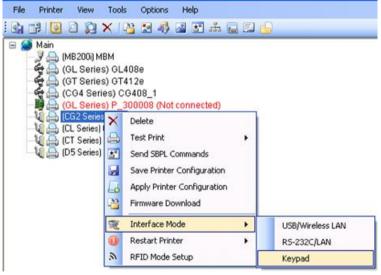


Figure 39 Switching Interface Selection for CG Printer

Note: User is required to **manually** restart the printer after switching the printer interface mode.

4.19. Restart Printer

Currently, this function is only available on CG and GT models.

File Printer View Tools Options Help

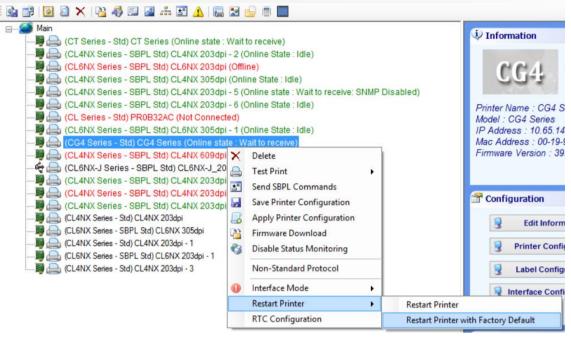


Figure 40 Restart Printer

For CG printer, if the printer is on LAN interface, it will be switched to USB mode after restarting the printer with Factory Default.

Note: Do not use this function if the printer has just changed the interface mode.

Question	
1	Please make sure the printer is on ONLINE mode. Are you sure you want to restart the printer now? Printer with LAN interface takes longer time (~30 second) to restart. Note: This function will not work if the Interface Mode of printer has just been swtiched.
	OK Cancel

Figure 41 Restart Printer Function will not work if the Interface Mode has changed

4.20. RFID Mode Setup (for NX, CG2 and CT4i)

Currently, this function is only available on CG2 and CT4i printer.

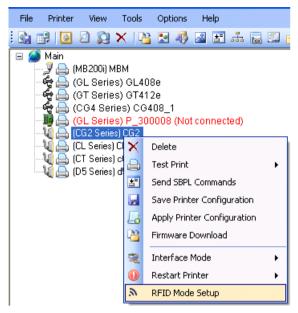


Figure 42 RFID Mode Setup

This function allows user to switch between normal mode, RFID mode and enhanced RFID mode. It is only applicable to printer with the optional RFID kit installed.

😂 RFID Mode Setu	SRFID Mode Setup								
RFID Mode									
Set to RFID Mode:	Enhanced RFID Mode 💌	Set							
Data Type:	1: ASCII 🛛 👻								
Retry Times:	3 💌								
Print Permission:	Stop Printing 🛛 👻								
Rebooting:	Stop to reboot 🛛 👻								

Figure 43 RFID Mode Setup Dialog

4.21. Sending Printer Command Strings

Right-click a printer icon from the treeview and choose Send SBPL Command from the popup menu. This function allows the user to send SBPL commands in both text format and file format. The user can also use it to retrieve printer response from the command.



	Comm	and	File	[3 b	yte]																9
D:¥d	loc¥CL4	08e c	omma	ands¥	firmw	areVer	rsionS	SB.txt										B	rowse][Send	d Query
Comn	nand T	ext																			(
Click	< to ente	ersp	ecial	char	acte	r: [STX		ETX		ESC		SOH		EOT		ENQ		NUL		
rSB																				5	Query
									10000		00/00/05									2	Clear
00			3 04	4 0!	5 06	6 07	08	09	QA	OB	00		DO	E O	-	ata					
01	53 42	2													r ⁹	B					
	Data																		_	_	(4
ceive Hex C	Data 00	01	02	03	04	05	06	07	08	09	0A	08		0D	OE	OF				~	Total by
		01	02	03 2E	04	I					0A 30	0B 33	0C 41	0D 20	0E 20	0F 20					
lex C	00	-	33 34	L.		30	2E	30	30	2E		1	1	1	20 20	1					Total by
lex C	00 02 20 20	31 30 20	33 34 20	2E 2E 20	30	30 30	2E 20	30 20	30 20	2E : 20 :	30	33	41	20	20	20					Total by 52
lex C	00 02 20	31 30	33 34	2E 2E	30 30	30 30	2E 20	30 20	30 20	2E : 20 :	30 20	33 20	41 20	20 20	20 20	20 20					Total by 52
Hex D	00 02 20 20	31 30 20 20	33 34 20	2E 2E 20	30 30	30 30	2E 20	30 20	30 20	2E : 20 :	30 20	33 20	41 20	20 20	20 20	20 20					Total by 52

The response of the printer is displayed in both ASCII and HEX formats.

Figure 44 The Send Printer command

4.22. Saving and Applying Printer Profiles

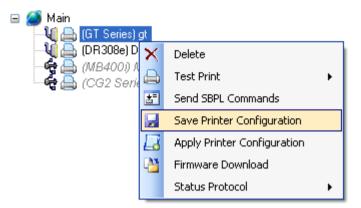


Figure 45 Saving and Applying a Printer Configuration

This feature is necessary for users who need to apply a set of tested settings to many printers at once.

For Saving Printer Configuration, an **SBPL** command will be executed to retrieve the Printer Configuration of the selected printer. The information is then saved into an XML file specified by the user.

For Applying Printer Configuration, the command will be executed after reading the XML file which is specified by the user.

An example of the XML file is shown here (Figure 30).

🗿 C: \mb4.xml - Microsoft Internet Explorer 📃 🔲 🔯
File Edit View Favorites Iools Help
🕝 Back 🔹 🕥 🔹 🛃 😭 🔎 Search 👷 Favorites 🎽
Address 😰 C:\mb4.xml 💉 🄁 Go
<pre><?xml version="1.0" encoding="utf-8" ?> - <model value="MB400i"></model></pre>
🛃 Done 🤰 🚽 🛃 My Computer

Figure 46 XML File

4.23. Mass Update of Printer Configuration

This feature is to apply a printer configuration to more than one printer (within the same model) concurrently. Click **Tools->Mass Apply Configuration**.

S Applying Printer Configur	ation	
Select Model Printer Model CL Series	~	
Select Configuration File to apply Configuration File		Browse
Select Printers	Printer List	
Select by All Printers Only Current Folder Current Folder + Subfolders Select All Select None	Printers cl lpt (Port: LPT1) cl (IP: 10.25.1.221)	Status
	Apply Close	

Figure 47 Mass Update of Printer Configuration

After selecting the printer model, the user can choose the printer configuration file (that was previously saved as explained in section 4.22). A list of printers of the selected models will be displayed. User can hold the Control Key to perform the multiple selections of the printer to apply the configuration.

4.24. Application Configuration

Some aspects of the application can be configured at Options->Preferences

Se Preferences
General ✓ Show splash screen on startup ✓ Save Treeview information when exit application ✓ Load last saved TreeView information when startup □ Enable Debug Logging of Application □ Discover unknown printers □ Auto resolve Model for unknown printers
Application Maximum number of printers for concurrent download: 25 Status Monitor refresh interval [500 - 50000 msec] 2000
Log file directory c:\SATO_All-in-one.log Change (this will take effect on the next application start up) Default Language English
Save Cancel

Figure 48 Preferences Dialog

This should be the only proper way to change the application configuration information. Configuration files should not be modified without advice from SATO technical staff. In case of application problem user should check "Enable Debug Logging of Application" feature and run the application to recreate issue and provide SATO_All-in-One.log file to customer support for help.

4.25. AutoDiscovery Setup

This function offers an advanced setup feature of AutoDiscovery which enables the application to discover printers in the different segment. (By default configuration, All-in-One Tool Auto-Discovery only searches printers on the same segment.) This function is intended to system administrator and/or network administrator who have knowledge of network since this function has the potential to cause malfunction of the software function.

To use this function, the router is required to support "directed broadcast" and should be properly configured. Then you go to "Options" - "Auto-Discovery Setup" - "Broadcast Address Setup" to specify broadcast IP range where you want All-in-One Tool to discover.

🖳 AutoDiscove	ery Setup							
Local Interface S	Selection							
Local Network Interface :								
Intel(R) 82566M	Intel(R) 82566MM Gigabit Network Connection - VirtualBox Bridged Network							
Name :	Name : Local Area Connection							
MAC Address :	00:1A:6B:36:79:13]						
IP Address :	10.25.7.77]						
Broadcast Addre		0.0.0.255						
Broadcast IP	Add							
255.255.255.25	Remove	Samples: Local Network Broadcast IP 255.255.255.255 (Default) Directed Broadcast IP 10.25.5.255 10.25.255.255 (Note: Router must be configured accordingly for Directed Broadcast to work)						
	Apply	Cancel						

Figure 49 AutoDiscovery Setup Dialog

4.26. Configuration of Network Interface Card

For SATO Printers equipped with Network Interface Card, the network properties (such as IP address and Wireless settings) can be configured by choosing the "Interface Configuration" function.

gt (Online state : Wait to receive : No error)	
M-10e	S Wireless LAN Setting
	SSID: SIRD 32 Chars[max.]
S Network Interface Setting	Channel: 11 💌
Mac Address 00-80-92-01-0C-42	Authentication: Open System Apply Close
Use DHCP USE RARP	WEP Config WEP 802.1X Config WPA Config
IP Address 10.25.1.59	⊙ Disable Key Size: 64bits 💌
Subnet Mask 255.255.255.0	() Key 1
Default Gateway 10.25.1.238	○ Key 2
Wireless Setting	○ Key 4
Apply Close	Hint on character counts: 10 Hex Chars (0-9, A-F)

Figure 50 Configuration of Network Interface Card

4.27. Check for Newer Version of Application

The application offers a feature to help user to check if a newer version of the application is available on the website.



Figure 51 Check for Update

If there is a newer version, the following dialog will be displayed.



Figure 52 Found newer version

If the user clicks the "Yes" button, an Internet Browser will be opened to download the latest the application package.

4.28. Changing Communication Protocol of GL4

The communication protocol of GL4 printer can be configured by right-clicking on the GL printer node, and then choose "Communication Protocol".

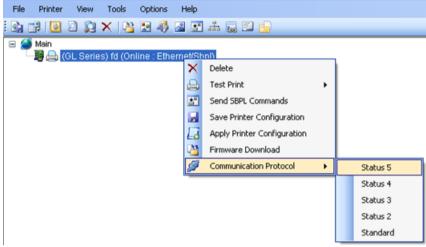


Figure 53 Changing Communication Protocol of GL4

The printer is not required to be restarted after this operation. This function is only applicable for GL4 printer with LAN/WLAN interface mode.

4.29. Send SBPL Print File to Printer Driver

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

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

Click Tools->Send SBPL to Printer Driver

😂 Send SBPI	. To Printer Driver 🛛 🔀
File	Browse
Printer Driver	SATO MM-10e (SATO M-10e)
Quantity	1
🔄 Interval	(mili-second)
will be sent to	nt Close allows sending SBPL command print file to SATO printer driver. The print file to the printer through the interface defined in the port setting of the driver operties setting in the printer driver will not be applicable in the printing

Figure 54 Send SBPL to Printer Driver

Only SATO printer drivers installed in the PC will be displayed.

If the print file is to be printed more than once, and delay is needed in between the print files, then check the Interval checkbox and input the time delay value (in millisecond, 1 second = 1000 millisecond).

4.30. IP Assignment

This function allows user to perform quick search of all Sato printers connected to network. Some network configurations such IP and SubnetMask settings are possible.

Click file menu->Tools->I	P Assignment Tool

S Printer Net	S Printer Network Setup								
Refresh	Assign IP	Reboot LAN	Restart	Add Setup					
Printer IP	Address	Mac Address	Info	Status					
PR36F0AD 10	.25.1.226 0	0:80:92:36:F0:AD	SATO PRINTER	Online state : Ready					
PR36F09B 10	0.25.1.228 0	0:80:92:36:F0:9B	SATO PRINTER	Online state : Ready					
PR3AA680 10	0.25.1.220 0	0:80:92:3A:A6:80	SATO PRINTER WL	Offline state					
PR3A2CC2 10	0.25.1.227 0	0:80:92:3A:2C:C2	SATO PRINTER	Online state : Ready					
PR36F01A 10	0.25.1.224 0	0:80:92:36:F0:1A	SATO PRINTER	Online state : Ready					
PR36F01A 10			SATO PRINTER	Online state : Ready					
		8:00:1F:C1:66:4D	AR-C262M	Online state : Ready					
PR3AA680 10			SATO PRINTER WL	Offline state					
PR3A2CC2 10			SATO PRINTER	Online state : Ready					
			SATO PRINTER	Online state : Ready					
			SATO PRINTER	Online state : Ready					
SCC1664D 10	0.25.1.222 0	8:00:1F:C1:66:4D	AR-C262M	Online state : Ready					
Ready									

Figure 55 IP Assignment Tool

S Network Interface	e Setting	×
MAC Address	00-80-92-3A-2C-C2	
DHCP	RARP	
IP Address	10.25.1.227	
Subnet Mask	255.255.0.0	
Default Gateway	10.25.1.238	
No Wire Apply	eless Lan	

Figure 56 Network Setting

4.31. Unit Convertor

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

Click file menu->Tools->Unit Conversion

8	UnitConvertor					×
	Conversion]
	Printer Resolution:	203dpi 8 d	lots/mm			~
	Converting From:	📀 dots	🔿 mm	🔘 cm	🔘 inch	🔘 hex
	Converting To:	🔘 dots	💿 mm	🔿 cm	🔘 inch	🔘 hex
	Converting Value:	203				
				Conve	rt	Clear
	~Result					
	Converted Value:	25.4				
		25.4				

Figure 57 Unit Convertor

4.32. Status Alert via Email

This function sends alert emails to the specified users if an error occurs on the monitored LAN/WLAN printers. Click file menu->Tools->Status Alert

By default Popup is enabled to disabled check the Disable Popup top right corner of Alert Configuration dialog box. Alert popup will appear top right corner of Display Screen.

S Email Alert Notification			
CG2 Series Select Printer CG2 Series - 1 (IP: 10.25.6.36) CG2 Series (IP: 10.25.5.101) GN412TT (IP: 10.25.5.137) PR36D628 (IP: 10.25.6.207) GLL (IP: 10.25.5.118)	Alerts Delivery Setup (Globa Email Log File SMTP Mail Server Server Address your_Email Port Number 25 Mail Server Authentic User Name username Password ••••••• Sender Email All-In-One@ Subject Email Alert	Enable Email Alert il_Server_address Use SSL ation ••	Enable Log File Disable Popup Email Recipients Add Edit Remove userA@company.com userB@company.com
	Alerts Notifications Items Se Offline Paper End Ribbon Low Buffer Overflow Error PrintHead Error Card Error Cutter Error	tting For Selected Printer ✓ Cover Open ✓ Ribbon End ✓ Buffer Low ✓ Battery Error ✓ Media Error ✓ RFID Tag Error Connection Error	 PrintHead Open Battery Low Rewind Full Sensor Error Cartridge Error RFID Protect Error Other Errors
Click and hold the mouse for multiple selection			Apply Cancel

Figure 58 Email Alert Notification

Note : User is to specify the address of out-going email server (SMTP Server). Depending on the email configuration, user might need to provide information of an authenticated email account under the "Mail Server Authentication" in order to make use of the server to send emails.



Figure 59 Alert Popup Dialog



S Email Alert Notification			
CG2 Series Select Printer CG2 Series - 1 (IP: 10.25.6.36) CG2 Series (IP: 10.25.5.101) GN412TT (IP: 10.25.5.137) PR36D628 (IP: 10.25.6.207) GLL (IP: 10.25.5.118)		al Setting) Enable Email Alert Ena Ind Settings\userA\Desktop\lo	
	Alerts Notifications Items Se	tting For Selected Printer]
	☑ Offline	🔽 Cover Open	🗹 PrintHead Open
	Paper End	🔽 Ribbon End	Battery Low
	💌 Ribbon Low	Buffer Low	🗹 Rewind Full
	Buffer Overflow Error	Battery Error	Sensor Error
	PrintHead Error	🔽 Media Error	Cartridge Error
	Card Error	🔽 RFID Tag Error	RFID Protect Error
	Cutter Error	Connection Error	☑ Other Errors
Click and hold the mouse for multiple selection			Apply Cancel

Figure 60 Log File

Detected errors can be logged in a log file by enabling the Log File option and provide a log filename.

4.33. Real Time Clock (RTC) Setting

This function is to send the RTC configuration command to the printer. It is only applicable on those printers with RTC module installed.

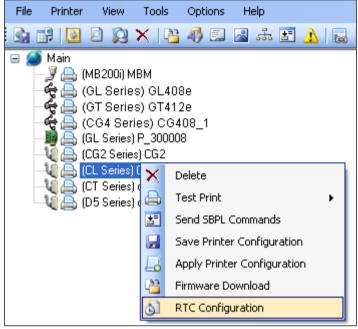


Figure 61 RTC Configuration

By default, the current date/time from the host system is displayed as the setting. Upon changing the value of the drop-down list, the value of the date/time is changed accordingly.

S RTC Configuration	×
Set RTC Configuration Year Month Day Hour Minute 10 3 29 17 30 Image: Set Research of the set set set set set set set set set se	
Date: 2010 / 3 / 29 Time: 17 : 30	
Refresh Submit	
*This function will only work when RTC module is installed in the printer.	

Figure 62 RTC Date/Time Setting

Click the "Refresh" button to get the updated date/time information from the host PC. Click the "Submit" button to send the RTC Setting command to the printer.

4.34. Format Download to Keypad

This function is to send the Format files to the keypad via the printer. It is only applicable to those printer models which support Keypad and download can be done only when keypad is attached to printer. Format Files are created with SATO Keypad Tool software. In Format Download Dialog click Open button and select SD Card folder \Data\FMT\FMT_xx*.dat file to download to printer.

😂 Format Dow	nload	
	ation Installed SATO Keypad Tool V Start Applic the label format to a destination location using SD Card O ved label format and download it via printer.	
- Format Informa	lion	
Format File:	FMT_0001.DAT	
File Destination	C:\Temp\SD\DATA\FMT\FMT_00\FMT_0001.DA*	Open
Format No.:	0001	Edit
Format Name:	Layout1	Edit
Format Size:	264	
File Size:	273	
Download Form Download No Status: No	w Clear All Formats Before Download	

Figure 63 Format Download to Keypad

4.35. Status Bar Icon, System Tray

All-In-One Tool provide Status Bar icon so that if needed user could run All-In-One Tool in background and minimize to System Tray. If Close to Tray setting is selected, Application will minimize to System Tray when user try to Close the windows without using File->Exit menu. Exit menu will actually exit the application from System Tray as well.

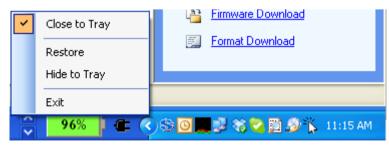


Figure 64 Status Bar Icon and menu

4.36. Shortcut Menu to SATO External Tools

All-In-One Tool provided shortcut menu for all tool installed under "SATO" Start Menu Program folder. This provides quick and easy access to other SATO software user might need directly from All-In-One Tool.

🖮 SATO	🕨 🤝 SATO All-In-One Application
🛅 Stardock	🕨 🛅 AEPWorks 🛛 🕨
🛅 Startup	🕨 🛅 PSim 🔹 🕨
🛅 StrokeIt	🕨 🛅 TH2 Utility 🔹 🕨
Symantec Endpoint Protection	Keypad Tool
🛅 TeraCopy	Keypad Tool Operation manual

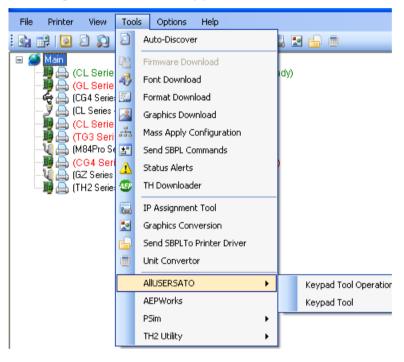


Figure 65 Other Sato Applications in Start Menu

Figure 66 Shortcut Menu to SATO External Tool via All In one

4.37. Non-Standard Protocol

All-In-One Tool use Standard Protocol for sending or querying data to printer. In Standard Protocol mode, commands are started with ESC (Hex 0x1B). SATO printer can be operated in Non-Standard mode where escape character where printable characters (eg. ^ character is used instead of ESC for command).

User can identify the current protocol by looking at the main treeview, before the printer name. By default printer were added as Standard protocol and user has to manually change to correct protocol mode by using context menu of printer in treeview.

User can change the Non-Standard code while switching to Non-Standard protocol.

	PR3AA6B1 (Online State : Ready	S Stan	daro	Protocol	
GL Series - Stu)	Delete	~ Proto			
🖳 🖉 🔔 (CL Series - Std) CL 🔔	Test Print 🔹 🕨				
	Send SBPL Commands	<u>No</u>).	Standard STX	Non-Standard
	Save Printer Configuration	2			
📲 📥 (CG4 Series - Sto 🗾	Apply Printer Configuration			ETX	1
VI 👝 (GZ Series - Std) TE 🔁 VI 👝 (TH2 Series - Std) T	Firmware Download	3		ESC	
	Non-Standard Protocol	4		ENQ	@
	Communication Declared	5		CAN	!
Non-Standard Protocol	X	6		NULL	~
		7		Offline	1
Do you want to change	the setting for non-standard protocol			Send	Close
<u>Y</u> es					

Figure 67 Standard and Non-Standard protocol

4.38. Software DIP Switch Setting

Some printer models such as GZ Series support setting DIP Switch setting via Software, SBPL command. This feature provides easy way to setup DIP Switch setting via AIO Tool. Please note that at present, reading of current DIP Switch setting is not supported. That means the setting displayed upon loading of dialog is just the default setting which may not be the same as the current setting of target printer.

Right click on printer name and select DIP Switch Setting from context menu to invoke DIP Switch Panel dialog.

💵 📇 (GZ Series - Std) T	FST	
📲 🦲 (TH2 Series - Std)	$\boldsymbol{\times}$	Delete
💐 📇 (CG2 Series - Std)	۲	Test Print 🕨
	27	Send SBPL Commands
		Save Printer Configuration
		Apply Printer Configuration
	2	Firmware Download
	15	Non-Standard Protocol
	۵	RTC Configuration
	••	DIP Switch Setting
	_	

Figure 68 DIP Switch Setting Context Menu

Use Mouse to click on DIP Switch as desired and click Set button to send SBPL command to printer. User could choose the command protocol to use either SBPL or SZPL using radio at the bottom of dialog. Preset commands listed some other useful preset command to sent to printer. Please note that last two Reboot command can only be sent when the printer is in Download Mode. The command will be ignored in Online mode. (Note: At present, only GZ printer support this feature.)

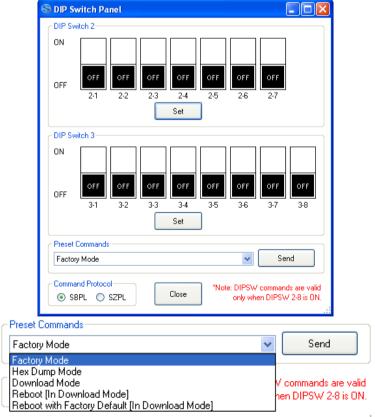


Figure 69 DIP Switch Panel

4.39. Printer Display Customization

The feature lets download boot splash/screen images and help videos being available in the Information->Help menu position of the CL4NX/CL4NX-J and CL6NX/CL6NX-J printers only. The minimum installed firmware version must be at least 1.4.1 or higher. The user can access the function by either choosing it from context or tool menu.

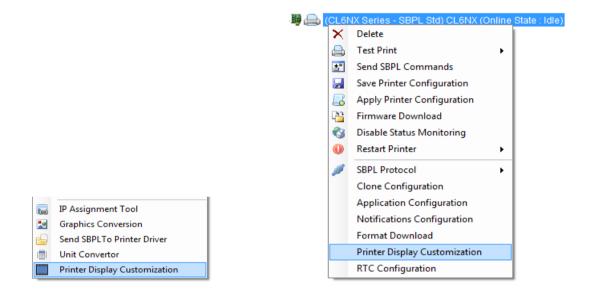


Figure 70 Accessing Printer Display Customization using Context and Tool Menus

Туре	File Description	Downloaded	Download New File				
nage	Printer startup image		Step 1 :				
nage	Printer shutdown image	Yes	Select file description of the new image or video you would like to download the table				
nage	Image after .pkg file installation (firmware, clone)	No					
nage	Image after playing help video	No	Step 2 :				
ideo	Help video for setting label roll (standard printer)	No	Select a file to download				
ideo	Help video for setting label roll (printer with cutter/linerless option)	No	File Requirement PNG image file with width 320 pix and height 240 pix				
ideo	Help video for setting label roll (printer with dispenser)	No					
ideo	Help video for setting label roll (printer with dispenser liner rewinder)	No	Step 3 :				
ideo	Help video for setting fanfold label (standard printer)	No	Click START DOWNLOAD button for downloading the file to the printer.				
ideo	Help video for setting fanfold label (printer with cuttter)	No					
ideo	Help video for setting ribbon	No	_				
ideo	Help video for replacing label roll (standard printer)	No	START DOWNLOAD				
ideo	Help video for replacing label roll (printer with cutter/linerless option)	Yes					
ideo	Help video for replacing label roll (printer with dispenser)	No	Deleting Existing File				
ideo	Help video for replacing label roll (printer with dispenser liner rewinder)	No	- Deleting Existing File				
ideo	Help video for replacing fanfold label (standard printer)	No	Step 1 :				
ideo	Help video for replacing fanfold label (printer with cutter)	No	Select file description you would like to delete from the table				
ideo	Help video for replacing ribbon	No					
ideo	Help video for replacing thermal head	No	Step 2 :				
ideo	Help video for replacing platen roller	No	Click DELETE button for deleting the existing file in the printer.				
ideo	Help Video for printer cleanup	Yes					





The Printer Display Customization function records a new file or overrides the old one if the file already exists on the printer. The user is notified by "Yes" if the particular file exists or "No" if there is nothing downloaded there yet.

The downloading process starts by selecting the image/video in a grid needed to download, choosing the particular file from the computer's file system expected to reside on the printer. In order to download the file please press Start Download button.

There are two types of deleting process. The Delete All button removes all files of the printer and the Delete button does it one by one as the selected row indicates.

For image downloading the .png extension having 320x240 pixels size is only accepted. The video downloading will only accept .webm type and the single downloaded file shouldn't exceed 15 MB size.

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

4.40. Export Printer Configuration for NFC Tool

This function is available only for CLNX printer series with serial number 6B~ or newer. NFC Tool is a part of Mobile All-in-One Tool Android app. NFC interface is installed for all CLNX-J printer series (Japan version) and CLNX printer series serial number start with 6B or newer (overseas version).

This feature exports printer configuration from selected printer and save the configuration as file. The file extension is AIOTNFC which can be used with the Mobile All-in-One Tool for transferring configuration to other printers without AC power.

CLNX printer with NFC interface can accept data contains printer configuration via NFC interface while printer power is off. Accepted configuration will be applied when turn on the printer. By using this function, productivity of the printer configuration process may be improved. Users can use this function to configure multiple printer units without removing printer units from packaging box at distribution centre, 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.

Open the All-in-One Tool, select the printer and open Export Printer Configuration for NFC Tool from right click submenu or printer menu.

Help		SAT	All-In-One	Printer Utilities	
I 🔥 🗟 🖬 🗐 🔳		File			Help
L6NX (Online State : Idle)		<u>i</u> 💁 🗉	-	ew printer ve Printer	2 🔤 💻
	Test Print Send SBPL Commands Save Printer Configuration Apply Printer Configuration Firmware Download	•	Apply	rinter Configuration Printer Configuration Printer Configuration for N	state [die]
ß	· · · · · · · · · · · · · · · · · · ·				
0	Restart Printer	•			

Figure 72 Export Printer Configuration for NFC Tool menu



On the Export Printer Configuration for NFC Tool dialog, select interface, provide WiFi Additional Configuration and select application.

		will be exported to data f e sure that you have con		selected printer.
ep1: Please select interfa	ce to be include	ed into the configuration file:		
LAN IPv4	~	Exclude IP Address Set		
WiFi Additional Config	uration			
	5 or 13 Alphan	umeric Characters		8 to 63 ASCII Characters
WEP KEY 1:			WPA PSK:	
	5 or 13 Alphan	umeric Characters		
WEP KEY 2:				
WEP KEY 3	5 or 13 Alphan	umeric Characters		
THE THE TOP	5 or 13 Alphan	umeric Characters		
WEP KEY 4:				
ep 2: Please select applic	ation to be incl	uded into the configuration f	le:	

Figure 73 Export Printer Configuration for NFC Tool dialog

- Interface
 - You can include only 1 printer interface setting into configuration file.
 - If you do not want to include static IP address, check for Exclude IP Address Settings. All-in-One Tool will not include IP address setting into the configuration file.

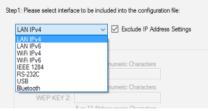


Figure 74 Interface selection



WiFi Additional Configuration

 You need to provide WEP KEY and / or WPA PSK when you select WiFi for interface.

IFI IPv4	~ 2	Exclude IP Address Set	ttings	
WiFi Additional Config	uration			
	5 or 13 Alphanur	neric Characters		8 to 63 ASCII Characters
WEP KEY 1:			WPA PSK:	
	5 or 13 Alphanur	neric Characters		
WEP KEY 2:				
	5 or 13 Alphanur	meric Characters		
WEP KEY 3:				
	5 or 13 Alphanur	meric Characters		
WEP KEY 4:				

Figure 75 WiFi additional configuration

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

the second second second lines.
the configuration file.
the configuration file.

Figure 76 Application selection

Save As dialog will be displayed when you click Save button. Specify file name and save the file. The file shall be transferred to Android mobile device which you will be using Mobile All-in-One Tool for configuring printers.

Note that not all printer settings will be included in the configuration file, as size of configuration file must fit CLNX printer series NFC interface data capacity. Please refer to below table for the settings will be included in the configuration file.

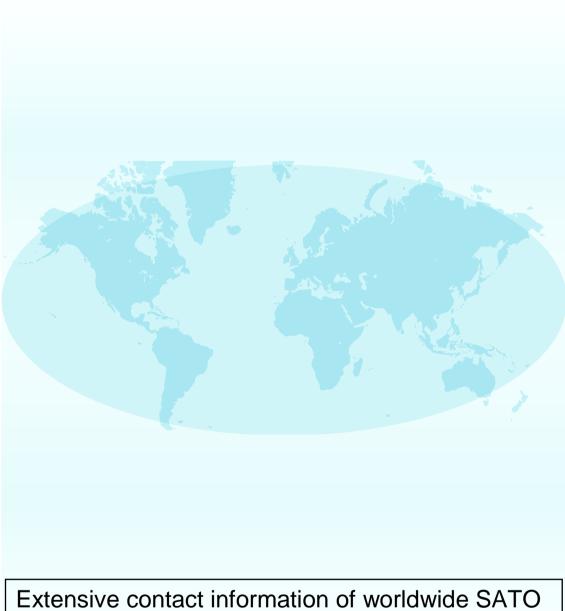


Table 1: Settings will be included in NFC configuration file (interface)

	Print speed Print darkness level Vertical size of label Horizontal size of label Offset of vertical base reference point Offset of horizontal base reference point		√ √ √	√ √ √	\ \ \	√ √ √		√ √	√ √
	Vertical size of label Horizontal size of label Offset of vertical base reference point	\checkmark							
	Horizontal size of label Offset of vertical base reference point		1	/	\checkmark	1	/		
	Offset of vertical base reference point	./						\checkmark	\checkmark
			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Offset of horizontal base reference point	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Print method	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Sensor type	√	√	\checkmark	√	√	\checkmark	\checkmark	\checkmark
	Language settings	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Time zone	√	√	√	√	√	√	√	√
	Power saving setting	\checkmark	1	\checkmark	1	\checkmark	√	√	\checkmark
	Adjust print position	√	√	√	√	√	√	√	√
	Offset adjust	√	~	~	√ √	√ √	√ √	~	~
	Detect ribbon near end	√ ,	√ ,	√ ,	√ ,	\checkmark	\checkmark	~	√
	Priority setting	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	Label near end	\checkmark	√	1	√	√	√	√	\checkmark
	Unit of Measurement	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
LAN	DHCPv4 setting	\checkmark							
	IPv4 address	\checkmark							
	IPv4 subnet mask	\checkmark							
	IPv4 default gateway	\checkmark							
	IPv4 DNS primary address	√							
	IPv4 DNS secondary address	\checkmark							
	IPv6 address setting	•	√						
	IPv6 address setting		√ √						
			√ √						
	IPv6 default router								
	IPv6 subnet prefix		1						
	IPv6 DNS primary address		1						
	Communication protocol (For SBPL)	\checkmark	\checkmark	\checkmark	\checkmark				
	BCC check	\checkmark	\checkmark						
	SNTP function	\checkmark	\checkmark	\checkmark	\checkmark				
	NTP IPv4 server address	\checkmark	\checkmark	\checkmark	\checkmark				
	SNTP error notification	\checkmark	\checkmark	\checkmark	\checkmark				
	SNMP contact information	√	√	√	√				
	SNMP equipment name	\checkmark	\checkmark	\checkmark	\checkmark				
	SNMP installation location	√			√				
	SNMP setting	√	~	1	1				
	-								
	LPD	√ ,	√ /	√ /	√ ∕				
	FTP	\checkmark	\checkmark	\checkmark	\checkmark				
	LAN/WLAN Switching	\checkmark	\checkmark	\checkmark	\checkmark				
WiFi	DHCPv4 setting			\checkmark					
	IPv4 address			\checkmark					
	IPv4 subnet mask			\checkmark					
	IPv4 default gateway			√					
	IPv4 DNS primary address			~					
	IPv4 DNS secondary address			√					
				v	1				
	IPv6 address setting				\checkmark				
	IPv6 address				\checkmark				
	IPv6 default router				\checkmark				
	IPv6 subnet prefix				\checkmark				
	IPv6 DNS primary address				\checkmark				
	WLAN mode			\checkmark	√				
	SSID			\checkmark	\checkmark				
	Hidden SSID			√					
				\checkmark	√ √				
	Channel number								
	Infrastructure mode network security			√ ,	√ ,				
	Adhoc mode network security			\checkmark	\checkmark				
	WEP key			1	√				
	WEP key 1			√ (*1)	√ (*1)				
	WEP key 2			√ ^(*1)	. / (*1)				
	WEP key 3			√ ^(*1)	(*1)				
	WEP key 4			√ ^(*1)	√ ^(*1)				
	WEP key index			~	√ √				
	WPA authentication			√					
				√ (*1)	√ ^(*1)				
	PSK								
	WiFi direct device name			~	\checkmark	,			
	Communication protocol (for SBPL)					\checkmark			
RS-232C	BCC check					\checkmark			
	Baud rate						\checkmark		
	Data bit						\checkmark		
	Parity bit						\checkmark		
	Stop bit						v √		
	Communication protocol (for SBPL)						\checkmark		
	BCC check						\checkmark	,	
	Communication protocol (for SBPL)							~	
	BCC check							\checkmark	
uetooth	Bluetooth								\checkmark
	Communication protocol (for SBPL)								\checkmark
	Authentication level								1
									√ √
	PIN code								
	CRC mode								√

Table 2: Settings will be included in NFC configuration file (application)

Setting	Configuration	SBPL	SZPL	SIPL	SDPL	STCL
SBPL	Zero slash	\checkmark				
	Type face	\checkmark				
	Proportional pitch	\checkmark				
	EURO	\checkmark				
	Kanji code	\checkmark				
	Kanji mode	\checkmark				
	Code page	\checkmark				
SZPL	Pitch offset at top of label		\checkmark			
	Label shift offset		\checkmark			
	Protocol		\checkmark			
	Command head		\checkmark			
	Control head		\checkmark			
	Delimiter		\checkmark			
	Date and time format		\checkmark			
SIPL	Zero slash			\checkmark		
	EURO			\checkmark		
	Code page			\checkmark		
	Proportional			\checkmark		
SDPL	Protocol code				\checkmark	
	SOH				\checkmark	
	STX				\checkmark	
	CRC				\checkmark	
	CNT				\checkmark	
	Label rotation				\checkmark	
	Format attribute				\checkmark	
	Pause mode				\checkmark	
	SOP emulation				\checkmark	
	1 byte code page				\checkmark	
	Compatibility TTF				\checkmark	
	SDPL measure unit				\checkmark	
STCL	Control code					\checkmark
	Command head 1					√
	Command head 2					\checkmark
	Command head 3					\checkmark
	EURO					\checkmark
	Zero slash					\checkmark



Extensive contact information of worldwide SATO operations can be found on the internet at **www.satoworldwide.com**

