

SATO Online Services – User's Manual Oct. 1, 2024 ver 3.6





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1. Revision History

Version	Issued at	Revisions
Version1.0	Aug 03, 2015	Initially published.
Version1.1	Nov 20, 2017	Add some explanation about SOS mobile application.
Version2.0	Sep 17, 2018	Revise for SOS System Renewal.
Version2.1	Jan 15, 2019	Add description about NFC.
Version2.3	Nov 01, 2021	Add description about new feature
Version3.0	Jun 27, 2022	Change description about SATO Online Services version update
Version3.1	Sep 1, 2022	Corrected wrong description about selecting a clone file type in "8- 5.Control panel."
Version3.2	Oct 24, 2022	Change about new feature release
Version3.3	Mar 7, 2023	Change about new series release
Version3.4	Oct 10, 2023	Change about new feature release
Version3.5	Nov 27, 2023	Revise for SOS System Renewal.
Version3.6	Oct 1, 2024	Changes related to the addition of printer availability report functionality





2. Introductions

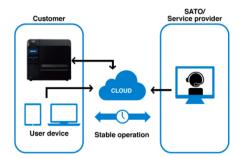
About SATO Online Services

SATO Online Services (hereafter referred to as SOS) monitors all printers using the IoT technology, and performs preventive maintenance, "Proactive action" for consumable parts by tracking the operating statuses. Furthermore, in case of a malfunction, SOS identifies the cause immediately to contribute to quick troubleshooting, and drastically reduces the downtime due to printer errors.

2-1. System configurations

Monitors your SATO printers with the system 24 hours a day, 365 days a year.

- ·Checks the operating statuses of the printers at all times on the SOS Web screen on your PC or mobile device.
- \cdot The SATO assists stable operation without stopping printers by tracking the operating statuses.



2-2. Supported models

CLNX series, LR4NX-FA series, FREQV series, PW208NX series, CT4-LX series, CLNX Plus series, S84/86NX series and PW4NX series

2-3. Stable operations with preventive maintenance

*The SOS system monitors the printers 24 hours a day, 365 days a year (except for maintenance period).

2-4. On-site troubleshooting

If a critical error is detected, the customer is notified,

Critical error: Thermal head, cutter and control board-related errors

Quickly sends a specific solution suitable for the error status via email on the spot.

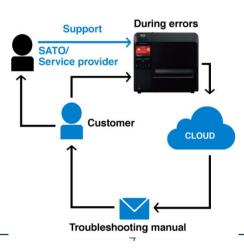
·Notification settings for error statuses can be made. (Optional)

Label end error, various sensor errors, etc.

 $\cdot Sends$ error-specific troubleshooting support instructions via email.

·Promptly grasps the printer status from the cloud for speedy solution.

*If problems cannot be solved on the spot, contact local SATO office





2-5. Long term non-connection alert

For a printer that has not been connected for a fixed term or longer counting from the last connection day, the nearest service center assists to resume connection, and supports to maintain your printer environment.

•Real time connection For a printer that has not been connected for 90 days or longer counting from the last connection day

 \cdot QR/NFC connection For a printer that has not been connected for 180 days or longer counting from the last connection day

3. Initial Registrations

3-1. Open an account.

Before using SOS, create a representative account to log in to SOS by SATO local office or our contracted business partners After an administrative account that represents an individual company or organization is created, the representative account can invite multiple accounts for each printer location or each division.

First, SATO local office or our contracted business partners create the representative account

3-2. Invitation email

Once SATO local office or our contracted business partners invite a main administrate to login to the SOS. Invitation email is sent as follow.



Access the URL written on the email and temporary password, The URL will be invalid in 24 hours for security reasons after the email is received. Access the URL within the time to complete the registration.

Use a combination of alphanumeric with upper and lower case within 8 characters to register a password. However, a symbol cannot be used in the first character of the password.





3-3. Login step

Step 1 Enter the email address and the temporary password.

Velcome.	
n September 17th, SOS has been renewed. If you already have an ID and have not y	
lease reset your password at the login page shown. Further, the sub-domain has chan	ged. So, after you
ave logged in, please bookmark the page and remove the old one.	
lease reset the password from here.	
E-mail	
Password	
<u>F</u>	<u>orgot password</u>
Stay logged in	
Login	
For inquiries about SOS from here	

Step 2 Confirm the terms & condition of the SOS application, and click the checkbox of "I agree to the terms & condition.

Term & condition Please agree to use SOS application.						
I agree to the terms & condition						
Start SOS application						

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Now, you can log in to SOS using the registered email address and password.





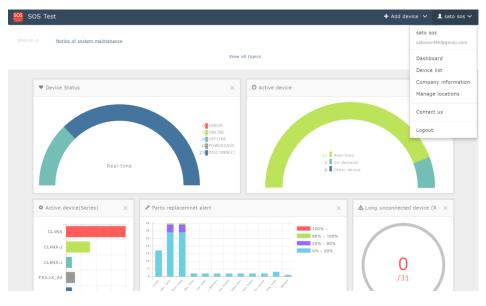
4. Login

S05 English	h 🗸
Welcome. Please enter your e-mail address and password E-mail address Password Password Stay logged in Login Please sign up if you do not have an account Copyright & SATO HOLDINGS CORPORATION. All rights reserved.	

 \cdot Click [SOS Log in] displayed in the sign-up completion screen.

 $\cdot \mbox{The login screen is displayed. Enter the email address and password$

4-2. Updating user information



•Click the account name on the common menu on the upper right.

SOS Test		+ Add devic	ie 🗸 💄 sato
User information			
E-mail address Password User name Language Time zone (Note) Re-login If you change	satosos446@gmail.com Re-set.password sato.sos English (UTC+09:00) Osaka, Sapporo, Tokyo your e-mail address.	Notification set Serious error Machine error Contention Print Nexil (verbatted Notif Yourheated Notif Yourheated Notif Yourheated Wom our Southeated Wom our Southeated Southeated Wom our Southeated Southeated Yourheated	

The following items can be edited on the User information screen.
[E-mail address]
[Password]
[Username]
[Language]
[Time zone]
[Notification set]

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4-3. Re-set password.

Re-set password

Reset the password. Please login again.

SOS Test

	+ Add device	👤 sa
Re-set password		
Enter new password (Setting conditions : 8 or more a mix of lower and uppercase letters and numbers. A symbol can not be specified as the first letter.)		
Password		
Password (Re-confirm)		
Set		
PALL		
Copyright ${\rm I\!O}$ SATO HOLDINGS CORPORATION. All rights reserved.		

·Clicking [Re-set password] on the User information screen will display the screen shown on the left.

sos 🗸

 \cdot Enter the new password twice, and click the [Set] icon.

•Re-set password must be a combination of alphanumeric with upper and lower case within 8 characters to register a password. However, a symbol cannot be used in the first character of the password.

Password reset instruction

•After resetting the password, the screen on the left will be displayed. Then click [SOS Log in].

		9 – ø ×
← → C ● 保護された通信 https://gm	rjapan.sos-pro.net/sos-web/login	아 🕼 ★ 🗄
<u>ses</u>		English 🗸
	Welcome. Please enter your e-mail address and password	
	E-mail address	
	Password	
	Forgot password	
	Stay logged in	
	Login	
	<u>Please sign up if you do not have an account</u>	
	Copyright © SATO HOLDINGS CORPORATION, All rights reserved.	

SOS Log in

Copyright © SATO HOLDINGS CORPORATION. All rights reserved

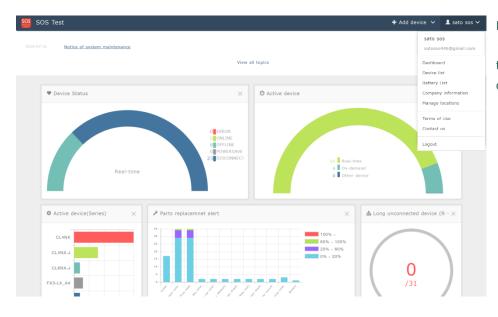
New password entry

•Enter the email address and the new password on the login screen, and click the [Login] icon.



A 8 2027





Password reset complete

•When the dashboard screen shown on the left is displayed, the password reset is complete.





5. Connect Printers

Connect printers to use SOS. There are two methods to connect the printers.

·Real-time connection (Network connection)

The Real-time connection (Network connection) enables the printers connected within your intra-network to be safely connected to the SOS cloud.

The printers are monitored for safety use by sharing the operating statuses, setting information, error information, etc. of the printers with the SOS cloud. Operation log is sent every 60min at normal operation mode but error will be shown at real time by instantly sending error log when an error happens. To connect your printers from the company's intra-network to SOS, establish communication with the following port numbers.

Port number: 443/TCP and Port number: 8883/TCP *Both are for outbound only. <Connection method 1> Use both port numbers 443 and 8883 via firewall. <Connection method 2> Use port number 443 via proxy server and 8883 via firewall.

 $\cdot \textsc{On-demand}$ connection (QR code connection)

The on-demand connection using QR codes requires scanning QR codes of the printers with a mobile device (smartphone, tablet, etc.) where the SOS mobile application is installed beforehand.

The printers are monitored for safety use by sharing the operating statuses, setting information, error information, etc. of the printers

between the mobile device and the SOS cloud.

5-1. Port diagnostic service

•To connect to SOS from your intra-network, a port diagnostic tool that easily diagnoses the network environment is provided. Use the tool from the following SOS portal site.



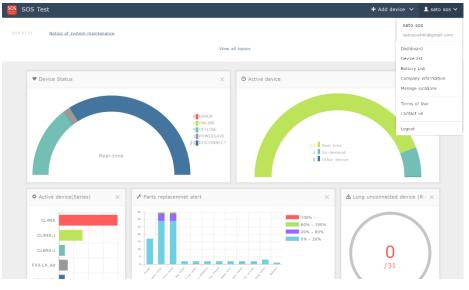
Port diagnostic service

https://www.sato-sos.com/en





5-2. Manage Locations



The installation locations of printers can be added, edited, copied and deleted.
Select Manage locations from the common menu on the upper right of the Dashboard screen.

sos so	DS Test				🕂 Add device 🗸 📲 sato sos 🕯	~
Dashboard	/ Manage locations	Add location		×		
Manage	locations	Location name-	Location name	- 11		
		Country*	Japan	- 11		
	3DP EXPO/IoT World 2016 名古屋_Del149	Postal code*	Postal code		C i	1
		Address*	Address	- 10		
	Libero_Del1497946630	Division *	Division	- 10		
		PIC		- 88		
	SC京都CE_Del1497946681	Contact number *	Contact number	- 68		
	SC八王子①_Del1497946759	Memo	Memo	- 11		
				- 11		
	SC千葉CE_Del1497946809	* Input required				
			Add			
	SC松山_Del1497946928	-C -	SC松本CE_Del1497946954			
	SC横浜_Del1497946967		SC浜松_Del1497946993			
	SC特販部_Del1497947004		m SC目黒			

·Adding installation locations

Click the [+] icon on the Manage locations screen, open the Add location screen, and enter the following items.

Location name* Country* Postal code* Address* Division* PIC (Person In Charge) Contact number* Memo

*All fields followed by an asterisk must be filled in.

After the field entries are complete, click the [Add] icon to complete the setting.



SC SC	DS Test			🕇 Add device 🗸	💄 sato sos 🗸
Dashboard	/ Manage locations				
Manage	locations		+ Batch registration Q	Search	
					•
	3DP EXPO/IoT World 2016 名古屋_Del1497945900		IoT Tech_Del1497946614		
	Location name 3DP EXPO/IoT World 2016 名古層 Del14975 Country Japan Postal Code 450-0002 Address 製制用中柱区名原管利用名古原市 Division Empty PIC Empty Contact number Empty Memo Empty	945900			
	Libero_Del1497946630		SC 名古屋支社_Del1497946666		
	SC京都CE_Del1497946681		SC仙台_Del1498179129		
	SC八王子①_Del1497946759		SC北九州CE_Del1497946777		
	SC千堂CE_Del1497946809		SC札幌CE_Del1497941299		
	SC松山_Del1497946928		SC松本CE_Del1497946954		

A Batch addition of installation locations	×
(Note) All processing will be canceled upon any error	
Ł Registration format	
Country • Japan ~	
Upload file	
* Input required	
Are you ready for batch registration?	
Cancel Start	

• Editing, copying and deleting installation locations

Clicking the location name to edit will open the editing items

as shown on the left. Select the item, and edit it. After entry, click the $[\lor]$ icon to complete the setting.

To copy the installation location, click the [] icon on the right side of the location name.

To delete the installation location, click the [_ _ _] icon on the right side of the location name.

•Batch-register printer installed locations Click [+ Batch registration] button to show pop-up and select special format to batch-register the printer installed locations.

Maximum 2000 cases can be registered at a time to realize time-savings and work efficiency.

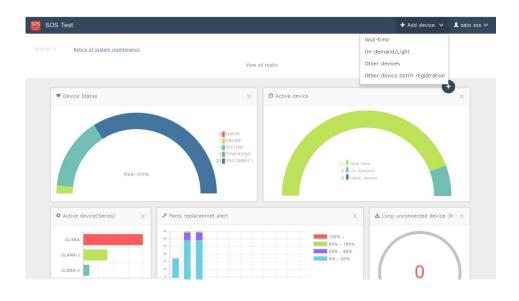
Click [Registration format] button to download the special registration format. When a generated file is selected, batch registration dialog will be shown. Click [Start].

*For registration error, error information file will be output.





5-3. Adding Real time connection devices (network connection (For details, see SOS mobile application)



•Click [+ Add device] on the upper right of the Dashboard screen as shown on the left, and select [Real-time].

SOS Test			🛨 Add device 🗸 🙎 sato sos 🗸
	🖈 Add real time printer	×	
2018-07-01 Notice of system maintenance	Successfully add the	printer Updated	
	ired	tion code] displayed on the printer screen is requ	0
🛡 Device Status		n/support/sos_usermanual.pdr#page=12	×
	Serial number*		
	Association code*	Association code displayed on the printer	
	Device name*		
	Location*		
	Memo1		time smand
Real-time	Memo2		device
	Memo3		
Active device(Series)	* Input required		▲ Long unconnected device (R··· ×
Active device(series)		Add	
CL4NX	Contract in Advanced	60% - 100%	
CL4NX-J	25	20% - 60%	
CLENX-J		0% - 20%	
			U

•The Add real time printer screen is displayed. Then enter the following items.

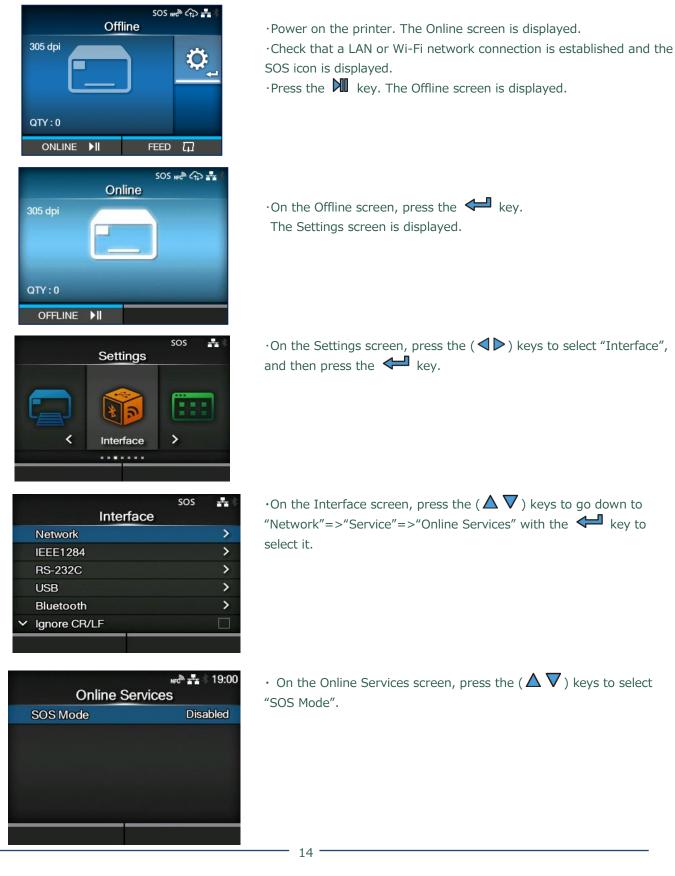
Serial number* Association code* (Association code displayed on the printer) Device name* Location* Memo1 Memo2 Memo3

*All fields followed by an asterisk must be filled in. •After entry, click the [Add] icon to complete the setting.



Displaying the serial number and association code on the printer

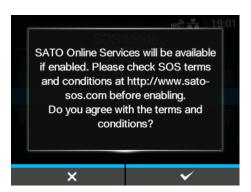
This section describes how to operate the printer and shows screen samples. For details on printer operations, go to the manual available on our SOS website.(Search SATO ONLINE SERVICES)





	NFC 19:02
SOS Mode	
Disabled	~
On-Demand	
Real-Time	
	\checkmark
	\checkmark

·On the SOS Mode screen, press the ($\bigtriangleup \nabla$) keys to select "Real-Time", and then press the \fbox key or \clubsuit key.



Online Services

SOS Mode

Allow Remote Control

SOS Association Copy Log Files Contact Information sos 🎧 🚣

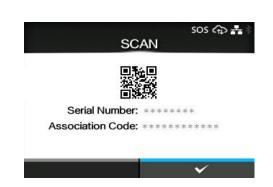
Real-Time

Always

>

 $\cdot Read$ the SOS Terms and Conditions, and then press the $\fbox{}$ key to accept it.

 \cdot Go back to the Online Services screen. Press the ($\Delta \nabla$) keys to select "SOS Association", and then press the \Leftarrow key.



* Prepare memo paper at hand.

•The 8-digit "Serial Number" and 12-digit "Association Code" are displayed. Write them down and transfer the number and code on the Add A Printer screen previously shown.

•After entering them, check that the field icon appears at the top of the screen. If the icon does not appear, the printer may be disconnected from SOS Cloud. Check network settings again.



5-4. Adding On-demand devices(With QR connection) or Light connection devices

Operate the printer to show the on-demand PIN registration screen.



· On the Settings screen for the printer, press the $(\triangleleft \triangleright)$ keys to select "Interface", and then press the \nleftrightarrow key.

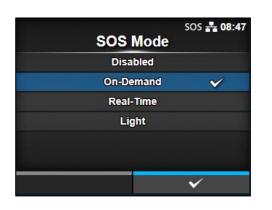
Sos AN Interface >> Network >> IEEE1284 >> RS-232C >> USB >> Bluetooth >> Y Ignore CR/LF □ · On the Interface screen, press the ($\Delta \nabla$) keys to go down to "Network"=>"Service"=>"Online Services" with the \clubsuit key to select it.

	Online Servi	408:4 ices
	SOS Mode	On-Demand
	Add Device	Start
	Contact Information	>
	Periodic Notification	Offline >
	Update Screen	Normal
~	QR code offset	>

 $\cdot\,$ On the Online Services screen, press the ($\Lambda\,\nabla$) keys to select "SOS Mode".

\cdot On the SOS Mode screen, press the (Δ $ abla$) keys to select
Demand" or "Light",
and then press the 🔝 key or 🛹 key.

"On-

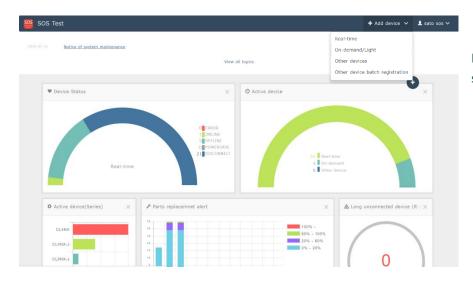




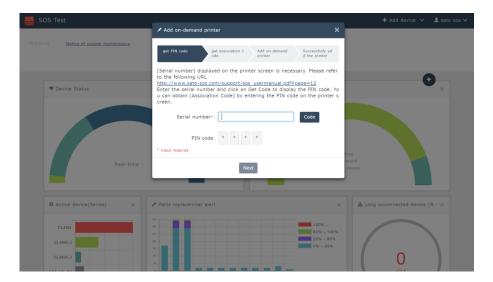
16 -



The serial number of the printer is displayed.
 After that, configure settings for SATO Online Services.



•Click [+ Add device] on the upper right of the Dashboard screen as shown on the left, and select [On-demand/Light].



•The Add on-demand printer screen is displayed. Then enter the serial number displayed on the LCD of the printer, and click the [Code] icon.

 $\cdot [\mbox{PIN code}]$ is displayed, and enter it on the printer side.

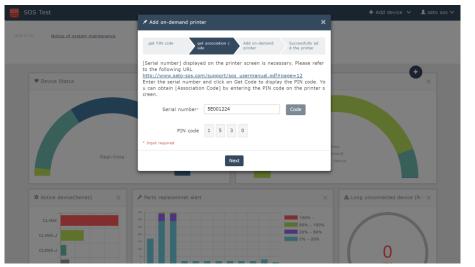






×

•Pressing the \frown key on the screen where the printer serial is displayed will display the PIN entry screen. Press the ($\Delta \nabla$) keys to set the PIN code for the printer. The printer screen displays the association code.



*Perform the following operations on the PC.

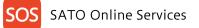
 $\cdot \mbox{Click}$ the [Next] icon on the screen shown on the left.

★ Add on-der	nand printer X	
ente-of-at Notice of system maintenance get PIN code	get association c Add on-demand Successfully ad ode sprinter d the printer	
required	ode] displayed by entering PIN code on the printer screen is ato-sos.com/support/sos_usermanual.pdf#page=12	•
	l number 5E001224	
	PIN code 1530	
Associa	tion code* Association code displayed on the printer	
Devi	ce name-	
	Location*	bine mand
Real-time	Memo1	
	Memo2	
• Active device(Series)	Memo3	▲ Long unconnected device (R×
* Input required		
CLANX	Add	
CL4NX-J	0% - 20%	
CLENX-J		0

Enter the following items.
Association code*
(Association code displayed on the printer)
Device name*
Location*
Memo1
Memo2
Memo3
*All fields followed by an asterisk must be filled in.
After entry, click the [Add] icon to complete the setting.



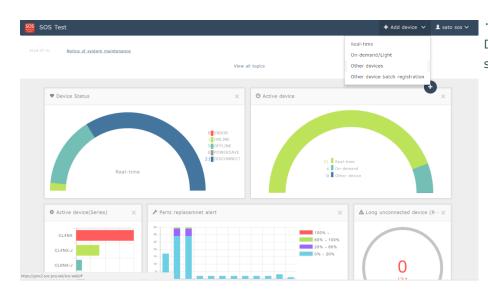




5-5. Adding On-demand devices(With NFC)

If you are using following printer series (PW2NX, FX3) then you can connect your printer to SOS via NFC. If you want to use this method, please use SOS Mobile application and see that's manual.

5-6. Adding other devices



•Click [+ Add device] on the upper right of the Dashboard screen as shown on the left, and select [Other device].

		×		
Notice of system.	Add other device Successfully add other devic e			
	(Note) Please set the asset management number unique in the organization. When it is blank, the syst omatically assigns it.	tem aut		
Device Status	Asset No			×
	Device name* Model name			
	Serial number			
	Location* Installation d ate*	節		
	Asset acquisit 🛛 🗧 🖀			
	Deactivation			
	Firmware IP address			
	Memoi			
Active device(Series	Memo2		nected device (R… ×
CL4NX	Memo3			
	* Input required			
CL4NX-J	Add		0	
CL6NX-J			U	

 $\cdot \mbox{The Edit}$ other device screen is displayed. Then enter the following items.

Asset No Device name* Model name Serial number Location* Installation date* Asset acquisition date Deactivation Firmware IP Address Memo1 Memo2 Memo3

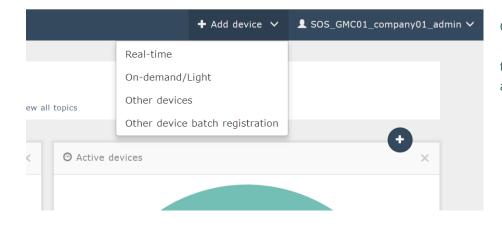
*All fields followed by an asterisk must be filled in.

After the field entries are complete, click the [Add] icon to complete the setting.





5-7. Adding other devices batch registration



Other device batch registration

•Click [+ Add device] on the upper right of the Dashboard screen as shown on the left, and select [Other device bulk registration].

earrow Batch registration for other devices	×
(Note) All processing will be canceled upon any error	
🛃 Format	_ 1
Upload file	
	_
0 ERROR	

The Batch registration for other device screen is displayed. Then click the [Format] icon, and download the format.
With the [File selection] icon, select the format with the items in 5-6 section entered, and click the [Start] icon to complete.





6. Company info

6-1. Updating company information

Clicking the Company information on the main menu will display the Company information screen.

SATO Test		+ Add device ∨ 💄 sato sos ∨
Com	npany OD#t± Netification my ID ORG00/42 CL4NX (194002811060H4376H590ENE1b777deabb) CL4NX Serious en unitry Apriculture Serious en Long units Loade 0000000 FXH+X	mors onnected notification
Share printer printer operation status report guide printer operation status report guide	ESV) PWNX	505
User information Admin sato sos satosos447@gmail		•
sato sos satosos447@gmail	мп 	

When logging in with the administrator authority or editor authority, Company, Industry, Country, Postal code, Address and Share printer control can be edited. When logging in with the viewer authority, viewing is only possible.

1. About Share printer control

If Share printer control is set to "Yes," the settings of your label printers can be changed by our customer help desk.

Support is provided when you have any problems.

If Share printer control is set to "No," the settings of your label printers cannot be changed by our customer help desk.

Viewing is only possible.

2. Regarding printer operation status report notification via CSV, PDF format (message shows when selected data is created)

Operation status report of the contracted printers will be distributed quarterly.

The data can be downloaded after the report is distributed.

The file will be output by pressing the respective button and the data can be viewed.





6-2. Company - Notification settings

Clicking the Company information on the main menu will display the Company information screen.

SATO Test					+	Add device 🗸	👤 sato sos 🗸	
Dashboard / Company inf	formation							
Company	information							
	Company ID Company ID Industry Country Postal code Address	SATO Test ORG624A4 FA-Other manufacturing i Viet Nam 100000 HanoiHanoiTLIP1, TLIP2	ndustry	Notification settings CL4NX Serious errors				
	Share printer control	Yes						
User infor Admin	rmation						0	
sato sos	5 sato	sos447@gmail.com						

When logging in with the administrator authority or editor authority, Notification settings can be edited. When logging in with the viewer authority, viewing is only possible.

1. About Notification settings as default

As default settings, an email notification is sent if serious errors designated by our company occur.

2. Editing Notification settings

Clicking Serious errors, etc. of the series to edit notification settings will open the screen of the notification settings details. Then the detailed settings can be made.

The notification settings can be made for each series.

Notification s	ettings	
Auto labele Battery Option Warnings	errors cation and network er nnected notification	* *
	Serious errors	



3. Notification type

Notification settings	and errors are shown in the below table. Those may not be supported by some series.
Critical error	Machine error, thermal head error, cutter error, battery degradation
Common errors to devices	Head open, paper end, ribbon end, printing skip error, sensor error, cutter is open, overheat error, head density change, gap not found, cover open, I mark not found, paper jam error, power ON/OFF switch error while printing, abnormal supply voltage error, printing skip error, over range printing error, paper auto-feed error, tag not found, write failure, tag read failure, tag locked for writing or tag cannot be written, write value and read value unmatched, lock failure, wrong tag UID is read, multiple tags captured at once, inconsistent EPC, writing is locked or no power to write, wrong tag type selected, internal error occurred, out of power, auto clone error, Bluetooth
Communication, network	MFi chip error Program error, communication condition check(parity/overrun/framing), buffer overflow, USB memory read/write error, USB memory storage is full, command error, calendar error, BCC unmatched, NTP error, EAP authentication error, EAP authentication error(timeout), Bluetooth error, CRC check error, WLAN error
Auto-labeling	Adherence error(while printing/label pasting), label paste error(takeaway, no pasting), over capacity(data not available/offline/start point warning/label paste ongoing), cylinder error(forward/backward), emergency stop error, nip is open, backing winding non-lock error, assisting nozzle error, dumper error, pasting area save error, internal signal trouble, dedicated error1, dedicated error 2, dedicated error 3, external alarm, internal signal trouble2
Battery	Low battery, low battery error(charging), battery not inserted, cannot use battery, battery temperature error, battery error, charging, battery consumption warning, power off error, re-setting, charging error,battery consumption warning
Options	RFID tag error, RFID system error, option error, non-RFID warning, NFC error, NFC command error, barcode reader connection error, barcode read error1, barcode read error2, barcode matching error, RTC module error, RFID SRA Error, RFID overheat error, option not supported
Warning	Ribbon near end, label near end, head error
Alert	Excess address, printer cleaning needed, thermal head replacement needed, cutter replacement needed, platen roller replacement needed
Long time disconnection notification	Head Density Change, Network long-term unconnected
Information	Maintenance, Email notifications of failures, etc
Printer operation status report guide	Printer availability report information email





6-3. Company - User information management

Clicking the Company information on the main menu will display the Company information screen.

Company Company ID	SATO Test ORG624A4	Notification settings CL4NX	
Industry	FA-Other manufacturing industry		
Country	Viet Nam	Serious errors	
Postal code	100000		
Address	HanoiHanoiTLIP1, TLIP2		
Share printer control	Yes		
User information			
Admin			- -
sato sos sato	osos447		

Only when logging in with the administrator authority, the User information is displayed, and users can be added, edited and deleted.

1. Adding a user

Clicking the plus button on the right side of the screen will display the New user screen. Enter E-mail, Username, Access level and Responsible location of the person to invite, and click Add. Then an invitation mail is sent to the entered email address.

👤 New user		×
E-mail*	sato@sato-global.com	
User name*	sato	
Access level*	Editor •	
Responsible location*	Assembling	
* Input required		
	Add	

The invited person clicks the URL written in the received email, open the login screen, and log in with the email address and temporary password.

It is information from SATO SOS. "SOS Test"sato sos received an invitation to the account addressed to this email addres	s.
Please proceed to sign up from the following URL. After signing up, you can use the service from the login to the printer like "SOS Test". <u>https://gmc2.sos-pro.net/sos-web/login</u>	
Temporary password:b57hPon6cf5M7qK2	





2. Editing a user

The authority indication and responsible location of the user displayed with a dotted underline can be edited.

,	Access lev	rel	
ť	Viewer Admin Editor	ver	- The second sec
cor	Viewer	o sos	@sato-global.com

3. Deleting a user

Click the trash can mark to delete the user. To invite a user once deleted, add the user.

6-4. Access level setting

SOS classifies the access level of users logging in into 3 types: Administrator, Editor and Viewer to enable appropriate management.

- $\cdot \text{Admin} \dots \text{Adding}$ a user and all the other operations are allowed.
- ·Editor ... Adding a user, device, etc. is not allowed.
- ·Viewer ... Viewing only restricted information is allowed.

1 New user		×
E-mail*		
User name*		
Access level*	Viewer 🔻	
Responsible location*	Admin Editor	
* Input required	Viewer	
	Add	





6-5. Client collaboration setting

If there is a collaboration contract with ReMoCloud, "Get API Key" button will show.

SOS Test			+ Add device ${\color{red} }$	L sato sos ∨
Dashboard / Company information				
Company information				
Company Company ID Industry Country Postal code Address Share printer control IPF Key Acquisi	SOS Test ORCS9F02 Retail-Mass merchandise Japan 1030000 Chuo-ku, Tokyo Yes	Notification settings CL4NX CL4NX-J CL6NX-J		
User information				0
Admin				•
sato sos yukae	chizen1@gmail.com			

The button will show and API Key can be issued only if a login is made with the administrator authority.

1. API Key issuance

By clicking "Get API Key" button, API Key Acquisition screen will show.

Client	t selection • ReMoCloud
Langu	uage · English 2
	API Key • Get API Key 3
* Input	required 4
1	Select Client "ReMoCloud".
(2)	Select a display language.
3	Issue API Key.
	By clicking "Get API Key" button, API Key will be issued and shown next to the button.
	Get API Key * Get API Key wBd7n62IoDvY
(4)	Copy the displayed API Key to the clipboard.
(5)	Register the selected client, language, API Key.
	After the message is shown, click "OK" button to complete the registration.
	Press the Copy API Key button and press OK to register.

Please see ReMoClosud manual for the flow of API Key setting at ReMoCloud.





7. Dashboard

7-1. Common operations

When logging in, the following Dashboard is displayed.

SOS	ATO Test			╊ Add device ヽ	💄 sato sos 🗸	ŕ
	2018-08-13 Notice of system maintenance		II topics			
		view a	II topics			
	Device status	×	☑ Active devices		×	
	Real-time	S EROR 13 ON INE 6 OFFLINE 18 OVERSAVE 24 DISCONNECT	63 Real-time 0 On-demand 0 Other devices			
	Active devices (Series)	🗲 Parts replacemnet alert	× 🔺 U	nconnected 90 days (Re	al ×	
	CL4NX	10 10 10 10 10 10 10 10 10 10 10 10 11 10 12 10	100% - 60% - 100% 20% - 60% 0% - 20%	0 /68		

- 1. Home button
 - SOS

Clicking the SOS mark on the upper left of the screen will display the Dashboard.

2. Adding a device

+ Add device Clicking the Add device button on the upper right of the screen will display the device connection menu.

- $\cdot \mbox{Real-time}$ $\hfill \hfill \hfill$
- ·On-demand ... Displays a screen to add a QR connection device.
- •Other device ... Displays a screen to add an SOS-incompatible device or other devices.
- $\cdot \mbox{Other}$ device batch registration
 - ... Displays a bulk registration screen to add an SOS-incompatible device or other devices.
- 3. Main menu

Clicking the login name on the upper right of the screen will display the main menu.

·Login name ·Dashboard

· Device list

👤 sato sos 🗸

- ... Displays the User information screen.
- ... Displays the Dashboard.
- ... Displays the Device list screen.
- $\cdot \mbox{Company}$ information $\quad \dots$ Displays the Company information screen.
- •Manage locations ... Displays the Manage locations screen.
- Contact us
- ... Displays the Contact us screen.

... Displays the Terms of Use.

- •Terms of Use
- ... Select this to log out.
- ·Logout

- 27 -





7-2. Dashboard

You can check the statuses of your devices clearly on this home screen.



7-3. Dashboard parts

Individual parts that constitute the Dashboard are called the Dashboard parts.



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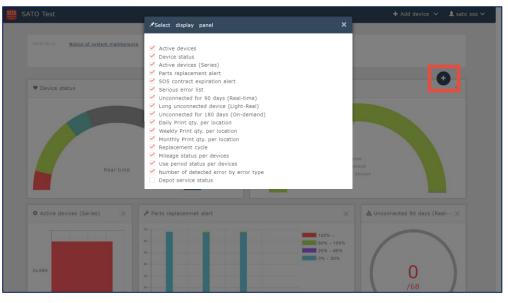
Available Dashboard parts are shown in the table below.

1	Number of registered devices	Show number of registered devices per network connection method in graph.
2	Network connection status	For registered devices, show number of devices connected to network per connection status in graph.
3	Number of registered devices per series	Show number of registered devices per series in graph.
4	Consumables replacement alert	Show use status of consumables and the qty. per part in graph.
5	Maintenance contract alert	Show number of devices with maintenance alert appeared.
6	Serious error list	For registered devices, show a list of serious-error-detected devices with model name, installed location and the trouble date.
7	Long unconnected (network)	For devices with long unconnected alert appeared, show number of devices which are "connected to network".
8	Long unconnected (QR/NFC)	For devices with long unconnected alert appeared, show number of devices which are "connected via QR/NFC".
9	Long unconnected(Lite mode)	For devices with long unconnected alert appeared, show number of devices which are "connected via Lite mode".
10	Daily print qty. per device installed location	Show daily total label print qty. of registered devices in graph. Print history can be output via CSV file. *Feature supported in SOS agent V4 and later(for real time <u>communication devices only)</u>
11	Weekly print qty. per device installed location	Show weekly total label print qty. of registered devices in graph. Print history can be output via CSV file. <u>*Feature supported in SOS agent V4 and later(for real time</u> <u>communication devices only)</u>
12	Monthly print qty. per device installed location	Show monthly total label print qty. of registered devices in graph. Print history can be output via CSV file. *Feature supported in SOS agent V4 and later(for real time <u>communication devices only)</u>
13	Parts replacement log	Show replaced parts and the replacement cycle of the parts of the registered devices per series in graph. Parts replacement log can be output via CSV file.



14	Number of devices per mileage	Show mileage of registered devices and number of devices per mileage in graph. Can also check how many devices have reached certain mileages. Mileage log can be output via CSV file.
15	Number of devices per use period	Show use period of registered devices and number of devices per use period in graph. Can check how many devices have reached certain use periods. Use period log can be output via CSV file.
16	Number of errors detected per error type	Show errors detected in registered devices and number of errors detected in graph. Error log can be output via CSV file.

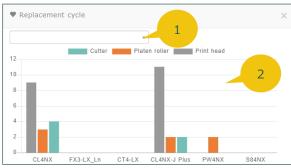
The Display locations of Dashboard parts can be changed. Also, Show/Hide setting for each part can be made.



- Changing the display locations of Dashboard parts
 Drag the Dashboard part you wish to move to the desired location in order to change the display location.
- Show/Hide setting for Dashboard parts
 Clicking the plus button will display the Select display panel screen.
 Add the ☑ mark to the Dashboard parts to display, and remove the ☑ mark from the Dashboard parts to hide.

Parts replacement cycle

Show replaced parts and the replacement cycle of the parts of the registered devices per series in graph. Parts replacement log can be output via CSV file.



X axis	Device series	
Y axis	Replacement cycle	
Parts	Replacement cycle	
	per part	



1.Select device installed location

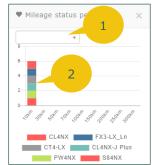
Device installed location of the devices displayed in the graph can be selected. If the search window is left blank, devices of all installed locations will be shown.

2. Graph

By clicking the graph, device installed location can be selected and parts replacement log data file can be downloaded. The log can be used for understanding and analyzing parts replacement trend per serial number, installed location, etc.

Mileage

Show mileage of registered devices and number of devices per mileage in graph. Can also check how many devices have reached certain mileages. Mileage log can be output via CSV file.



X axis	Mileage
Y axis	Number of devices
Device series	Number of devices per
	series

1. Select device installed location

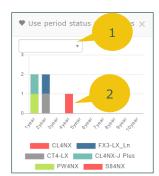
Device installed location of the devices displayed in the graph can be selected. If the search window is left blank, devices of all installed locations will be shown.

2.Graph

By clicking the graph, device installed location can be selected and mileage log data file can be downloaded. The log can be used for understanding and analyzing mileage trend per serial number, installed location, etc.

Use period

Show use period of registered devices and number of devices per use period in graph. Can check how many devices have reached certain use periods. Use period log can be output via CSV file.



X axis	Use period
Y axis	Number of devices
Device series	Number of devices per
	series

1. Select device installed location

Device installed location of the devices displayed in the graph can be selected. If the search window is left blank, devices of all installed locations will be shown.

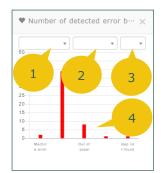


2. Graph

By clicking the graph, device installed location can be selected and use period log data file can be downloaded. The log can be used for understanding and analyzing use period trend per serial number, installed location, etc.

Number of errors detected per error type

Show errors detected in registered devices and number of errors detected in graph. Error log can be output via CSV file.



X axis	5	Error type
Y axis	5	Number of errors
		detected

1.Select error type

Error type displayed in the graph can be selected. If the search window is left open, all error types will be shown.

2.Select month

Month displayed in the graph can be selected. If the search window is left open, current month will be shown.

3.Select page

Maximum 8 error types can be shown in one page. More than 9 error types will be shown in multiple pages; select the page to be shown in the search window.

4.Graph

By clicking the graph, error type and period can be selected and use error log data file can be downloaded. The log can be used for understanding and analyzing error trend per serial number, installed location, etc.





7-4. Downloading asset information

You can download the device information displayed on the Dashboard in the CSV file format. Click the Device list on the main menu to display the Device list screen.

+ Add device	✓ SOS_GMC01_company01_admin ✓
	Dashboard
	Device list Battery List
	Company information
	Manage locations
	Terms of Use Contact us
	Logout

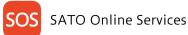
Click the Asset management list button on the Device list screen to download the CSV file.

After the CSV file is successfully downloaded, click the bottom right of the screen to display the file in Excel format.

SOS_GMC01_	_company01					+ Ac	dd device 🗸 💄 SC	DS_GMC01_com	oany01_adn
Dashboa	<u>rd</u> / Device list								
Display 1 t	o 6 of 6			1	🕹 Asset r	management list 🛃 🛃	vice list Q Sea	rch	
Serial numb	er ↓↑ Device name ↓↑	SOS type ↓↑	Model name 🕼	Location 🕼	Series 🕸	SOS registration date $\downarrow\uparrow$	Contract expired $\downarrow\uparrow$	Status 🗍	Last erro
TAKI1111	TAKI1111	Real-time	CL4NX-J 609dpi	33333	CL4NX-J	2018-09-07	9999-12-31	DISCONNECT	Head op
TAKI0001	TAKI0001	On-demand	CL4NX-J 609dpi	4444	CL4NX-J	2018-08-17	9999-12-31		Head op
TAKI0002	TAKI0002	On-demand	SATO PRINTER	33333		2018-08-17	9999-12-31		
TAKI0003	TAKI0003	On-demand	SATO PRINTER	33333		2018-08-17	9999-12-31		
TAKI0004	TAKI0004	On-demand	SATO PRINTER	33333		2018-08-17	9999-12-31		
TAKI0005	TAKI0005	On-demand	CL4NX-J 609dpi	33333	CL4NX-J	2018-08-17	9999-12-31		Head op

4	Тор	Back	1 Next	► Last	
	Copyright © SATO HOLDINGS CORPORATION. All rights reserved.				
🚯 device_list_201809xlsx \land				すべ	て表示

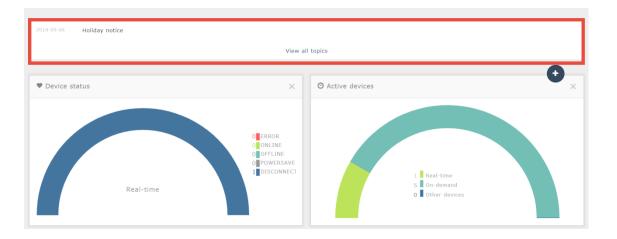




7-5. Topics

Displays topics related to SOS.

Notifies the maintenance, added new functions, etc. of the SOS system.



Checking the past topics 1.

Click "View topics list" to check the past topics.

1	All Topics						
	2018-09-06	Holiday notice					
	Display 1 to 1 of 1 🞜		Тор	Back	1	Next	Last
					_		

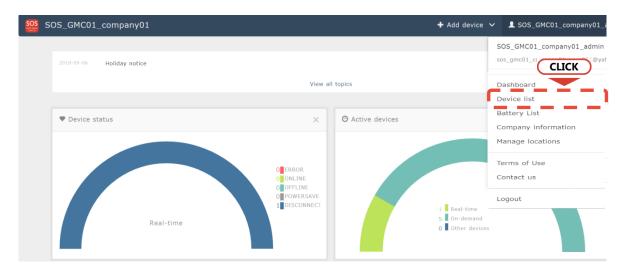




8. Administrating Registered Printers

8-1. Device list

Using the Device list, you can search and manage the devices you have registered with SOS. To display the Device list, select "Device list" from the common menu.



Q	Dashboard / D	evice list			3	4		5	
	Display 1 to 33	of 33 🖸	100 🗸 items disp	played 🛃 Ass	et management list	🛓 Device list 🛓 M	aintenance history	Q. Search	
2	Device name 🕼	SOS type $\downarrow\uparrow$	Model name 🕸	Status 🕼	Location 1				
	Printer 0013	Real-time	CL4NX		Factory01				
	Printer 0015	Real-time	CL4NX		Factory01				
	Printer 0016	Real-time	CL4NX		Factory01				
	Printer 0017	Real-time	CL4NX		Factory01				
	Printer 0002	Real-time	CL4NX 305dpi	DISCONNECT	Factory01				

Device list control

1. Search window

Open the Search window, and narrow down devices to be displayed in the search result by using multiple items as search keys, such as device name and installation location.



OS SATO Online Services

2. Details

Device details are shown. Clicking the Details will display the Device details screen that allows you to check more detailed information such as device setting information.

3. Download button

Search results can be downloaded in a batch. More items are output with the Asset management button than with the Device list button. Note that the Asset management button can be used only by customers who have signed up for our maintenance support.

4. Maintenance log button

Maintenance log of all devices can be downloaded via CSV file. The log can also be downloaded via CSV file from [Maintenance history] of "Device detail." ***This feature will be enabled sequentially as soon as the system information is integrated.**

5. Free word search

Further narrow down the contents of the Device list currently displayed with free words. The search targets of the contents entered here are all columns.

6. Display column selection

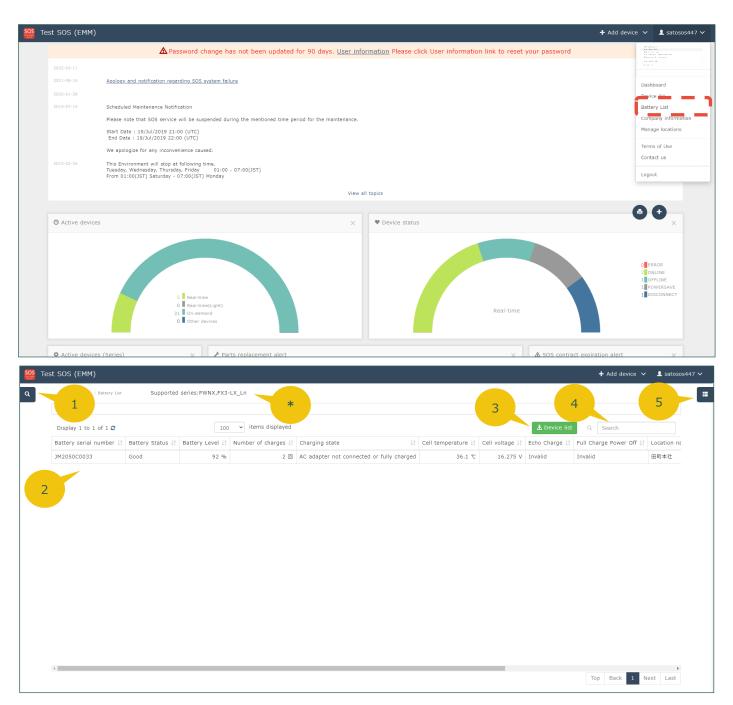
You can select columns to display in the list. Select necessary items such as consumption rate of printer consumables so that the selected items can be displayed at the next and succeeding searches.





8-2. Battery list

In Battery list, batteries used in the devices registered to SATO Online Services by customers can be searched and managed. Battery list can be shown by selecting "Battery list" from the common menu. This feature is supported in devices that use batteries.



Battery list control

1. Search window

Open Search window to filter multiple items to be displayed in the keys including battery status, remaining battery capacity.



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- Battery information
 Show Battery information. Display items can be customized. <u>*"Battery serial number" will be supported</u> <u>from the newly releasing devices.</u>
- [Device list] button
 Battery list information can be downloaded via CSV file.
- Free word search Devices shown in Battery list can be further filtered by free word search. Entered free word applies to all lines shown in the Battery list.
- Select display items
 Display items in Battery list can be selected. Choose necessary items such as battery status and remaining battery capacity to show the selected items from the next time onwards. <u>*"Battery serial number" will be</u> supported from the newly releasing devices.

*Support models may vary according to future release of new models.





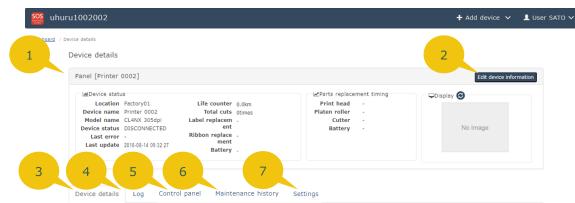
8-3. Device details

On the Device details screen, you can display various information such as device setting information and usages of parts,

and edit registration information of devices.



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Summary		Replace spare parts	
Responsible org	テスト-Voice Crew Support	Spare parts status C Platen roller replace	cement P/H replacement
Country	Japan	Replace cutter unit	
Status	DISCONNECTED		
Last error	-		ancy value
Depot service	Service request	Platen roller 0.0 kr	
Last update	2018-08-14 09:32:27	Print head 0.0 kr	
Serial number	4B031700	Cutter 0 time	
Company ID	ORG1B676	Head resistance value MAX	45%
SOS type	Real-time	Usage	
Firmware	1.8.1-u111_r6	Parts replacement alert	-
Contract number	-	Long unconnected	-
Contract name	-	Total cuts	Otimes
Contract start date	-	Life counter	0.0km
Contract expired	-	P/H usage ratio	0%
SOS agent version	dev:a6aed254932f0aa0d840de00b 6e7fb464e944b90	Next service timing (P/H)	-
Print Method	Direct thermal	Number used	Otimes
Speed	6	Cutter usage ratio	0%
Darkness Range	A	Next service timing (cutter)	-
Sensor Type	I-MARK	Number used	Otimes
Darkness	5	Platen roller usage ratio	0%
Print Mode	CONTINUOUS	Next service timing (Platen roller)	
Backfeed	None	Number used	Otimes
Dackiecu	None	Battery charge count	-
		Battery status	-
Location		Number of labels used in total	-
Company	uhuru1002002	Number of ribbons used in total	-
Location	Factory01	Total application times	-
Postal code	1030001	Number of passes	-
Address	tokyochuouku20	Total power-on time	-
Contact number	-	Total suction time	-
Memo1	-	Uptime	-
Memo2		Life counter prediction	-

		Real-time	
Asset information		Clone	0
Device name	Printer 0002	MAC address	D0:FF:50:5A:26:65
Series	CL4NX	IP address	192.168.136.124
Model name	CL4NX 305dpi	DNS: IP address	0.0.0.0
SOS registration date	2016-11-22	Proxy On / off	OFF
Asset number	CL4NX-305-HF	Proxy: IP address	0.0.0
Asset acquisition date	2017-03-02	NTP: IP address	0.0.0
Installation date	2016-11-22	Bluetooth enabled	Valid
		Wi-Fi status	DISABLED

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RFID Enabled

Valid



OS SATO Online Services

1. Device Panel

Displays the basic information of a device. Clicking the Gicon in the Display status field will enable you to capture the current printer screen.

(The capture function may not be used depending on the firmware version of the printer.)

- Edit device information button
 Edit the displayed device name, and register or delete the device.
- 3. Device details tab

Refer to the usage and setting contents of the device. Available information of the items are shown in the table below. (**Contents of the table may vary according to future release of new models.**)

Summary	Replace spare parts
Responsible organization, Country, Status, Last error, Depot	Spare parts status(Platen roller, Print head, Cutter, Maximum head
service, Last update, Serial number, Company ID, SOS type,	resistance), Platen roller replacement(Current parts, Parts
Firmware, Contract number, Contract name, Contract start date,	replacement), Thermal head replacement(Current parts, Parts
Contract expired, SOS agent version, Print method, Speed,	replacement), Cutter replacement(Current parts, Parts
Darkness range, Sensor type, Darkness, Print mode, Backfeed	replacement)
Location	Usage
Company, Location, Postal code, Address, Contact number,	Parts replacemnet alert, Long unconnected, Total cuts, Life
Memo1, Memo2, Memo3	counter, Total print quantity, Print head usage ratio, Next service
	timing(Print head), Number used(Print head), Cutter usage ratio,
	Next service timing(Cutter), Number used(Cutter), Platen roller
	usage ratio, Next service timing(Platen roller), Number used(Platen
	roller), Battery chage count, Battery status, Number of labels used
	in total, Number of ribbons used in total, Total application times,
	Number of passes, Total power-on time, Total suction time,
	Uptime, Life counter prediction, Total print quantity, Daily average
	print quantity, Weely average print quantity, Monthly average print
	quantity
Asset information	Real-time
Device name, Series, Model name, SOS registration date, Asset	Clone, MAC address, IP address, DNS: IP address, Proxy On/Off,
number, Asset acquisition date, Installation date	Proxy: IP address, NTP: IP address, Bluetooth enabled, Wi-Fi
	status, RFID enabled, W-LAN module type, MQTT protocol

4. Printer log tab

Check the history of operations performed by the SOS system to the device, history of errors and warnings that have occurred on the printer, etc. The details are described in the next and subsequent pages.

5. Control panel tab

Printer control can be performed such as test print to the printer from the SOS system. The details are described in the next and subsequent pages.



SATO Online Services

6. Maintenance history tab

Maintenance log of devices can be viewed and downloaded.

7. Settings tab

Refer to the setting parameters of the printer and change the settings. The details are described in the next and subsequent pages.





8-4. Printer log tab

sos uhuru1002002					+	Add device 🗸	👤 User SATO 🗸
Dashboard / Device details							
Device details							
Panel [Printer 0002]						Edit device info	rmation
Lad Device status Location Factory01 Device name Printer 0002 Model name CL4NX 305dp Device status DISCONNECT Last error - Last update 2018-08-14 09-3	ED ent Ribbon replace	Otimes -	Parts replacen Print head Platen roller Cutter Battery	nent timing - - -	Display 🚱	No Image	
1	Control panel Setting	ĮS		2			
Log type				Search 🛃 Downl	oad		
	yed Date search2018-0	8-20 10:50:46			Q Se	arch	
50 • items displa	yed Date search2018-0 Type 41	8-20 10:50:46 Description	ţţ	Value	Q Sea		tt.
50 v items displa		Description	↓† is no data	Value			11

1. Search conditions

A log extraction period and log type can be specified as search conditions.

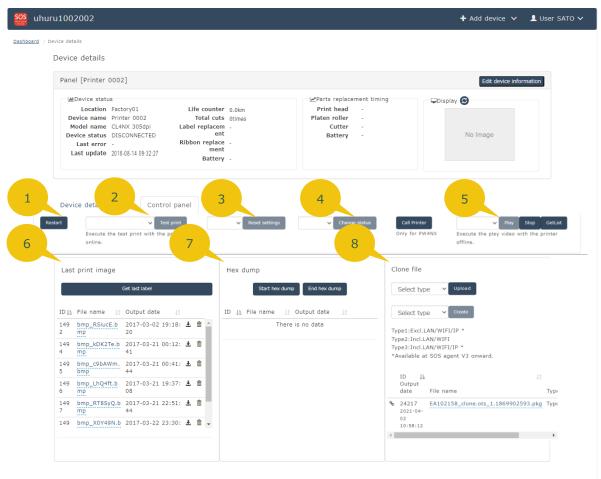
2. Download button

The search result of the displayed log can be downloaded in text file format.





8-5. Control panel



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1. Restart button

The printer can be restarted on the SOS system. Note that when labels are being issued, it is stopped before restart.

2. Test print button

Select an item to test-print from the combo box, and click the Test print button to direct the printer to testprint.

3. Reset settings button

Select "UserReset(-I/F)" from the combo box, and click the reset settings button. Then the setting parameters of

the printer can be restored to the default values.

- Change status button
 Select ONLINE or OFFLINE from the combo box to change the printer status.
- 5. Play video

Help videos built into the printer can be played on the printer. Click the "GetList" button to display the list of playable videos in the combo box. Select a video, and click the Play button to play it.

 Last print image acquisition
 Acquire the image data of the last-printed label with the printer. The acquired data can be downloaded from the list beneath the button.



SATO Online Services

7. Hex dump acquisition

Clicking the Start hex dump button will start to acquire the Hex dump (file containing the issue direction data from PC, etc. to printer expressed hexadecimally). Clicking the End hex dump button will upload the Hex dump of the data printed during the period from Hex dump start to end, to the SOS system. The data uploaded to the system can be downloaded from the list.

8. Clone file operation

Upload the Clone file (file with the printer settings copied) from the PC or printer. By changing the clone type in the combo box, you can change the contents included in the Clone file to be uploaded.

- \cdot Type 1 Excl.LAN/WIFI/IP
 - Setting parameters except for network settings including IP address(*)
- \cdot Type 2 Incl.LAN/WIFI

Setting parameters except for IP address

- •Type 3 Incl.LAN/WIFI/IP
 - All setting parameters(*)
- * Supported in SOS agent V3 and later.

Each icon in the file display area represents the following operations.

 ∞ icon Click this icon to switch enable/disable of Clone file sharing within the same installation location.

 \checkmark icon Click this icon to apply the Clone file to this printer.

Licon Download the Clone file.





8-6. Settings tab

The setting information list of the SOS network connection device is acquired when the Settings tab is displayed.

Panel			Edit device infor
LMDevice status Location Device name CL6NX Model name CL6NX 305dpi Device status POWERSAVE Last error - Last update 2018-09-11 19:15:51	Life counter 0.2 km Total cuts 18 times Label - replacement Ribbon - replacement Battery -	l∠Parts replacement timing Print head - Platen roller - Cutter - Battery -	No Image
	1		
evice details Log Control p • View Edit	ane		2 Fold Latert s
	ane		2
● View ● Edit	Settings		2
View Edit Shortcut Adjustments	Offset 0		2
View Edit Shortcut Adjustments			Fold Text s

- Edit/View switching button Switch between the View mode and Edit mode. When changing the setting parameters of the printer on the SOS system, select the Edit mode.
- 2. Display all button

This button expands all the folded items. Pressing the button again will return to the previous state.

- Text file output of setting value button
 The setting parameters are downloaded as a text file in a batch.
- 4. Setting fields

View the setting parameters of the printer and edit them on the SOS system. For details of each setting parameter, see the manual corresponding to your printer.



8-7. Maintenance history tab

Maintenance log of registered devices can be viewed. (***This feature will be enabled sequentially as soon as**

the system information is integrated.)

50 v items displayed							ownload Q Search	
Maintenance work classification name $\downarrow\uparrow$	Maintenance reception date 11	Serial number $\downarrow\uparrow$	Installation date $\downarrow\uparrow$	Contract number $\downarrow\uparrow$	Contract name $\downarrow\uparrow$	Total counter $\downarrow\uparrow$	Repair phenomenon $\downarrow\uparrow$	Repair location
設置・移設	2021-12-23	6C000515	2016-07-08	2068655	フルサポートパック	6430		
設置・移設	2021-12-21	6C000515	2016-07-08	2068655	フルサポートパック	6370		
設置・移設	2021-12-21	6C000515	2016-07-08	2068655	フルサポートパック	6340		
設置・移設	2021-12-20	6C000515	2016-07-08	2068655	フルサポートパック	6310		
設置・移設	2021-12-19	6C000515	2016-07-08	2068655	フルサポートパック	6280		
設置・移設	2021-12-18	6C000515	2016-07-08	2068655	フルサポートパック	6250		
設置・移設	2021-12-18	6C000515	2016-07-08	2068655	フルサポートパック	6220		

1. Maintenance history list

Maintenance history for the number of items displayed will be shown.

Viewable items in Maintenance history list are as follows: Maintenance work classification name, Maintenance reception date, Serial number, Installation date, Contract number, Contract name, Total counter, Repair phenomenon, Repair location, Installation location name, Installation location address, Spare parts name, Spare parts quantity

2. Download button

Maintenance history can be downloaded via CSV file.

Maintenance log of all devices can be downloaded via CSV file in a batch from [Maintenance history] of "Device list."





9. How To Contact Us

User name	User SATO
E-mail	hidenobu.machida@sato-global.com
Contact us*	
Device name	
Subject*	
Description-	

If there is any inquire, Press the contact us from the SOS main menu and fill in all fields

10. **FAQ**

10-1. If you forget your login password

Set your password again following the instructions of the login information section in this manual. Our company cannot confirm your password for security reasons.

10-2. Some menus or buttons described in this manual are not displayed.

Some of the functions are provided only to the customers who have made a maintenance support agreement on the printer

with our company.

For details of the maintenance support, please feel free to contact our support desk described at the end of this manual.

10-3. Some functions do not work even if operated exactly as the manual says.

Errors may occur temporarily depending on the network status, etc. Perform re-operation.

Also, depending on the type of printer and firmware version, some functions such as the screen shot capture function on the Device details screen may not be supported. For details, please feel free to contact our support desk.

10-4. Cannot register or edit the device.

Depending on the assigned SOS user authority, screen viewing is only permitted. Please ask the person in charge of SOS user management in your company.





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For inquires by phone: Please contact local SATO office http://www.satoworldwide.com/sato-group/global-network.aspx

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