

USER'S MANUAL

SMOOSS-i



STAR MICRONICS CO., LTD.

Machine Tools Division

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SMOOSS-i

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Introduction

Thank you very much for purchasing “SMOOSS-i”.

This manual explains the minimum method necessary for operating this item on the server.

Please refer to the manuals of each manufacturer issue for details on hardware (main body of the server), basic software (OS), and the initialization of the server.

Please read and understand the contents of this user’s manual thoroughly before using “SMOOSS-i”.

We kindly ask for your long and continued use.

NOTICE



- You can use SMOOSS-i on the server without password for 90 days after installation.
- For continuous use, you need to get the password for each server to be used.
- To get password, copy and fill in “SMOOSS-i : Password Request Sheet” on the next page then send it to STAR MICRONICS or your dealer by e-mail.

SMOOSS-i Password Request Sheet

Please fill in fields below and send to STAR MICRONICS or your dealer by e-mail.

(Password Request Sheet: ¥PasswordRequestSheet¥English¥PasswordRequestSheetE.pdf)

Note) • Please acknowledge beforehand that once the password is issued, the software cannot be returned regardless of any reasons.

Date								
Your company name								
e-mail address								
Operating System	<input type="radio"/> Windows Server 2019 <input type="radio"/> Windows Server 2016 <input type="radio"/> Windows 11 Pro <input type="radio"/> Windows 10 Pro 64bit <input type="radio"/> Other ()							
Manufacturer and model of the Server								
Version of SMOOSS-i								
Serial number of SMOOSS-i								
No.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	<input type="text"/>
ID code (Refer to the section 3-3.)								
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[illegible]

A support website for SMOOSS-i users

The Star Micronics home page (<http://star-m.jp/eng/>)

provides information that will prove useful when using the SMOOSS-i software, details on upgrades and a wide range of other information.

After accessing the Star Micronics homepage, click on

[Download Center] > [Automatic Lathes].

Then, enter the following user name and password to display the support page.

User name:	STARMONITOR
Password:	GREEN2020

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CHAPTER 1

Outline

1 Outline

1-1 General Specifications

Target machine	Machine tool manufactured by Star Micronics
Target CNC	<p>FANUC Series 16i/18i/21i-MODEL A (*1)(*2) FANUC Series 16i/18i/21i-MODEL B FANUC Series 30i/31i/32i-MODEL A FANUC Series 30i/31i/32i-MODEL B FANUC Series 0i-MODEL D FANUC Series 0i-MODEL F MITSUBISHI M70V(*3) MITSUBISHI M80(*3)</p> <p>• LAN cable wiring is necessary depending on machine type. Please inquire STAR MICRONICS in this case. • When Ethernet has already been used, SMOOSS-i cannot be used in some cases. Please inquire STAR MICRONICS in this case. *1. Necessary options differ depending on machine type and lot. Please inquire STAR MICRONICS to confirm. *2. Ethernet cannot be used depending on machine type and lot. Please inquire STAR MICRONICS in this case. When Ethernet cannot be used, SMOOSS-i is unavailable.</p>
Server operating environment	<p>Supported OS Windows Server® 2016 Windows Server® 2019 Windows Server® 2022 Windows Server® 2025 Windows® 10 Pro 64bit (*3) Windows® 11 Pro (*3) Only these Windows® operating system support SMOOSS-i. Hardware (*4)(*5) • CPU: Intel® Core™ i3 processor or higher. • Memory: 8GB or more. • Hard Drive: 500GB or more (RAID1 type recommended) • Disk Drive: Optical drive support read of CD-R (Used when installing software) • Display: 1280 × 1024 resolution or more • LAN interface: 100BASE-T or more</p> <p>*3. Processing speed can become slow due to function limiting of OS. *4. Achieved performance may differ depending on the type, capability or use condition of the server. *5. Functions of SMOOSS-i can affect operating speed of other applications, and vice versa.</p>

Corresponding client device	PC(Windows®) Supported OS Windows® 10 Windows® 11 Browser Google Chrome Microsoft Edge®
	• Display: 1920×1080 (Full HD) resolution or more is recommended.
	iPad® / iPad Air® / iPhone® (*6) Supported OS iOS 10 or onwards Browser Google Chrome Safari®
	Android tablet/ Smart phone (*6) Supported OS Android 6.0 or onwards Browser Google Chrome
Networking device	• Corresponding client devices should be prepared by users. *6. SMOOSS-i provides screens for PC/ tablet. When the screens cannot display within those devices or character size is small, please adjust by zooming in/Out or rotating screen.
	Ethernet cable Use shielded Category 5 twisted-pair cable (STP cable) to improve the resistance to electrical noise in an FA environment. • Recommended cable examples ·DTS5087C-4P (twisted wire) by Furukawa Electric Co., Ltd. ·F-4PFWMF (single-wire cable) by NISSEI ELECTRIC CO., LTD.
	LAN switch Use LAN switch for business. • Networking device and necessary peripheral equipment or related construction work should be provided by users. • Some networking devices does not equip a dustproof structure. Take oil mist countermeasures such as installing networking devices inside dustproof cabinet etc. In addition, select the available type of device with considering operating environment such as temperature.

1-2 Software

Specifications	Details	Chapter	Remarks
Monitoring	<ul style="list-style-type: none"> •Real time displaying for machine operation status. •Totaling display per group •Displaying production progress against the schedules (For improving visibility on large screen) •Displaying completion date and time •Tiled screen display 	4-4	
Dashboard	<ul style="list-style-type: none"> •Displaying details •Displaying machine history per day •Displaying tool life 	4-5	
History	<ul style="list-style-type: none"> •Displaying machine status history •Displaying alarms per generated number of times •Graphic displaying for processed results/production schedule •Displaying power consumptions 	4-6	
Production Schedule	<ul style="list-style-type: none"> •Setting/Displaying production schedule •Displaying schedules as Gantt charts 	4-7	
Operator History	<ul style="list-style-type: none"> •Input and preserve number of defective products. •Preservation of user's original work record 	4-8	
Remote Control	<ul style="list-style-type: none"> •Remote control to machines. 	4-9	
Web API	<ul style="list-style-type: none"> •Data access through the Web (REST) API 	4-11	
Notification	<ul style="list-style-type: none"> •Alarm generation is notified by E-mail •Notification by E-mail is sent when communication is disconnected with machine 	5-2	*1 *2
Back-up function for CNC data	<ul style="list-style-type: none"> • Back-up for machining program • Back-up for parameter data • Back-up for SRAM 	3-9	
Program I/O function	<ul style="list-style-type: none"> • Input and output of machining program • Display and edit of machining program contents • Access restriction for each user 	8-1 8-1 7-3	

*1. Environment for using E-mail is necessary.

*2. Internet connection is necessary to notify outside.

1-3 Precautions

- This product uses “PostgreSQL” for database software therefore installation on the same server as other product which using “PostgreSQL” and use this product together with it is impossible.
- This product use “IIS (Microsoft Internet Information Services)” as Web system.
For installation on the same server as other product which also using “IIS” and use this product together with it, inquire STAR MICRONICS.
- For this product, installing on exclusive server to use is recommended.

CHAPTER 2

Setting

2 Setting

2-1 Flow of setting work

Follow the procedure below to carry out setting work.

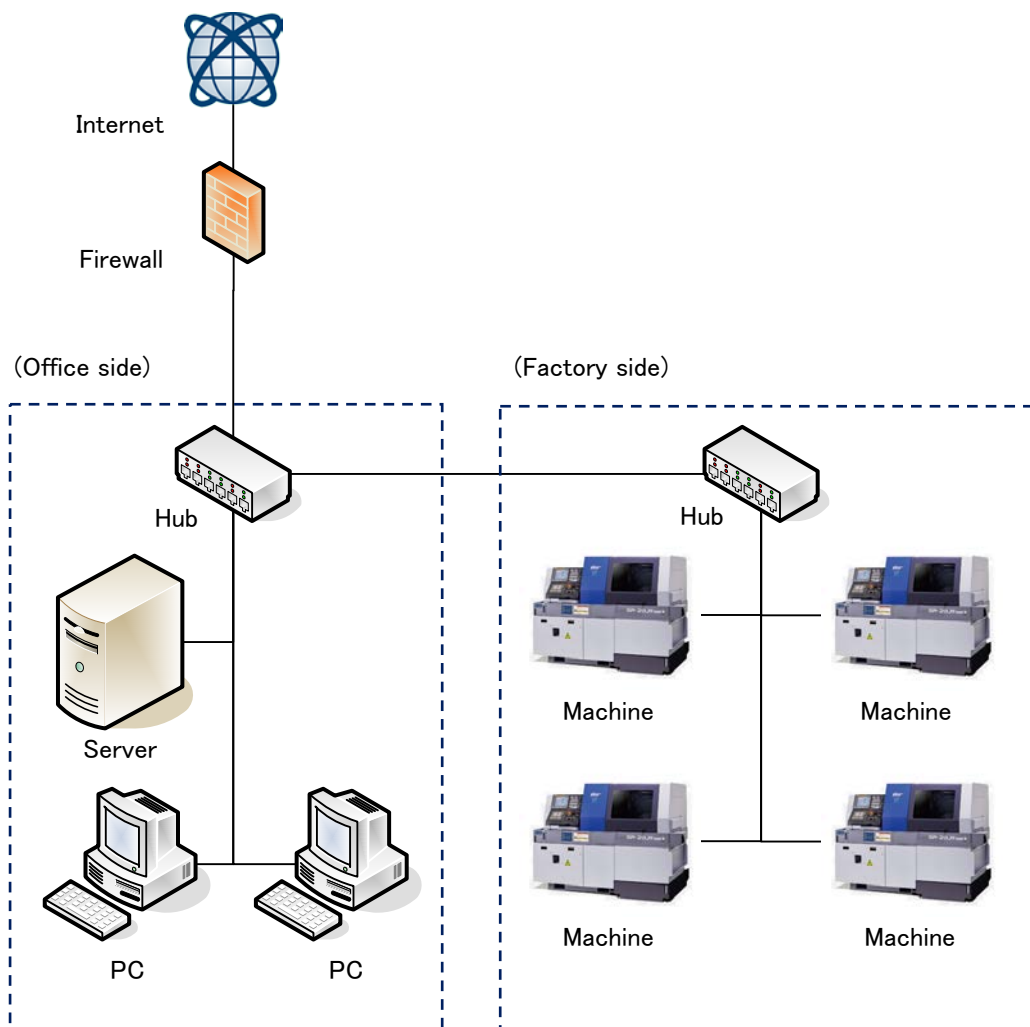
	Items	Contents	Chapter
1	Network construction	When network have not been constructed in factory and office, construct network. In addition, client devices should be prepared as necessary.	2-2
2	Cable connection	Connect network cable which has been prepared by the user to the machine side interface.	2-3
3	Setting for machine side CNC	Set network information to CNC of the machine	2-4
4	Basic setting for the server	Connect the server to the network then set concerning network. Refer to operation manual issued by each manufacture for the procedure.	---
5	Software installation	Install necessary software.	2-5
6	Setting for information collect application	Set up information collect application	3-8
7	Machine registration to information collect application	Register the machine to information collect application	3-7
8	Information collection start	Collects information from the machine	3-4
9	Create User	Create Login user.	7-3
10	Access for the top page (check)	Access to the top page with browser of client device to check the current machine status. If the status can be checked, setting is complete.	4-1

When using the Program I/O function, also perform the following tasks.

	Items	Contents	Chapter
10	Setting the Program I/O function	Use the Program I/O Function Management application to set up users and folders used for I/O.	7-1
11	Access for the top page (check)	Access to the top page of the Program Input/Output function with browser of the client device, the login screen will appear. If you can log in as the user you created, the setup process is complete.	8-1

2-2 Network construction

<System configuration>



When network have not been constructed in factory and office, construct network.

In addition, client devices should be prepared as necessary.

Networking device and necessary peripheral equipment or related construction work should be provided by users.

Please inquire of network system supervisor of your company about network configuration or environment setting system.

NOTICE



- Internet connection is necessary to notify outside by E-mail notification function.
- When using external mail server, Internet connection is also necessary.
- The length of Ethernet cable is maximum of 100m. Do not lengthen the cable for more than necessary.

REFER



- Refer to “1-1 General Specifications” and “1-3 Precautions” for precautions.

2-3 Cable connection

Check the interface of machine side. Interface is prepared as standard for following machine type.

Machine types which have LAN interface as standard (As of Oct. 2022)

- SB-16III
- SB-20RII/23RII
- SD-26
- SK-51
- SL-7/10
- SP-20/23
- SR-20JII
- SR-32JII
- SR-32JIII
- SR-38
- SR-38J
- SV-20R
- SX-38

LAN cable is necessary for machines other than above types. Please check with STAR MICRONICS.

For machine types which have interface as standard, follow the procedure below to connect the network cable and the interface of machine side.



WARNING

- Always carry out this work while the machine main breaker is OFF (●).

- 1) Turn off (●) the main power supply of the machine.
- 2) Open the cover of the control cabinet.
- 3) Put the network cable from cable entry to inside the control cabinet together with signal wire cable (black colored cable).
- 4) Insert the connector plug of the cable in the network cable adapter (*1) prepared inside the control cabinet.

(*1) The other side of the adapter is connected to the Ethernet connector of CNC by the network cable inside the control cabinet.

- 5) Close the cover of the control cabinet.

NOTICE





- For machine types with not interface, carry out same procedure above to connect after checking LAN connection interface according to the machine type.

2-4 CNC side setting

2-4-1 For CNC by FANUC

a) For FS 30i/ 31i/ 32i/ 0i (10.4" LCD)

Set by the following procedure.

- 1) Press the SYSTEM key  of function key.
- 2) Keep the menu key  of right end of soft keys pressed until following menu displays.



NOTICE



- If Multi-function Ethernet is enabled, following menu will be displayed.



If the network cable is connected to the Multi-function Ethernet (connector [CD38B]), select the soft key [ETHERNET] before making the subsequent settings.

If [ETHERNET] is selected, [MULTI-FUNC ETHER] will appear at the top of the screen thereafter.

COMMON: SETTING [MULTI-FUNC ETHER]

If the network cable is connected to the Embedded Ethernet (connector [CD38A]), follow the instructions from 3) onward.

- 3) Press the soft key [EMBED PORT] to display following screen.

In the case that data have already been registered, its contents display.

COMMON: SETTING [EMBEDDED]	
BASIC 1 / 2	
MAC ADDRESS	00E0E42B2C95
IP ADDRESS	192.168. .
SUBNET MASK	255.255. .
ROUTER IP ADDRESS	192.168. .
DHCP CLIENT	0
AVAILABLE DEVICE	EMBEDDED
A>_	
MDI *****	10:25:11 PATH1
COMMON	FOCAS2
FTP TRANS	(OPRT) +

4) AVAILABLE DEVICE setting

Set AVAILABLE DEVICE as “EMBEDDED”. When “PCMCIA” is set, carry out following steps to change.

(Steps)

Press the soft key [(OPRT)] to display following menu.



Press soft key [EMB/PCMCIA] then press [EXECUTE].

NOTICE



- [AVAILABLE DEVICE] is not displayed on the Multi-function Ethernet setup screen.

5) Input/ update the data with using MDI key and soft key.

Setting items on common screen.

Items	Contents
IP ADDRESS	Specify the IP address of the CNC E.g.) 192.168.0.1
SUBNET MASK	Specify a mask address for the IP address of the network. E.g.) 255.255.255.0
ROUTER IP ADDRESS	Set IP address of router if network is with router. E.g.) 192.168.0.254
DHCP CLIENT	Setting with zero is necessary, only if this item displays.

NOTICE



- If there is anything unclear with contents, be sure to check with network supervisor of your company before setting. If there is a mistake in these settings, network error etc. can occur in whole network.
- If Multi-function Ethernet is enabled, set the IP addresses of the Embedded port and Multi-function Ethernet to different addresses, or leave unused functions blank.

Press soft key [FOCAS2] to display following screen.

Settings on FOCAS2/ETHERNET screen

Items	Contents
PORT NUMBER(TCP)	Set the port No. for this application. Input range is from 5001 to 65535. Set 8193 if there is no problem.
PORT NUMBER(UDP)	Set with zero.
TIME INTERVAL	Set with zero.

6) Restart

If any setting is changed, carry out restart of Ethernet function.

(Steps)



Press soft key [(OPRT)] to display following menu.

Press soft key [RSTART] then press soft key [EXECUTE].

(If soft key [RSTART] does not display, restart the machine)

b) For FS 0i (8.4" LCD)

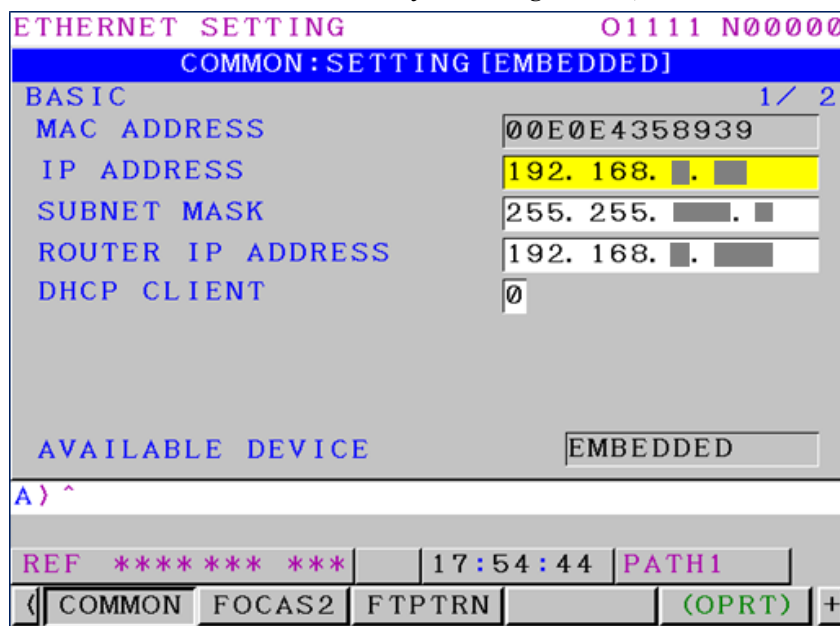
Set by the following procedure

- 1) Press the SYSTEM key  of function key.
- 2) Keep the menu key  of right end of soft keys pressed until following menu displays.



- 3) Press the soft key [EMBED] to display following screen.

In the case that data have already been registered, its contents display.



- 4) AVAILABLE DEVICE setting

Set AVAILABLE DEVICE as "EMBEDDED". When "PCMCIA" is set, carry out following steps to change.

(Steps)

Press the soft key [(OPRT)] to display following menu.



Press soft key [EMB/PCMCIA] then press [EXECUTE].

5) Input/ update the data with using MDI key and soft key.

Refer to “a) For FS 30i/ 31i/ 32i/ Oi (10.4” LCD)” on setting items and contents.

Press soft key [FOCAS2] to display following screen.

ETHERNET SETTING		O1111 N00000	
FOCAS2/ETHERNET:SET [EMBEDDED]			
BASIC			
PORT NUMBER (TCP)		8193	
PORT NUMBER (UDP)		0	
TIME INTERVAL		0	
AVAILABLE DEVICE		EMBEDDED	
A) ^			
REF	*****	17:55:53	PATH1
{	COMMON	FOCAS2	FTPTRN
			(OPRT)
			+

Refer to “a) For FS 30i/ 31i/ 32i/ Oi (10.4” LCD)” on setting items and contents.

6) Restart

If any setting is changed, carry out restart of Ethernet function.

(Steps)

Press soft key [(OPRT)] to display following menu.



{		KEYINP	RSTART	EM/PCM	INPUT	+
---	--	--------	--------	--------	-------	---

Press soft key [RSTART] then press soft key [EXECUTE].

(If soft key [RSTART] does not display, restart the machine)

c) For FS 16i/ 18i/ 21i

Set by the following procedure

- 1) Press the SYSTEM key  of function key.
- 2) Keep the menu key  of right end of soft keys pressed until [ETHPRM] displays.
- 3) Press the soft key [ETHPRM].

For 16i-B/ 18i-B/ 21i-B

Check that “EMBEDDED PORT” displays as “AVAILABLE ETHERNET”.

If “PCMCIA” displays, carry out following steps to change.

(Steps)

Press soft keys in the order of [SWITCH] → [EMBEDD] → [EXEC].

Press the soft key [EMBEDD] on the screen which displays “EMBEDDED PORT” as “AVAILABLE ETHERNET”.

Following screen displays.

In the case that data have already been registered, its contents display.

ETHERNET PARAMETER	
PAGE: 1/ 2	
MAC ADDRESS	080019023161
NUMBER OF SCREENS	14
MAXIMUM PATH	2
HDD EXISTENCE	0
IP ADDRESS	192. 168. .
SUBNET MASK	255. 255. .
ROUTER IP ADDRESS	192. 168. .

- 4) Input/ update the data with using MDI key and soft key.

Refer to “a) For FS 30i/ 31i/ 32i/ 0i (10.4” LCD)” on setting items and contents.

Screens are switchable with page up and page down keys.

ETHERNET PARAMETER	
PAGE: 2/ 2	
(DNC1/ETHERNET)	
PORT NUMBER(TCP)	8193
PORT NUMBER(UDP)	0
TIME INTERVAL	0



Refer to “a) For FS 30i/ 31i/ 32i/ 0i (10.4” LCD)” on setting items and contents.

- 5) Restart

If any setting is changed, carry out restart of the machine.


2-4-2 For CNC by MITSUBISHI

Set by the following procedure

- 1) Press the MAINT key .
- 2) Press the [Param] menu key.
- 3) Press the  menu changeover key until the [Ethernet param] operation menu key is displayed.
- 4) Press the [Ethernet param] operation menu key.

NOTE



- The cursor can also be moved by the following steps.
 1. Press the [Para No.search] operation menu key.
 2. Input parameter No.1926 with the data setting keys.
 3. Press the INPUT key .

No.	Name	Data	番号	名称	データ
1926	Global IP address	192.168. . .	1955	Intra Gateway	0.0.0.0
1927	Global Subnet mask	255.255. . .			
1928	Global Gateway	192.168. . .	11005	PC IP address	192.168.100.2
1934	Local IP address	192.168.100.1	9701	IP addr auto set	0
1935	Local Subnet mask	255.255.255.0	9706	Host No.	0
1937	NET1 IP Address	0.0.0.0	9711	Host1 host name	
1938	NET2 IP Address	0.0.0.0	9712	Host1 user name	
1939	NET3 IP Address	0.0.0.0	9713	Host1 password	
1940	NET4 IP Address	0.0.0.0	9714	Host1 directory	
1941	Local time compen	0	9715	Host1 host type	0
1953	Intra IP address	192.168.200.1	9716	Host1 Wrd pos:name	0
1954	Intra Subnet mask	255.255.255.0	9717	Host1 Wrd pos:size	0

192.168. . .

11:36

1BST 2BST

Mainte Param I/O

I/O param Ethernet param Link param Subpro stor Operate param Para No search Area copy Undo

5) Input/ update the data with using MDI key.

Parameter	Name	Contents
No.1926	Global IP address	Specify the IP address of the CNC E.g.) 192.168.0.1
No.1927	Global Subnet mask	Specify a mask address for the IP address of the network. E.g.) 255.255.255.0
No.1928	Global Gateway	Set IP address of gateway if network is with gateway. E.g.) 192.168.0.254

NOTICE



• If there is anything unclear with contents, be sure to check with network supervisor of your company before setting. If there is a mistake in these settings, network error etc. can occur throughout the network.

6) Restart

If you changed the setting, restart the machine.

2-5 Installing the software

2-5-1 Flow of installation

Carry out installation as following order.

	Items	Contents	Chapter
1	Installation of database software	Install PostgreSQL	2-5-2
2	Addition of Web system function	Add Web system (IIS) to server	2-5-3
3	Installation of libraries software	Libraries software	2-5-4 2-5-5 2-5-6
4	Installation of Web application software	Install Web application software	2-5-7
5	Installation of information collect software	Install information collect software	2-5-8
6	Installation of MITSUBISHI CNC communication software	Install MITSUBISHI CNC communication software. Install the software for communicating with Mitsubishi CNC.	2-5-9

NOTICE



- Be sure to sign in with the account of server supervisor or with that of user belongs to the Administrators group.
- Quit all other applications.

REFER

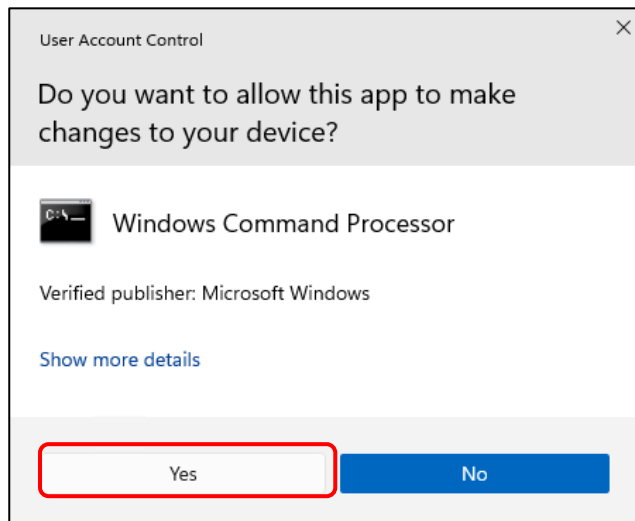


- Refer to “Chapter 6. Data backup” for detail on database backup software.

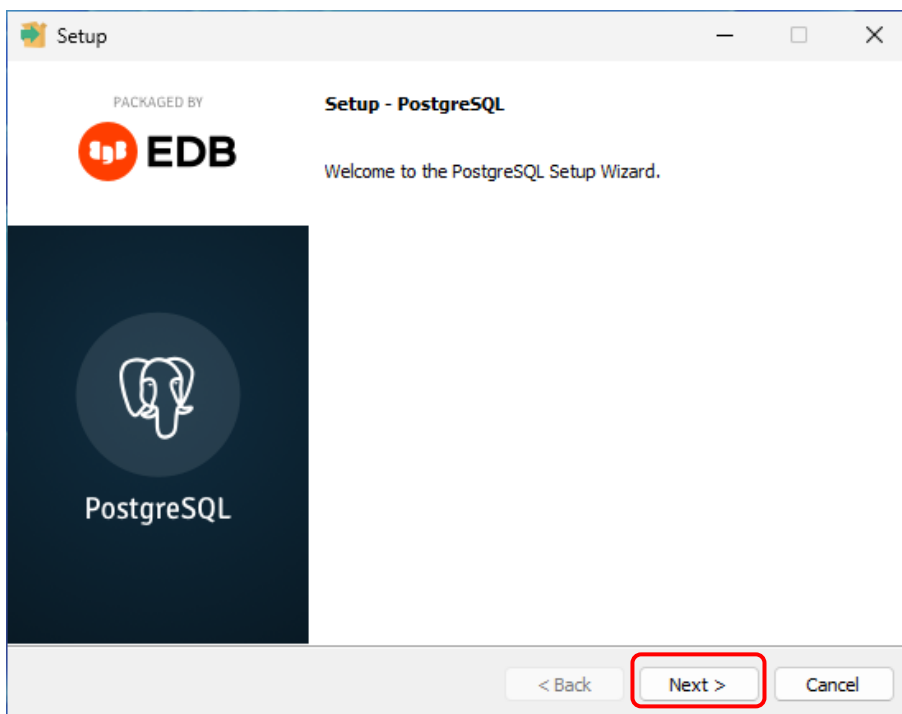
2-5-2 Installation of database software

- 1) Display files of “PostgreSQL15” folder of installation disc by Windows Explorer.
- 2) Double click “setup.bat”.

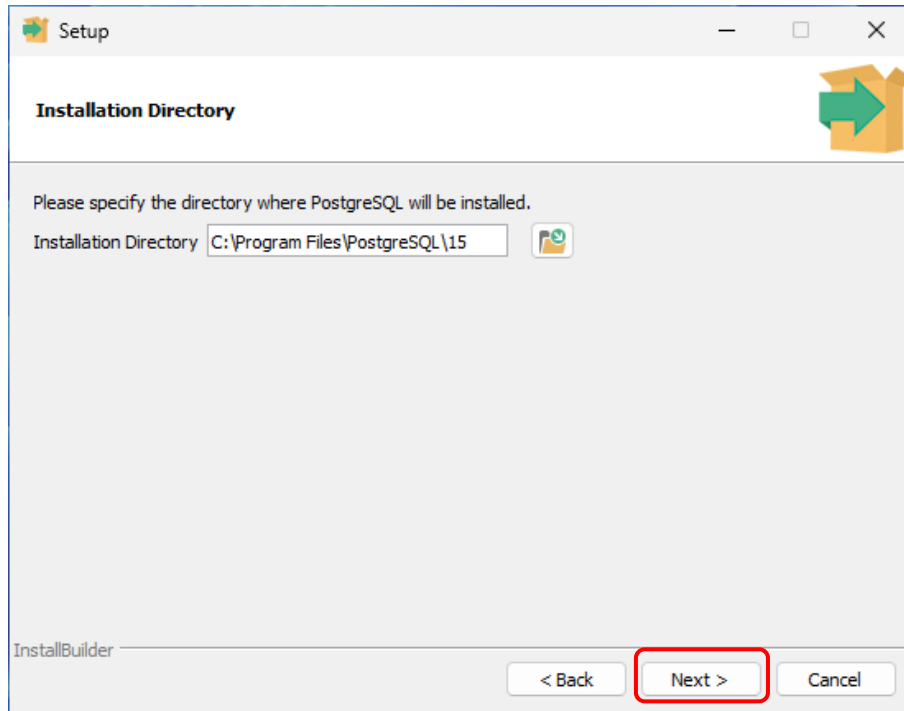
When User Account Control displays, click [Yes].



- 3) When following screen displays, click [Next >].



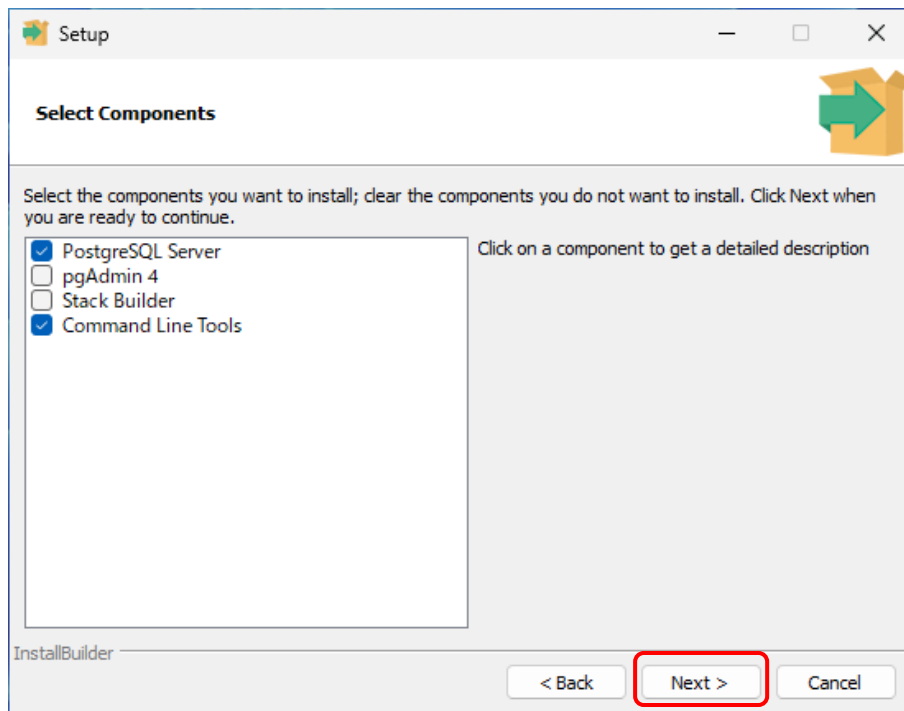
- 4) When following screen displays, click [Next >].



NOTICE • Do not change the directory to which the program will be installed



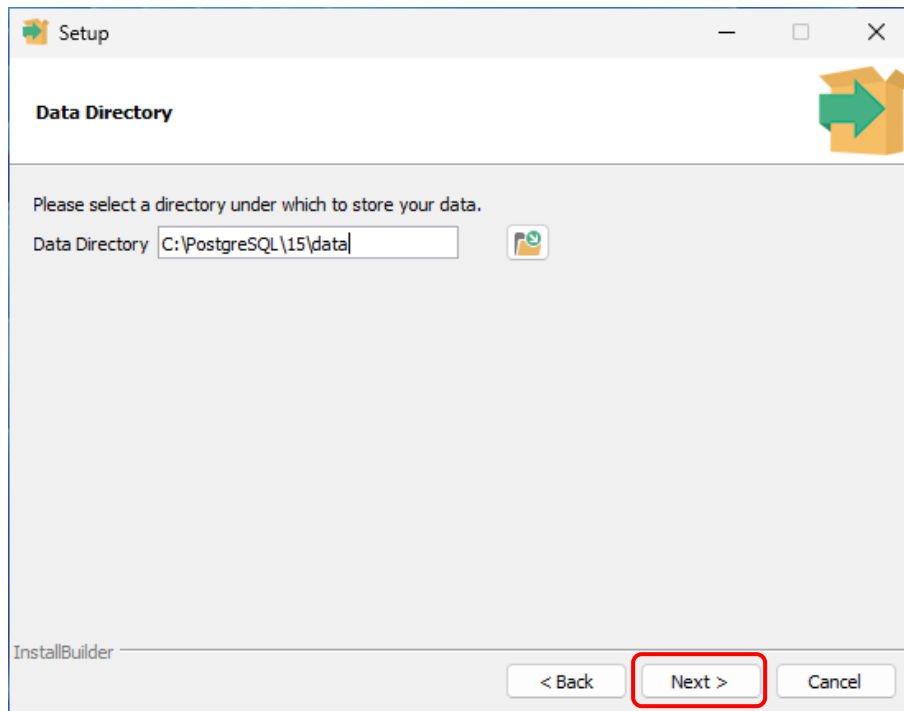
- 5) When following screen displays, click [Next >].



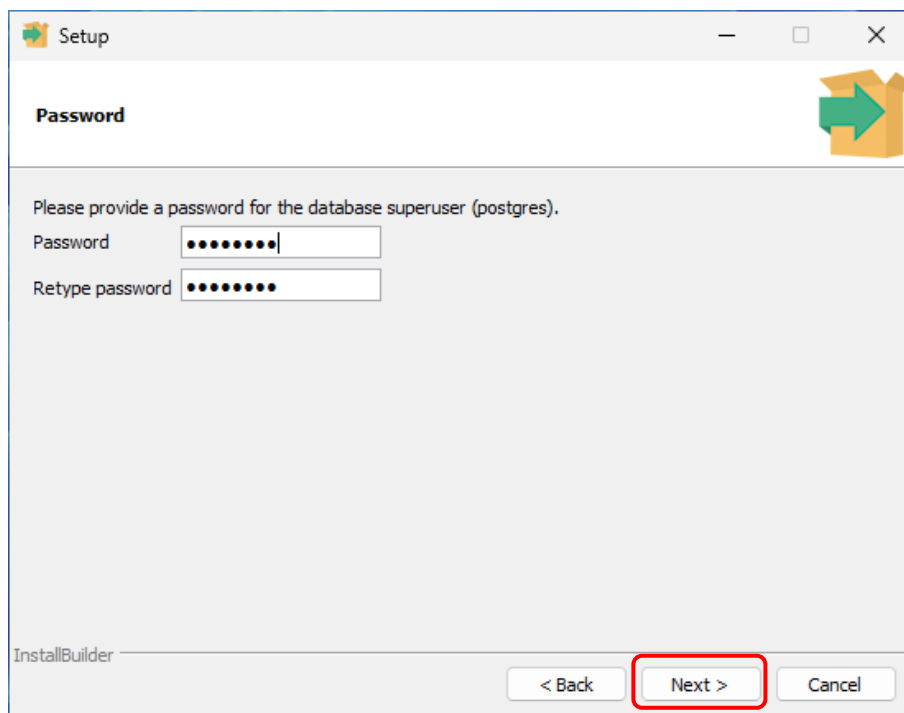
6) Data Directory to store data will be specified.

Default is “C:\PostgreSQL\15\data”.

If you would like to change, input the directory. Then click [Next >]



7) When following screen displays, click [Next >].

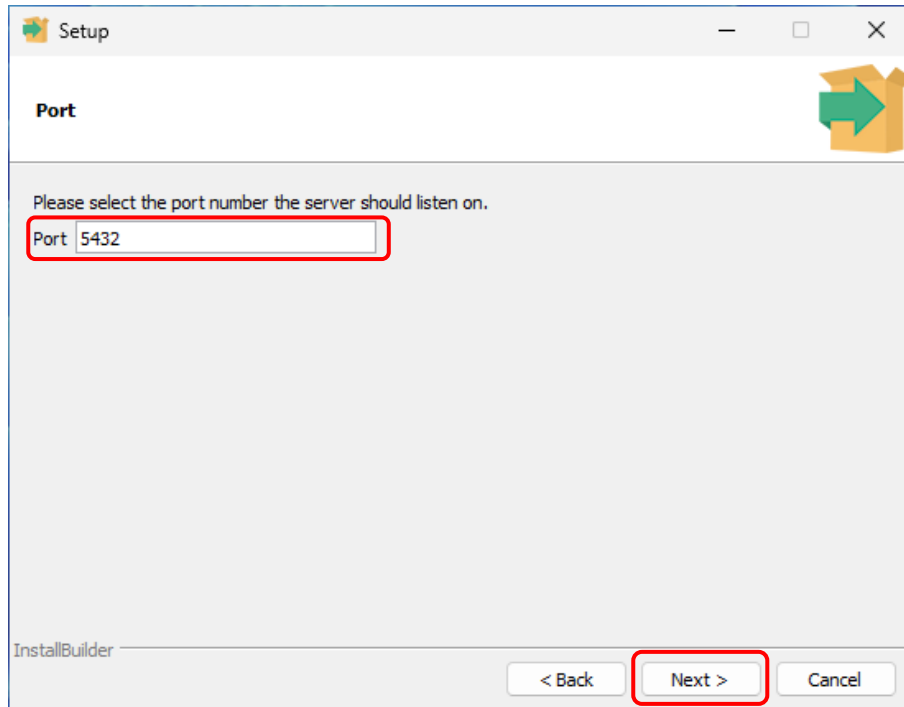


NOTICE



• If password was deleted, input “postgres” with small letter

8) When following screen displays, click [Next >].

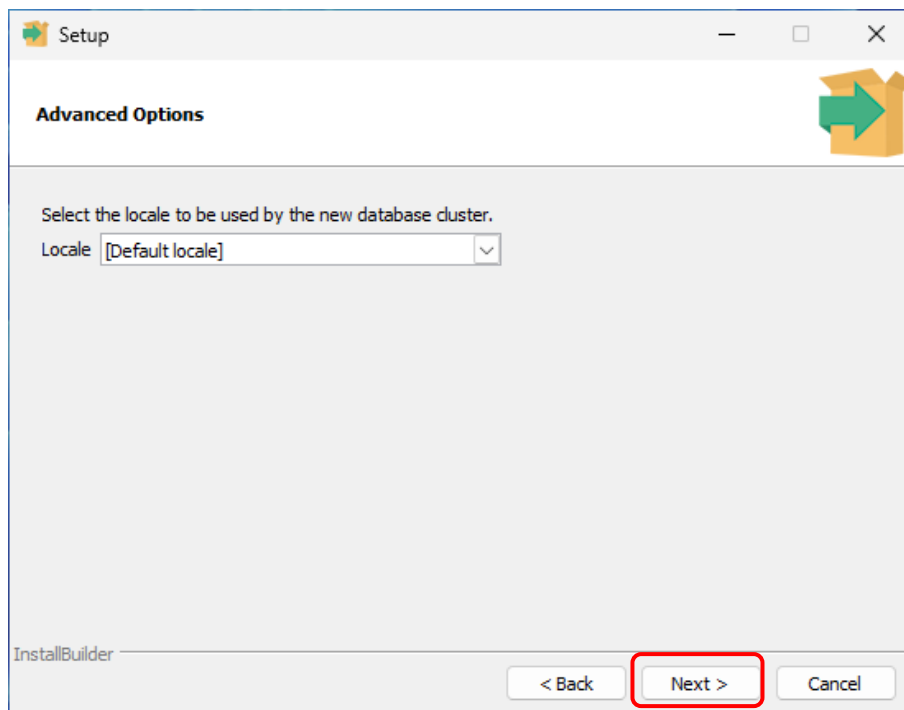


NOTICE

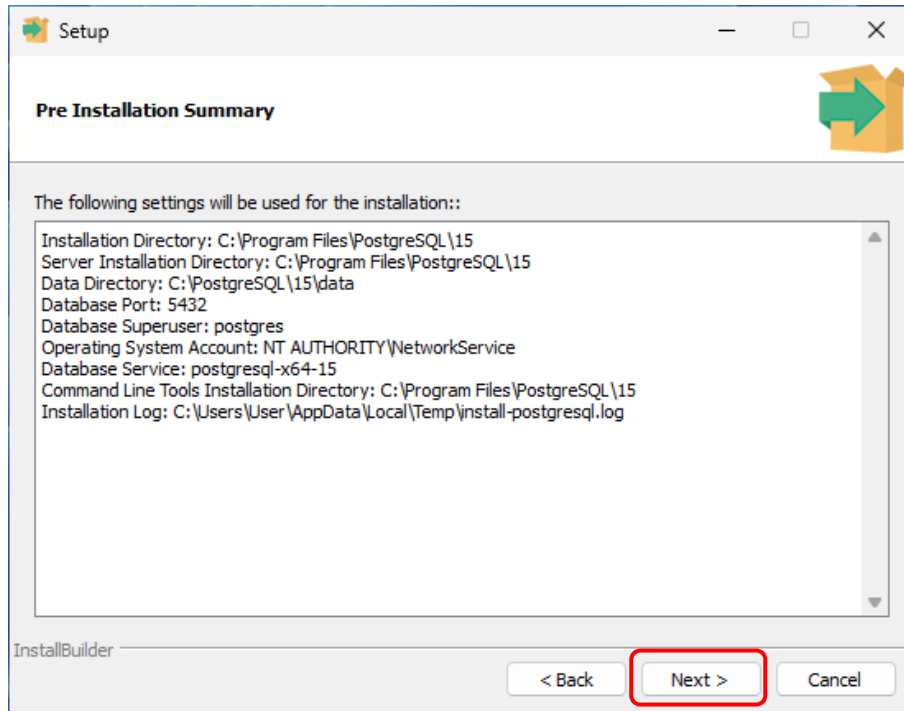


- Do not change the Port No. PostgreSQL cannot be installed correctly when Port No. is not “5432”.

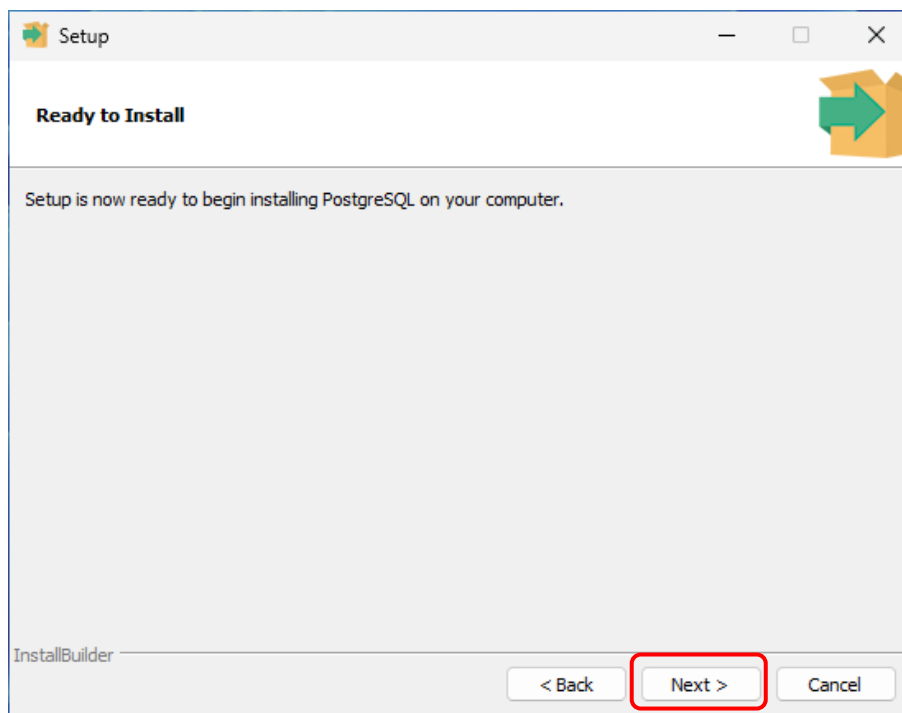
9) When following screen displays, click [Next >].



10) When following screen displays, click [Next >].

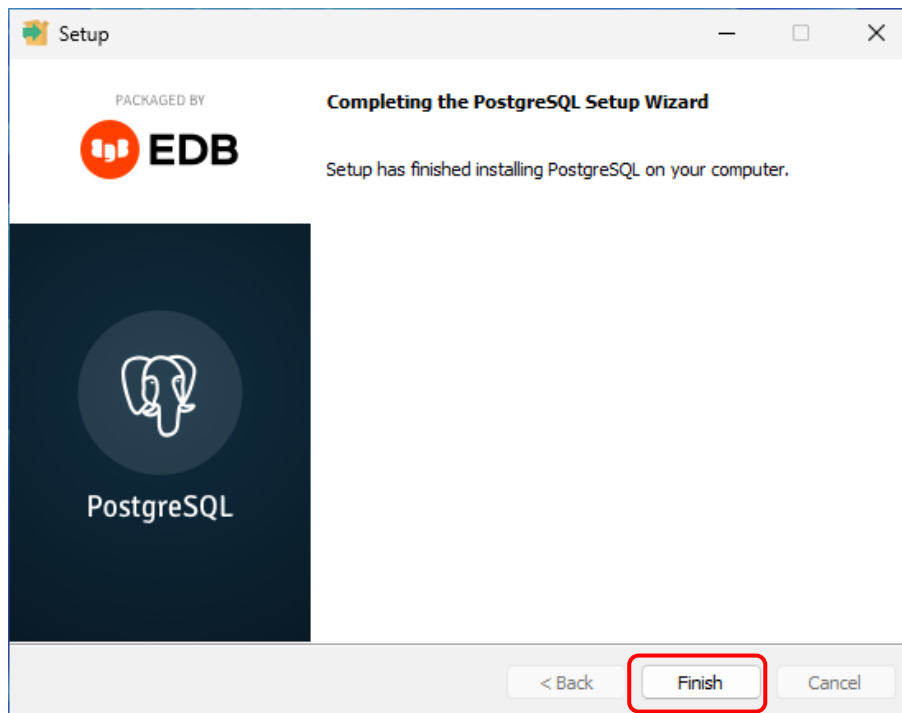


11) When following screen displays, click [Next >]. Installation starts.



12) When installation completes, following screen displays.

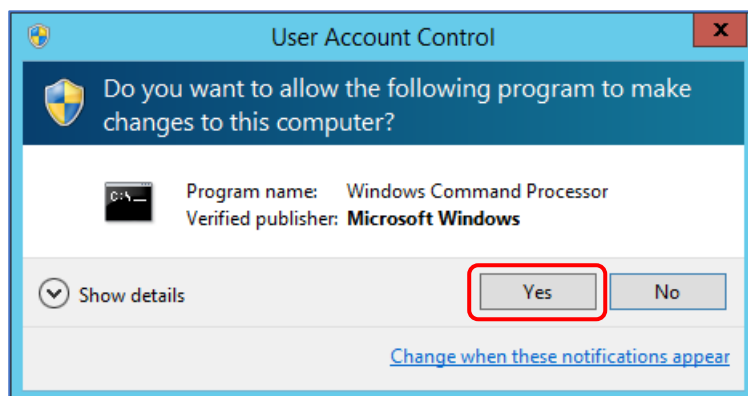
Click [Finish] to close Setup window.



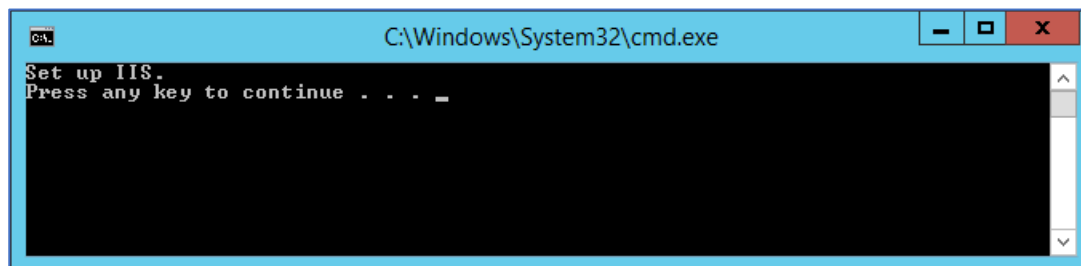
2-5-3 Addition of Web system function

- 1) Display files of “IIS” folder of installation disc by Windows Explorer.
- 2) Double click “setup.bat”.

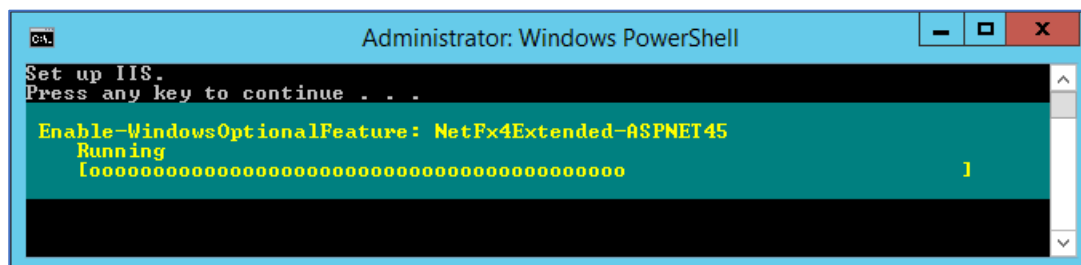
When User Account Control displays, click [Yes]



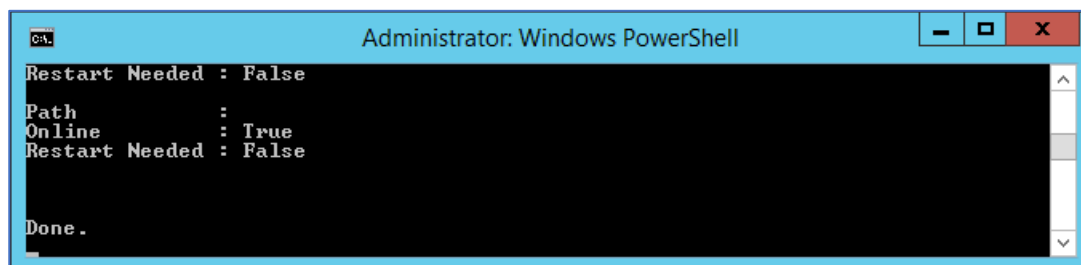
- 3) When following screen displays, press any key.



Following screen displays while setting.

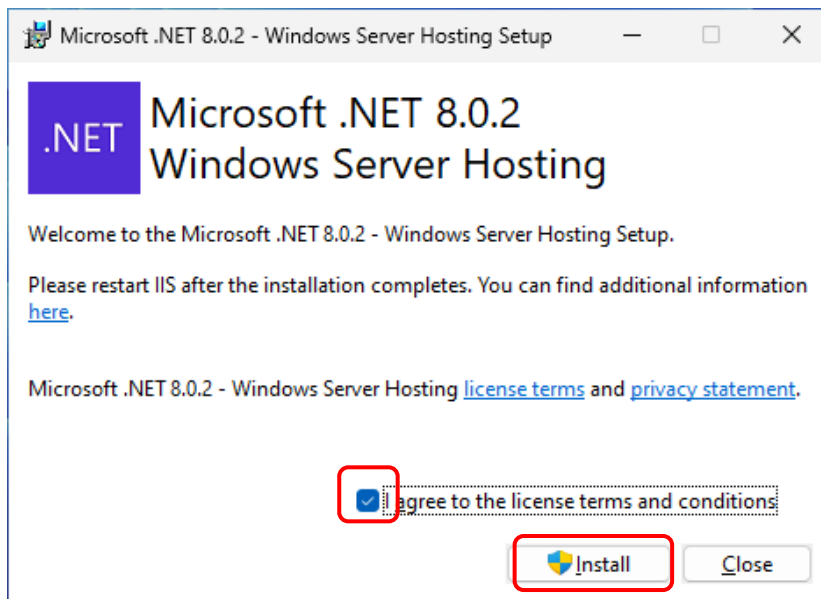


- 4) When “Done.” is displays, setting completes. Click any key to close the window.

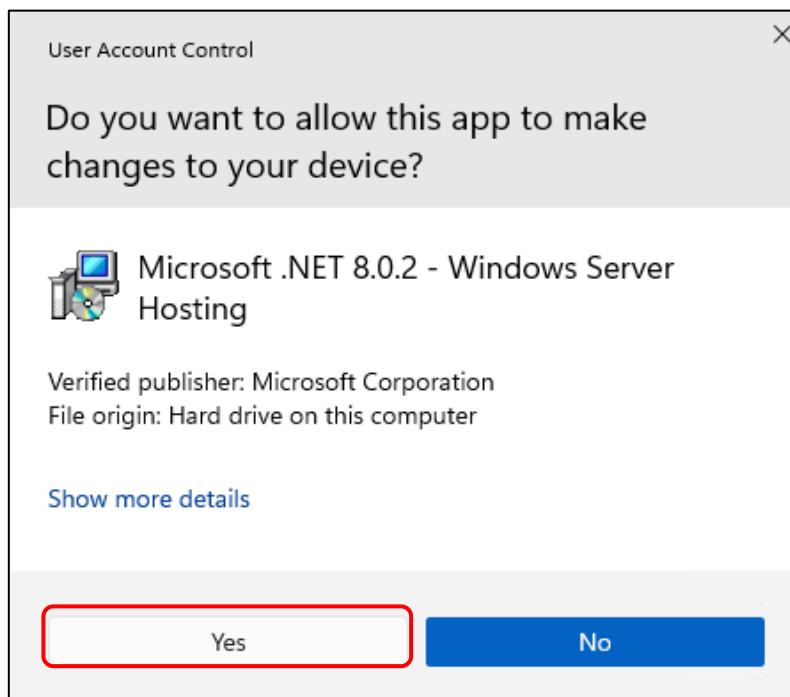


2-5-4 Installation of libraries software (.NET8)

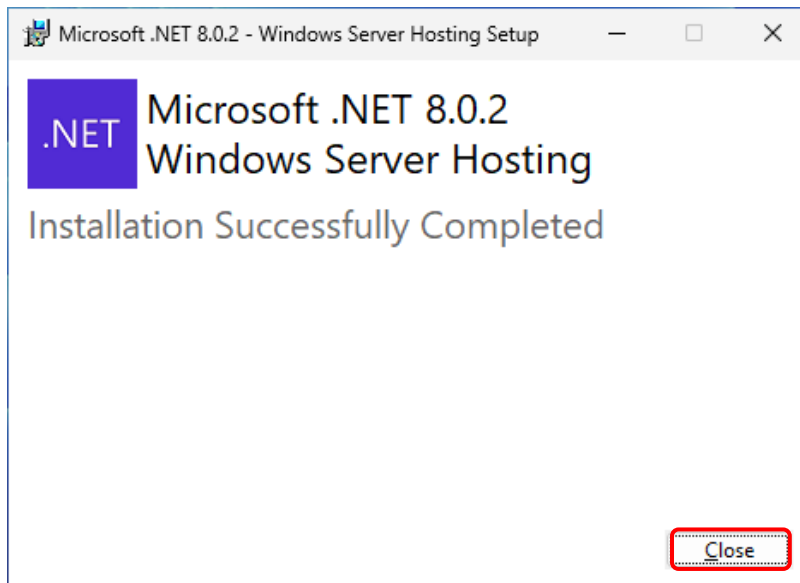
- 1) Display files of “NET 8” folder of installation disc by Windows Explorer.
- 2) Double click “dotnet-hosting-8.0.2-win.exe”.
- 3) Check “I agree to ...” and click “Install”.



- 4) When User Account Control displays, click [Yes].

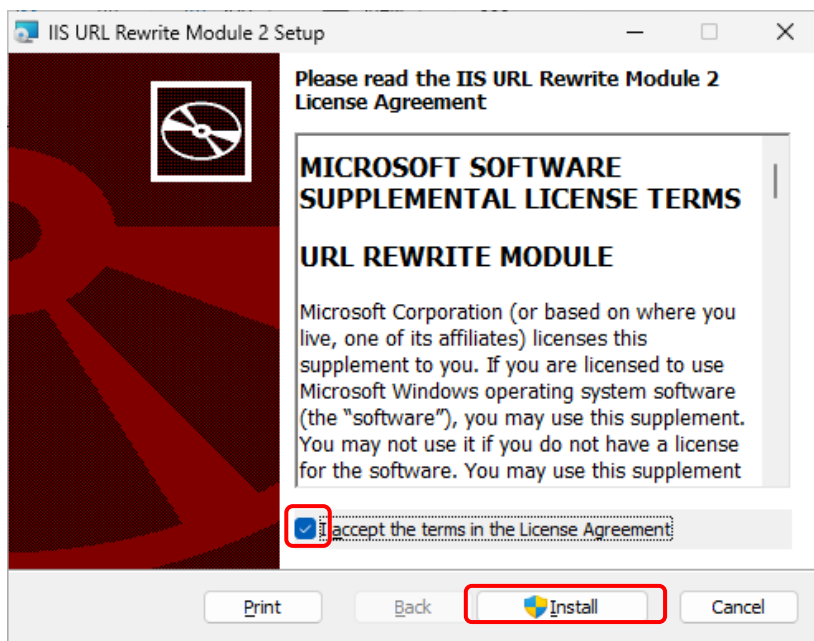


- 5) When installation completes, following screen displays.
Click [Finish] to close Setup window.

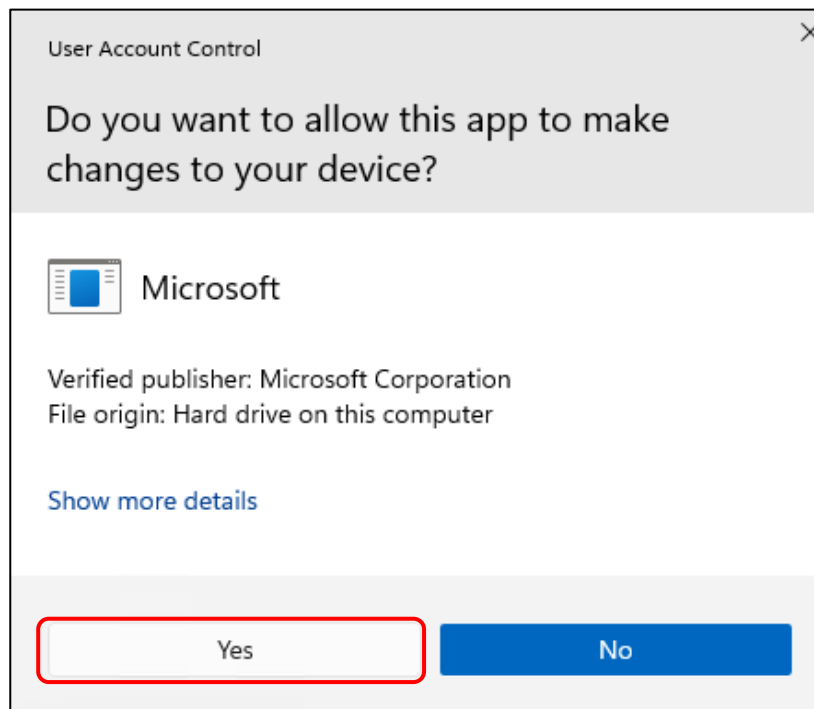


2-5-5 Installation of libraries software (Rewrite Module)

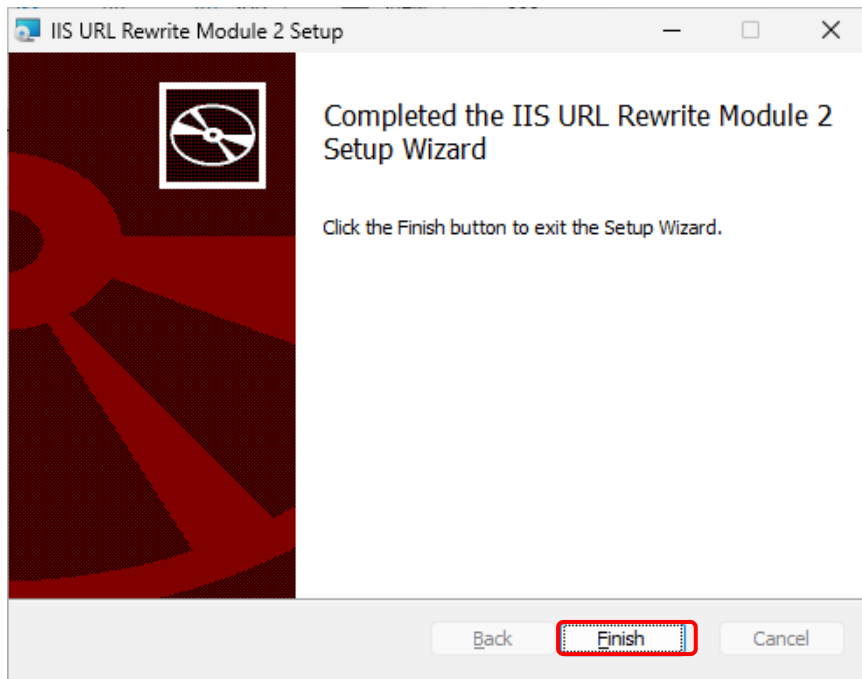
- 1) Display files of “RewriteModule” folder of installation disc by Windows Explorer.
- 2) Double click “rewrite_amd64_en-US.msi” in “en” folder.
- 3) Check “I accept the terms ...” and click “Install”.



- 4) When User Account Control displays, click [Yes].

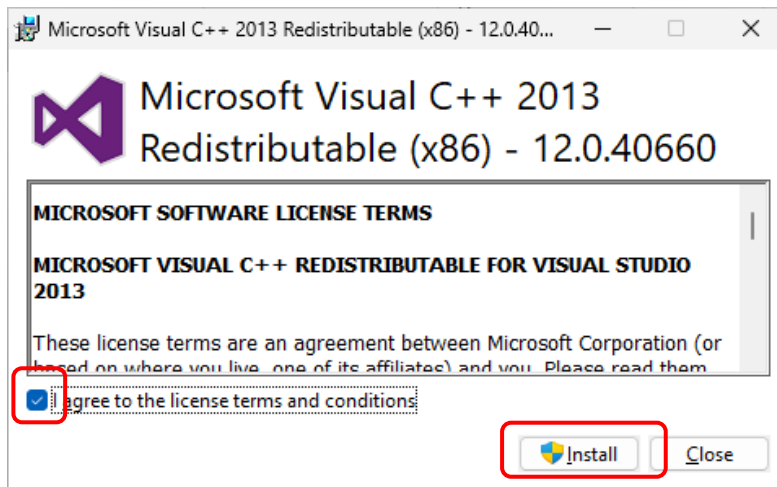


- 5) When installation completes, following screen displays.
Click [Finish] to close Setup window.

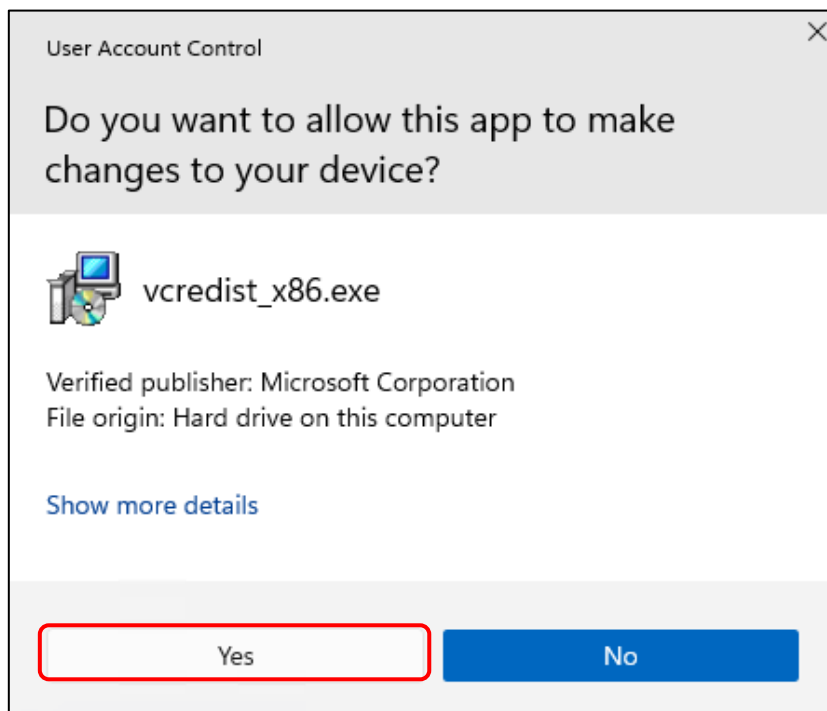


2-5-6 Installation of libraries software (VC++2013 Runtime)

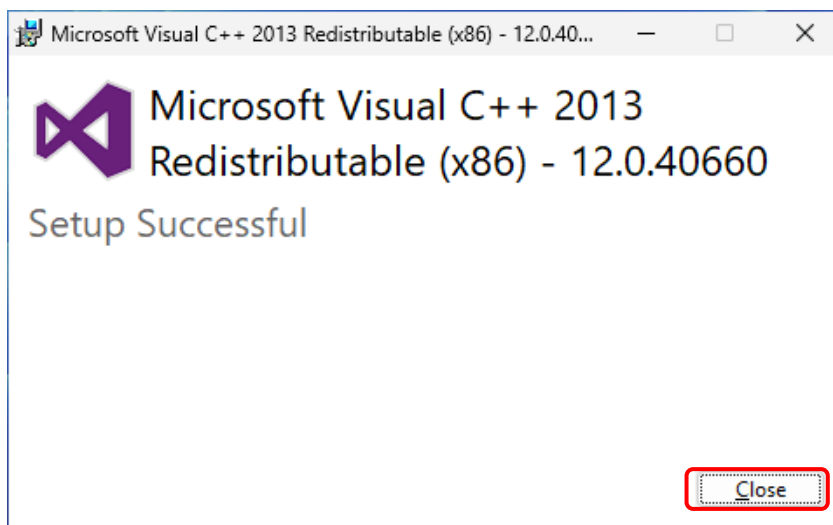
- 1) Display files of “VC++2013” folder of installation disc by Windows Explorer.
- 2) Double click “vcredist_x86.exe” in “en” folder.
Check “I agree to ...” and click “Install”.



- 3) When User Account Control displays, click [Yes].



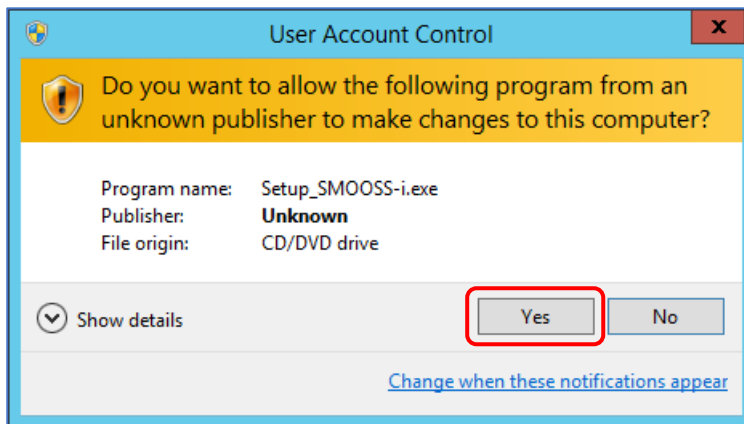
- 6) When installation completes, following screen displays.
Click [Close] to close Setup window.



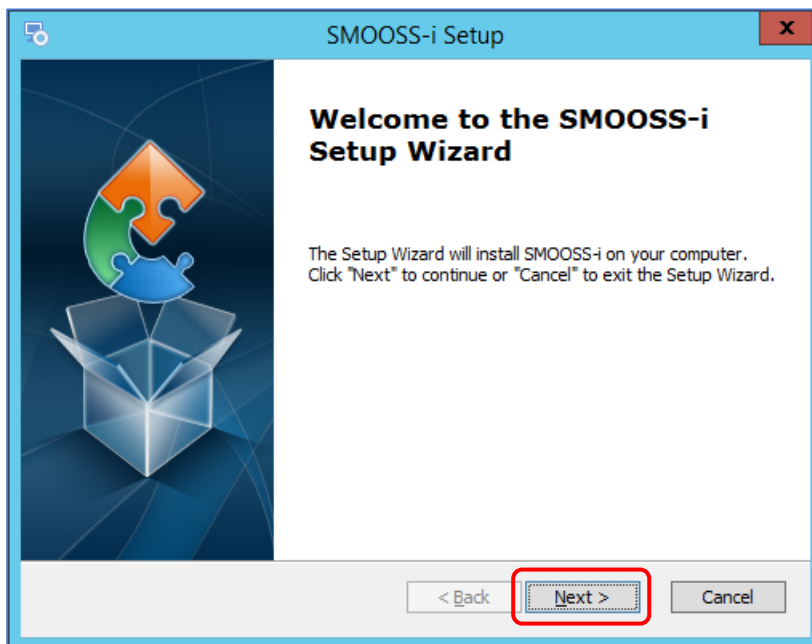
2-5-7 Installation of Web application software

- 1) Display files of “SMOOSS-i” folder of installation disc by Windows Explorer.
- 2) Double click “Setup_SMOOSS-i.exe”.

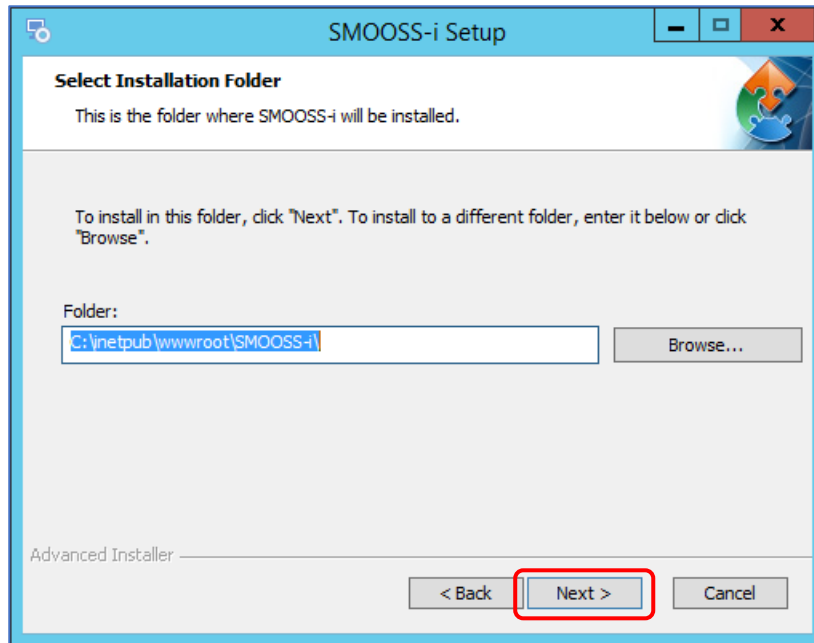
When User Account Control displays, click [Yes]



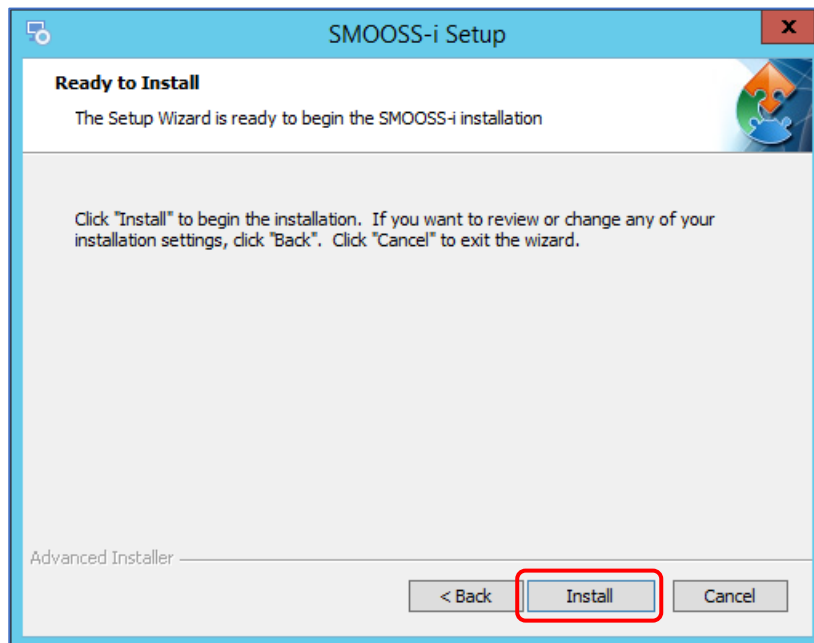
- 3) When following screen displays, click [Next >].



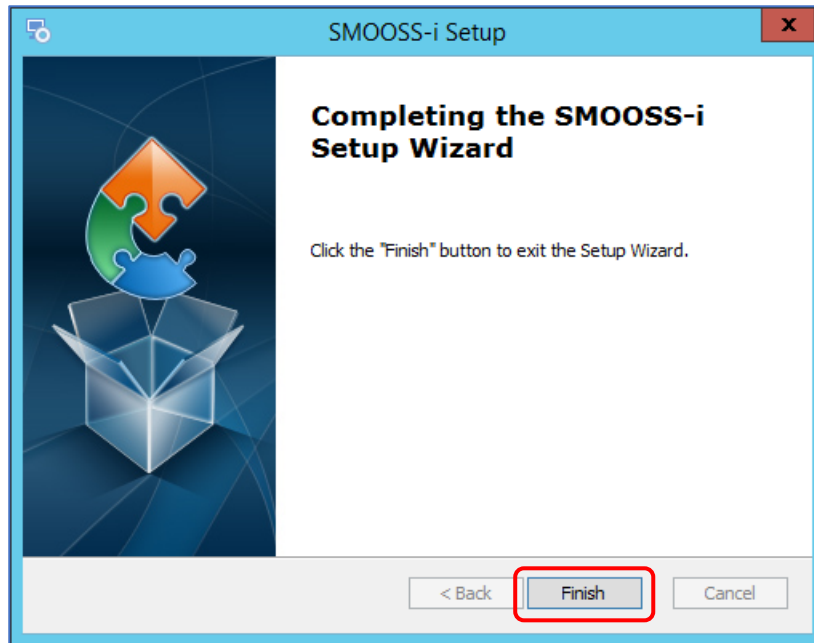
- 4) Installation Directory for the “SMOOSS-i” will be specified. Click [Next >].



- 5) When following screen displays, click [Install].



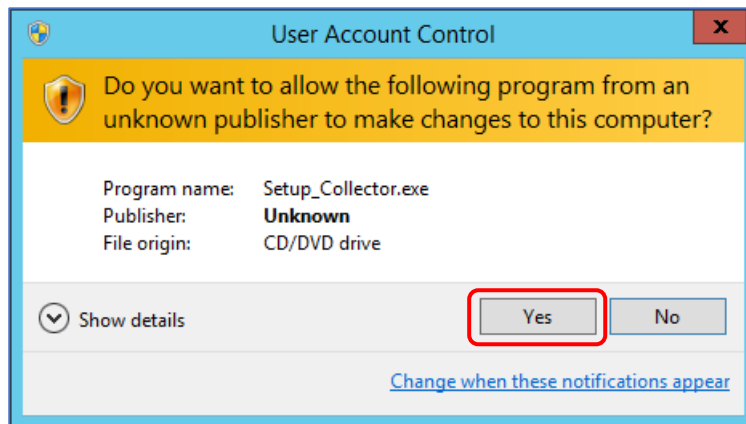
- 6) When installation completes, following screen displays. Click [Finish] to close Setup window.



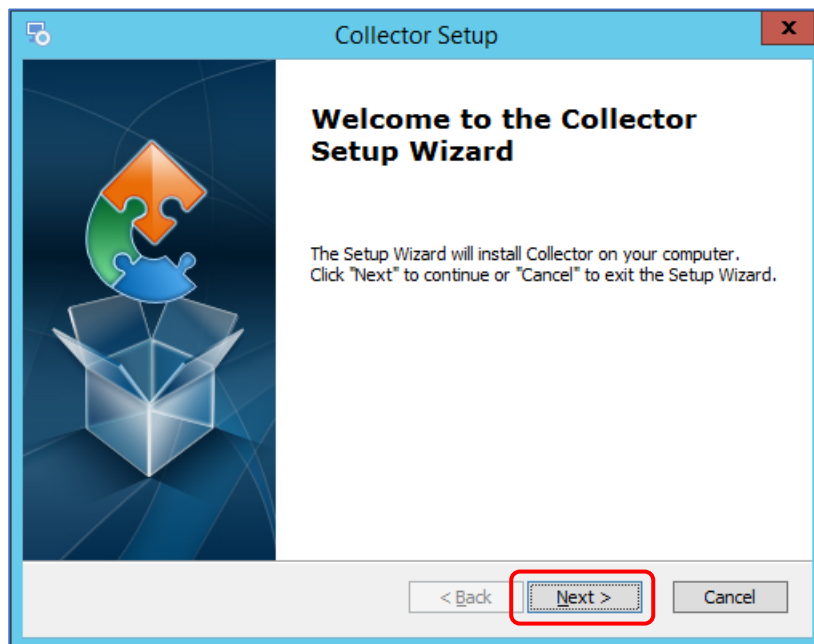
2-5-8 Installation of information collect software

- 1) Display files of “Collector” folder of installation disc by Windows Explorer.
- 2) Double click “Setup_ Collector.exe”.

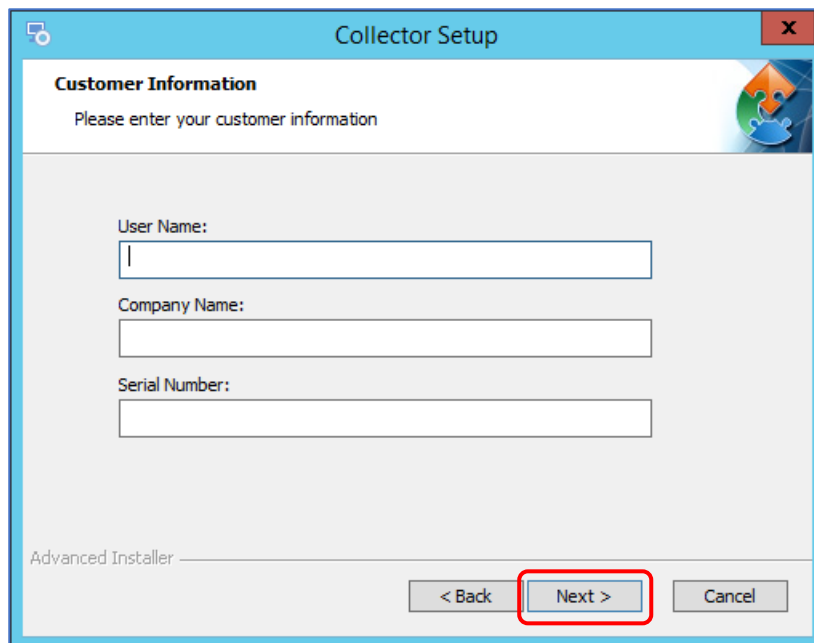
When User Account Control displays, click [Yes]



- 3) When following screen displays, click [Next >].

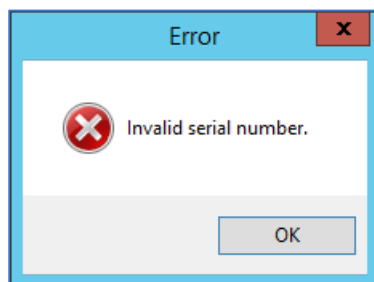


- 4) Enter User Name, Company Name and Serial Number. There is no problem even if User Name and Company Name is blank. Click [Next >] after entering.

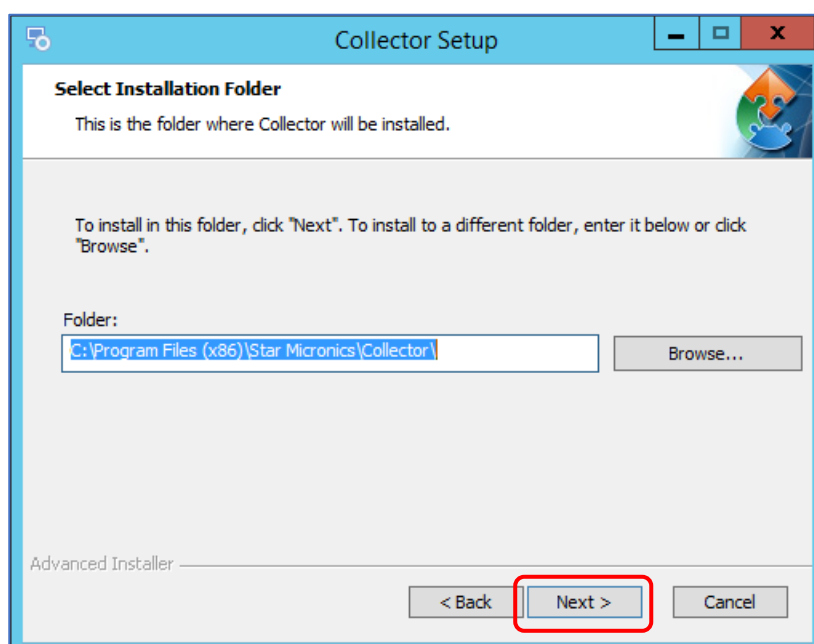


The screenshot shows the 'Collector Setup' window with the 'Customer Information' tab selected. The window has a blue title bar and a light gray background. At the top, it says 'Please enter your customer information'. Below this, there are three text input fields: 'User Name:', 'Company Name:', and 'Serial Number:'. The 'User Name' field contains a single character 'I'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

If wrong number is entered to serial number, following screen displays.

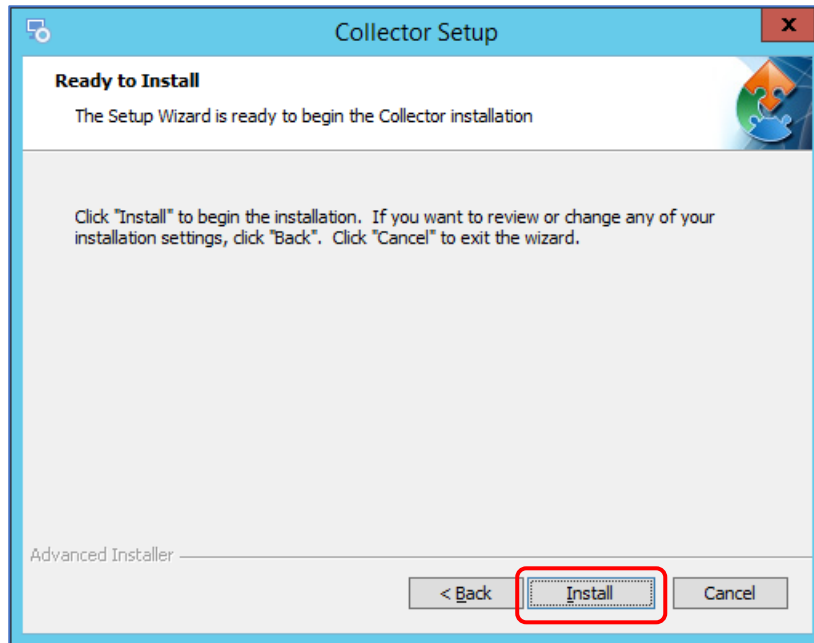


- 5) Installation Directory for the “Collector” will be specified. Click [Next >].

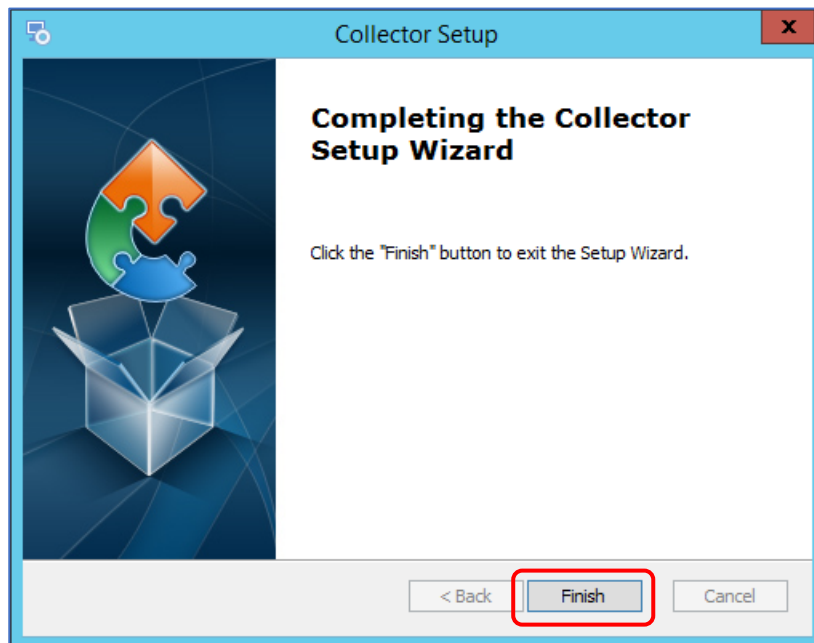


The screenshot shows the 'Collector Setup' window with the 'Select Installation Folder' tab selected. The window has a blue title bar and a light gray background. At the top, it says 'This is the folder where Collector will be installed.' Below this, there is a text input field labeled 'Folder:' containing the path 'C:\Program Files (x86)\Star Micronics\Collector'. To the right of the text input field is a 'Browse...' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

- 6) When following screen displays, click [Install].



- 7) When installation completes, following screen displays. Click [Finish] to close Setup window.



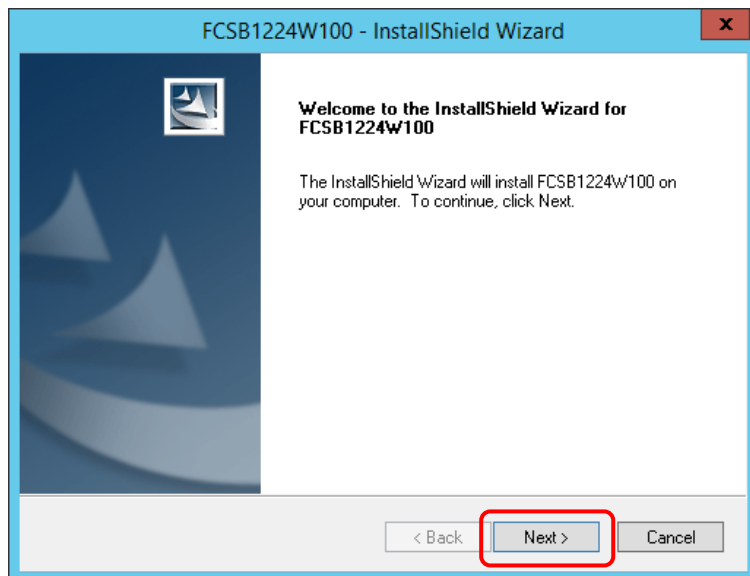
2-5-9 Installation of MITSUBISHI CNC communication software

NOTICE

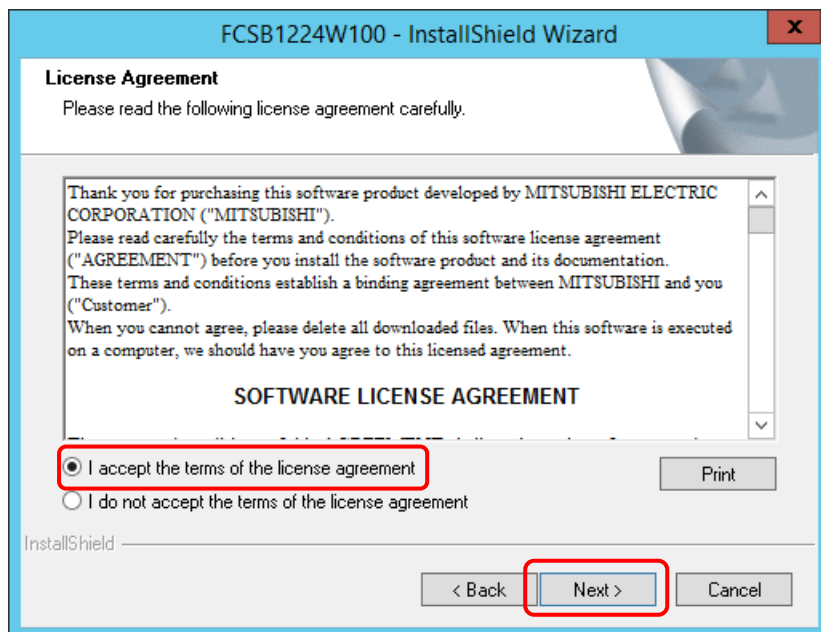


- Install the software only when communicating with MITSUBISHI CNC.

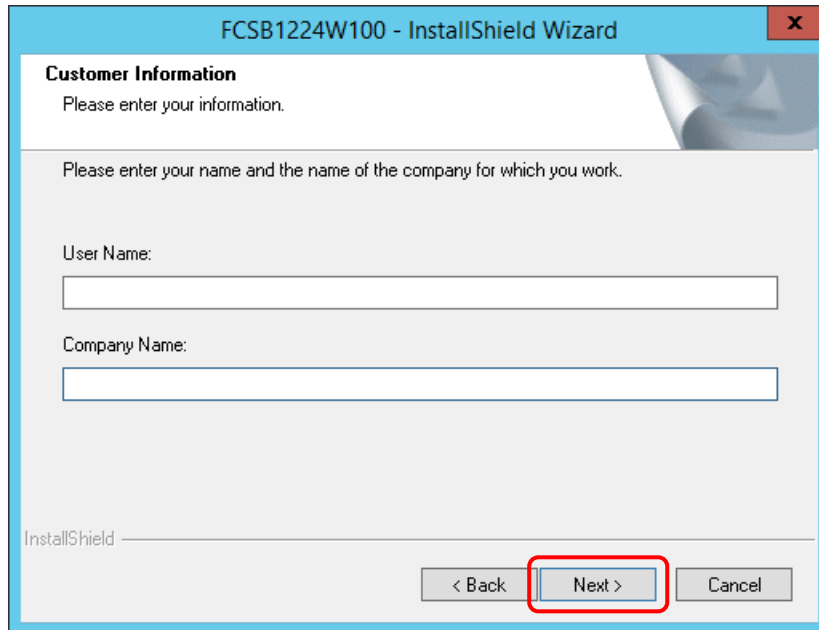
- 1) Insert installation disc of SMOOSS-i into optical drive.
- 2) Display files of “FCSB1224W100” folder of installation disc by Windows Explorer.
- 3) Double click “runtime-setup.exe”.
- 4) When following screen displays, click [Next >].



- 5) When following screen displays, after reading license agreement carefully, select [I accept the terms of the license agreement] and click [Next >].



6) Enter User Name and Company Name. Click [Next >] after entering.



FCSB1224W100 - InstallShield Wizard

Customer Information
Please enter your information.

Please enter your name and the name of the company for which you work.

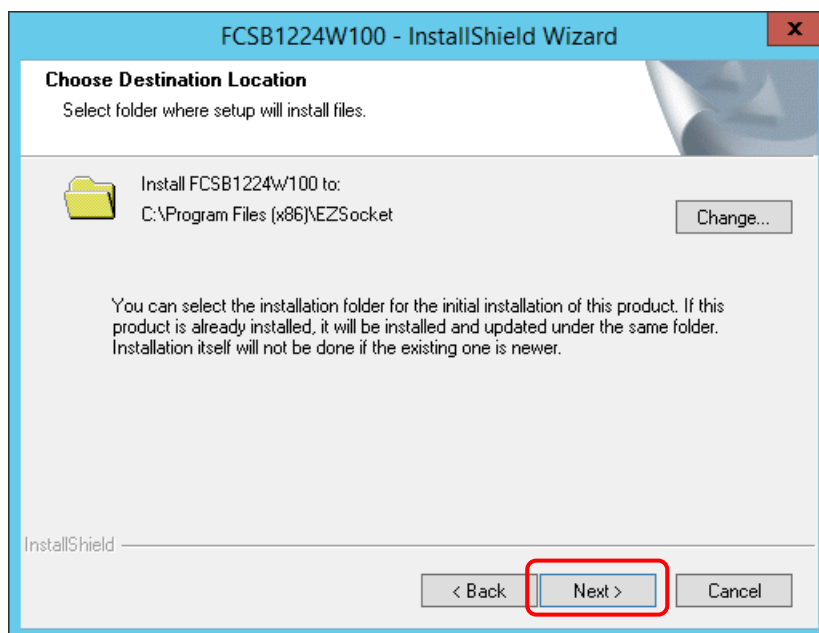
User Name:

Company Name:

InstallShield


< Back **Next >** Cancel

7) When following screen displays, click [Next >].



FCSB1224W100 - InstallShield Wizard

Choose Destination Location
Select folder where setup will install files.

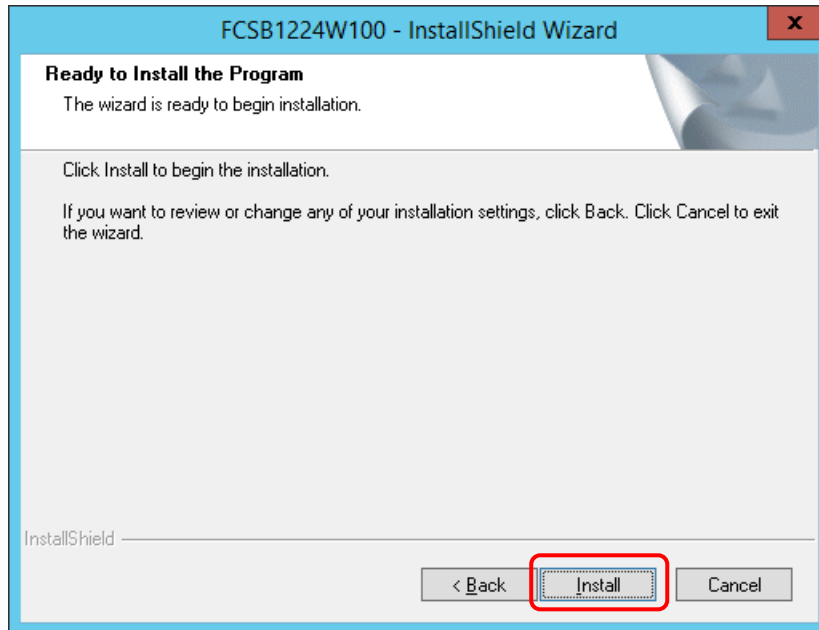
 Install FCSB1224w100 to:
C:\Program Files (x86)\EZSocket Change...

You can select the installation folder for the initial installation of this product. If this product is already installed, it will be installed and updated under the same folder. Installation itself will not be done if the existing one is newer.

InstallShield

< Back **Next >** Cancel

8) When following screen displays, click [Install].

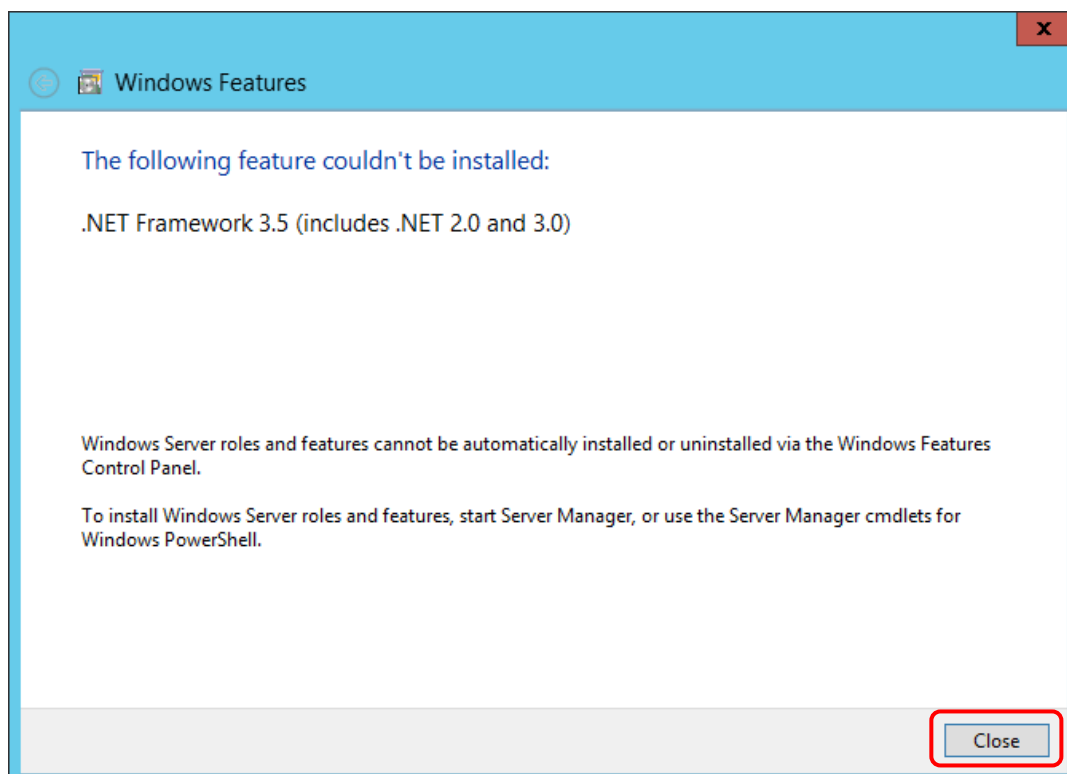


9) When the following screen displays, click [Close]. Please click [Close] several times as the same screen is displayed over and over again.

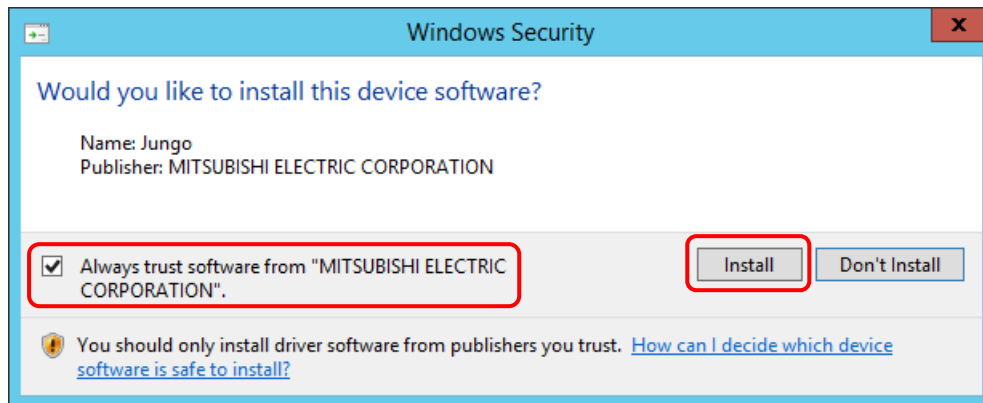
NOTE



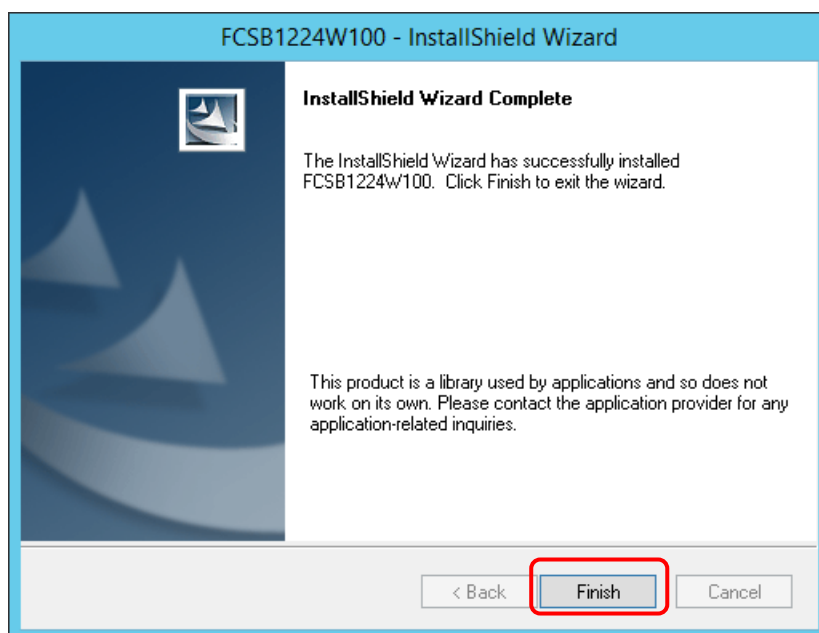
- There is no need to install .NET Framework 3.5 to operate the software.



10) When following screen displays, click [Install].



11) When installation completes, following screen displays. Click [Finish] to close Setup window.



12) Restart the server.

CHAPTER 3

Information collect application

3 Information collect application

3-1 Starting

a) When starting from short cut

Double click the short cut [Collector]  to start Collector.

b) When starting from the start menu

1) Select Windows' start menu.

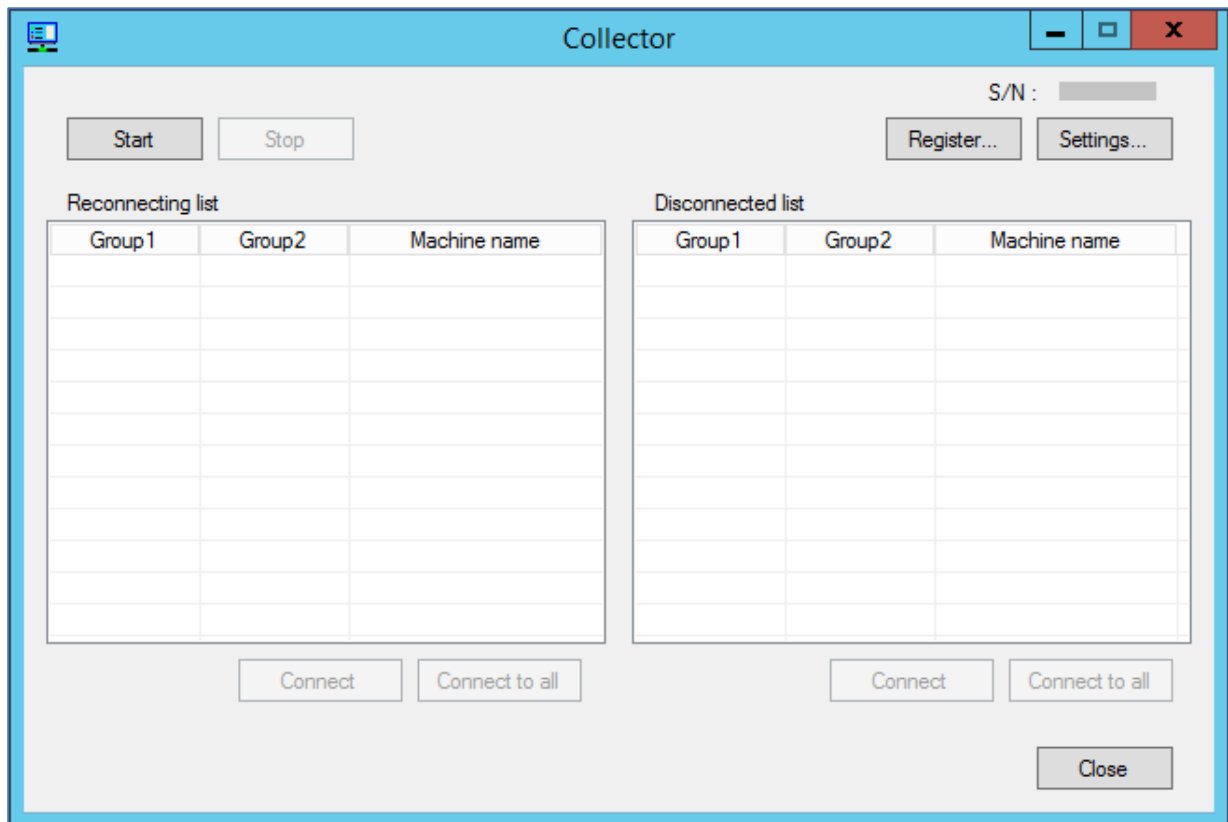
For Windows 11, select the arrow net to [All Apps].

2) Select [Star Micronics SMOOSS-i].

3) Select [Collector] to start Collector.

3-2 Main Screen

When Collector starts, following main screen displays.



Buttons and functions

- [S t a r t] To start information collection.
- [S t o p] To stop information collection.
- [Register...] To display Registration screen. Refer to section 3-7.
- [Settings...] To display Settings screen. Refer to section 3-8.
- [Connect] To start connection with machine. Refer to section 3-6.
- [Connect to all] To start connection with machine. Refer to section 3-6.
- [C l o s e] To finish the Collector.

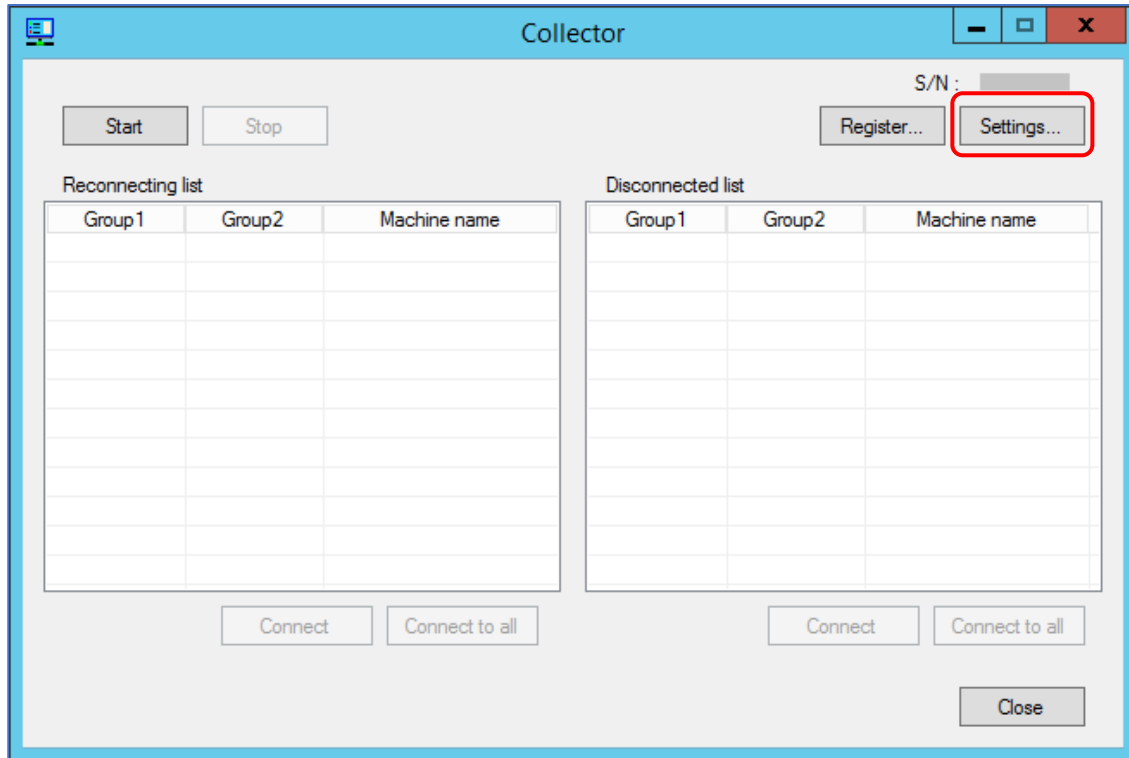
3-3 License Registration

NOTICE

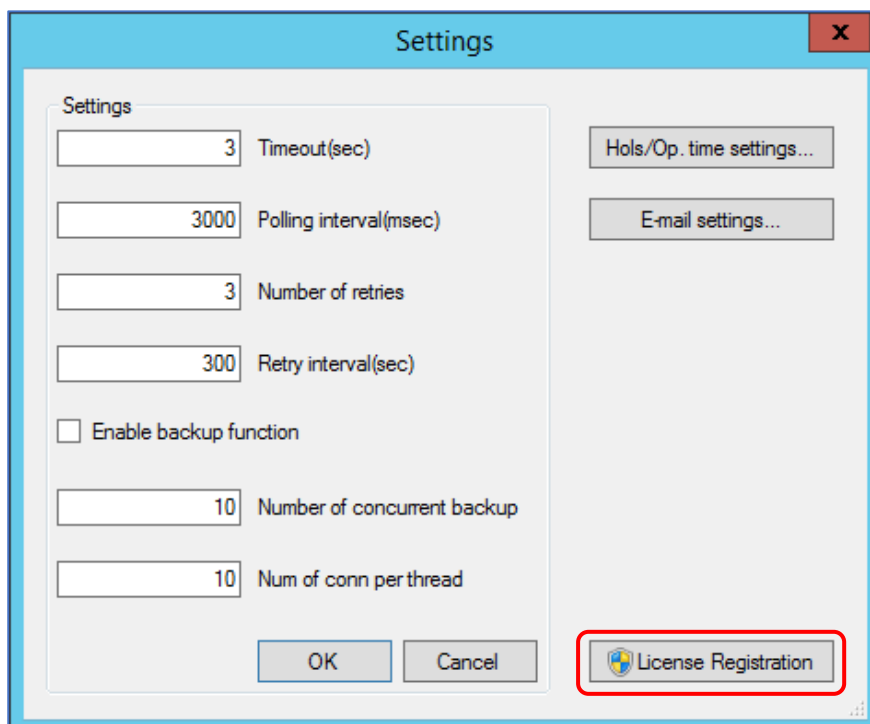


- You can use SMOOSS-i on the server without password for 90 days after installation.

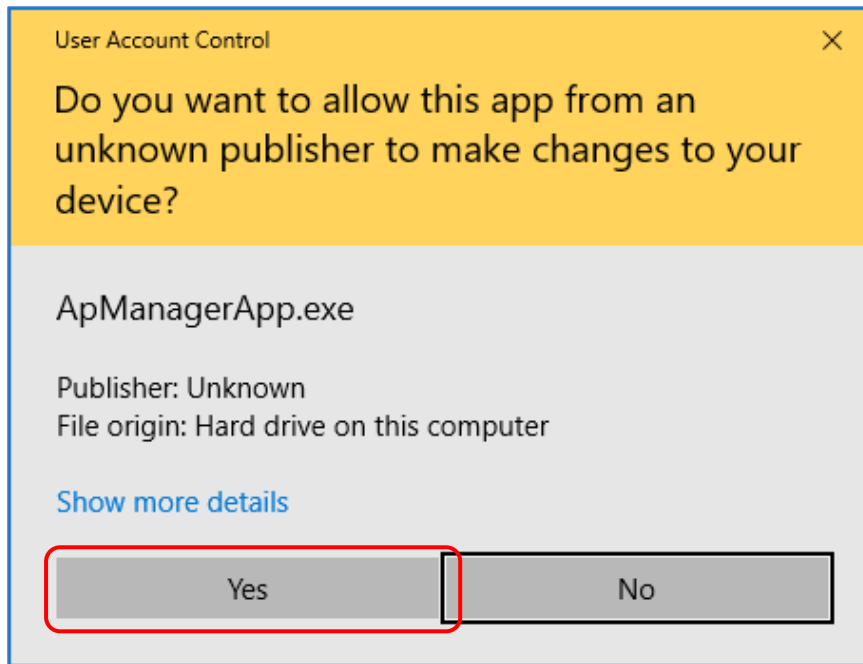
Click [Settings...] button on the main screen.



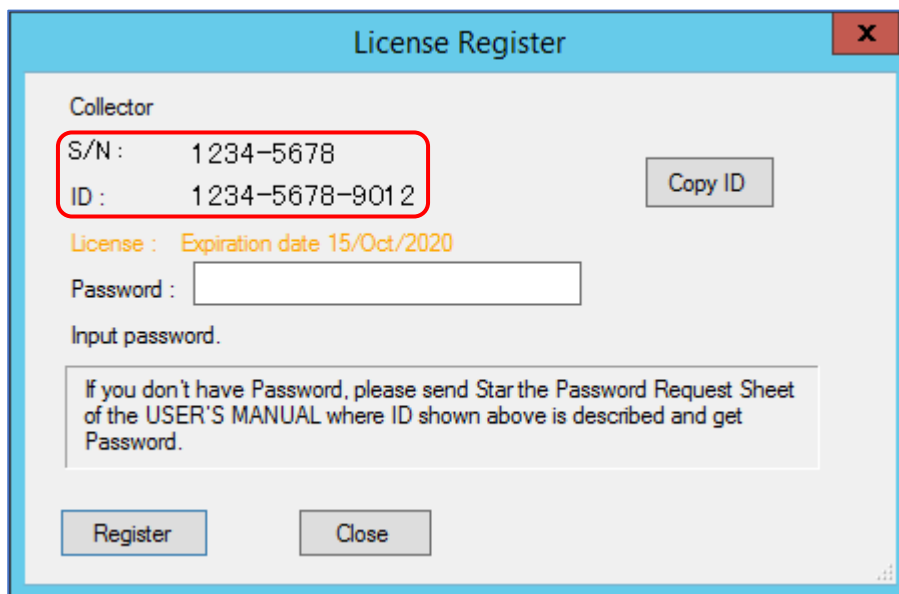
When following screen displays, click [License Registration].



When User Account Control displays, click [Yes]



The password prompt dialog box appears. Acquire the password from Star and input the password into the password field and click [Register] button. After inputting the correct password, no further license registration is required.



NOTICE

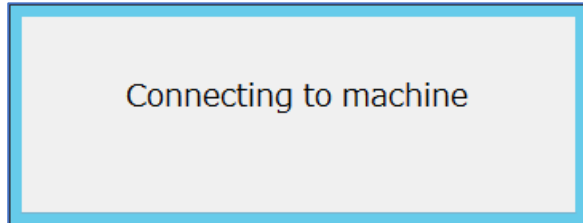


- Please send "Password Request Sheet" to STAR MICRONICS and acquire the password. S/N and ID code shown in the screen above are necessary to complete the "Password Request Sheet". "Password Request Sheet" can be found on page iv of this manual.
- You need to acquire a new password for each server.
- You need to sign in with a username (an account name) of server administrator or belonged to the Administrators group.

3-4 Start

Click [Start] button to start information collection.

During connecting process with the machine, following message displays. The message window closes automatically after connection completes. When connecting with multiple machines, multiple message windows displays according to the number of the machine.



NOTICE



- <For versions earlier than 1.8.2>

While collecting the information, do not sign out (log off) on the server. If doing so, information collecting interrupts.

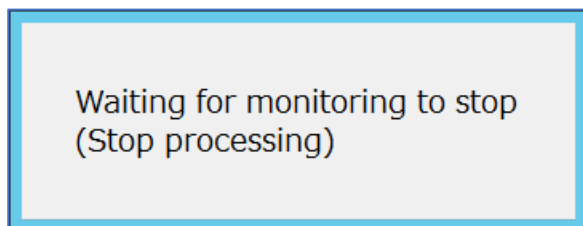
- <For version 2.0.0 and later>

Information will continue to be collected even if you sign out (log off).

3-5 Stop

Click [Stop] button to stop information collection.

While in stop processing, following message displays. The message window closes automatically after the process completes.



3-6 Connection, reconnection

Any error occurrence during communicating is recorded in list of reconnection or disconnection.

•Reconnection list

Machines which continue reconnection are listed in this list. Periodical reconnection try is carried out for the machines. When achieved correct connection, information is collected.

To connect right away, click [Connect] or [Connect to all].

•Disconnection list

Machines which finished the reconnection process are listed in this list. Automatic reconnection is not carried out for the machines in this list. To connect, click [Connect] or [Connect to all].

REFER



- Refer to “3-8 Settings” for details on settings of reconnection action.

3-7 Registration

Click [Register...] button to display following screen.

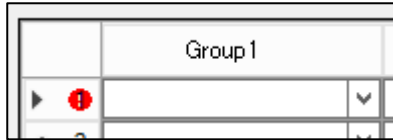
The screenshot shows a 'Registration' window. At the top, there's a title bar with 'Registration' and a close button. Below it is a table with 8 columns: Group1, Group2, Machine name, IP address, Port No., NC manufacturer, Holiday data name, and Operation time data name. The first row is numbered '1' and contains dropdown menus for Group1 and Group2, and input fields for the others. Below the table is a large grey rectangular area. At the bottom, there's a 'Communication test' section with a 'Test' button, a 'Machine name' input field, a 'Ping' button, a 'Handle' button, and a 'Port' input field. To the right of this section are buttons for 't', 'i', 'Insert', and 'Delete'. At the bottom right, there are 'Register' and 'Cancel' buttons.

Items	Contents
Group1	To set "Grop1". When not using, leave blank.
Group2	To set "Grop2". When not using, leave blank.
Machine name	To set machine name.
IP address	To set the IP address of target machine.
Port No.	To set the port number of target machine. Set "683" for MITSUBISHI CNC.
NC manufacturer	To set the NC manufacture of target machine.
Holiday data name	To set Holiday data name made with the procedure in "section 3-8-1".
Operation time data name	To set Operation time data name made with the procedure in "section 3-8-1".

The settings of NC manufacturer are as follows.

Settings	Contents
FANUC	For FANUC CNC.
MITSUBISHI	For MITSUBISHI CNC.
FANUC(OC)	For FANUC CNC machine tools manufactured by other companies (non STAR).
MITSUBISHI(OC)	For MITSUBISHI CNC machine tools manufactured by other companies (non STAR).
N/A	Not communicate with the machine. Displays on "Monitor" screen.
N/M	Not communicate with the machine. Not display on "Monitor" screen (History only).

If there is any problem on the entered data, red mark displays on the No of line with problem.



About communication with machine tools manufactured by other companies.

NOTICE



- Communication with machine tools manufactured by other companies is not guaranteed.

When communicating with machine tools manufactured by other companies, following information will be collected.

- NC status (Operate, Stop, Alarm)
- Count value (parameter value of PATH 1)
- Program name being selected and comments.
- Alarm Message.
- Operator Message.

Button and function

- | | |
|------------|--|
| [Register] | To register input data. |
| [Cancel] | To cancel input data. |
| [↑] | To move data of the line with cursor to above. |
| [↓] | To move data of the line with cursor to below. |
| [Insert] | To add a line just above the line with cursor. |
| [Delete] | To delete data of the line with cursor. |

NOTE



- In the web page (refer to 4-3-1 NC status list view), machines are displayed in the same order as set in this section.

Communication test

Select target machine to be tested then click [Test] button. Item being tested flashes.

When test completes, results displays in each field.

To interrupt, click [Cancel] button.

Items	Contents
Machine name	To display the target machine name.
Ping	To display the Ping test result. When an error occurs, it is displayed in the form of "error count / test count". For example, if an error occurs 3 times in 5 tests, it will be displayed as "3/5".
Port	To display the test result of port number. When an error occurs, "NG" is displayed.
Handle	To display the test result of handle acquisition. When an error occurs, the number will be displayed.

3-8 Settings

Click [Settings...] button to display following screen.

The screenshot shows a 'Settings' dialog box with the following elements:

- Title Bar:** 'Settings' with a close button (X).
- Settings Group Box:**
 - Timeout(sec):** Input field with value '3'.
 - Polling interval(msec):** Input field with value '3000'.
 - Number of retries:** Input field with value '30000'.
 - Retry interval(sec):** Input field with value '30'.
 - Enable backup function:** A checkbox that is currently unchecked.
 - Number of concurrent backup:** Input field with value '10'.
 - Num of conn per thread:** Input field with value '10'.
- Buttons on the right:** 'Hols./Op. time settings...', 'E-mail settings...', and 'License Registration'.
- Buttons at the bottom:** 'OK' and 'Cancel'.

Items	Default	Contents
Timeout(sec)	3	To set timeout value when communicating with the machine.
Polling interval(msec)	3000	To set time interval to acquire the machine data.
Number of retries	30000	To set the number of times to try reconnection in the case of disconnection with the machine.
Retry interval(sec)	30	To set time interval of when trying reconnection.
Enable backup function	Ineffective	For using back-up function, check the box.
Number of concurrent backup	10	To set the number of target machine from which the back-up data is collected at the same time.
Number of conn per thread	10	Do not change the value.

Each item can be set. Leave default values normally.

3-8-1 Setting of holidays, operation time

Click [Hols/Op. time settings...] button to display following screen.

Holidays/Operation time settings

Holidays

Creation data

Target data

August 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Operation time

Creation data

Target data

Start (24h)

a) Holidays data

•Creating

Enter the data name to be create into “Creation data” field to click [Create] button.

Holidays

Creation data

Target data

August 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Check that the entered data name is displayed at “Target data” field then click to select the date to be set as holiday in the calendar. The setting date displays on the right of the calendar.

Holidays

Creation data

Target data holidays ▼

Create Delete

August 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Aug.2018(4)

8/05/2018
8/12/2018
8/19/2018
8/26/2018

Setting date

Click to select

NOTICE



- Operation to preserve is unnecessary.
- Alphanumeric characters (A–Z, a–z, 0–9) and underscore () can be used for entering the data name. Data name must start with other than numeric characters.

•Editing

Select the Holidays data to be edited from “Target data” field and click a date on calendar to select. If the date is already set as Setting date, the date will be deleted. If the date is not set yet, the date will be added as holiday to Setting date.

Holidays

Creation data

Target data holidays ▼

Create Delete

August 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Aug.2018(3)

8/05/2018
8/12/2018
8/19/2018

Click to select

NOTICE



- Operation to preserve is unnecessary.

- Data deleting

NOTICE



• Deleted data cannot be restored.

Selected the Holidays data to be deleted from “Target data” field to click [Delete] button.

Holidays

Creation data Create

Target data holidays ▼ Delete Click

Aug.2018(3)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

8/05/2018
8/12/2018
8/19/2018

b) Operation time data

- Creating

Enter the operation time data to be created in “Creation data” field to click [Create] button.

Operation time

Creation data opetime Create Click

Target data ▼ Delete

Start 00:00 ▲▼ End 00:00 ▲▼ (24h)

Check that the entered data name is displayed at “Target data” field then set the Start and End time. To set as 24 hours operating, set same datum time both to Start and End time.

Operation time

Creation data Create

Target data opetime Delete

Start 08:00 End 17:00 (24h)

Set Start and End time

Operation time

Creation data Create

Target data opetime Delete

Start 08:00 End 08:00 (24h)

Same datum time is set for 24 hours operation

NOTICE



- Operation to preserve is unnecessary.
- Alphanumeric characters (A–Z, a–z, 0–9) and underscore () can be used for entering the data name. Data name must start with other than numeric characters.

•Editing

Select the Operation time to be edited from “Target data” field and correct time.

Operation time

Creation data Create

Target data opetime Delete

Start 08:00 End 17:00 (24h)


Correct time

NOTICE

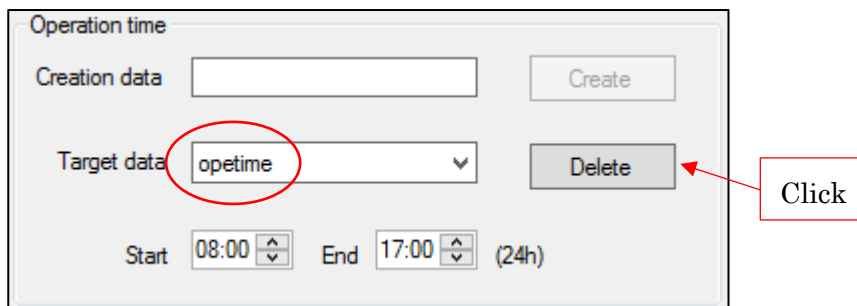


- Operation to preserve is unnecessary.

- Data deleting

NOTICE  Deleted data cannot be restored.

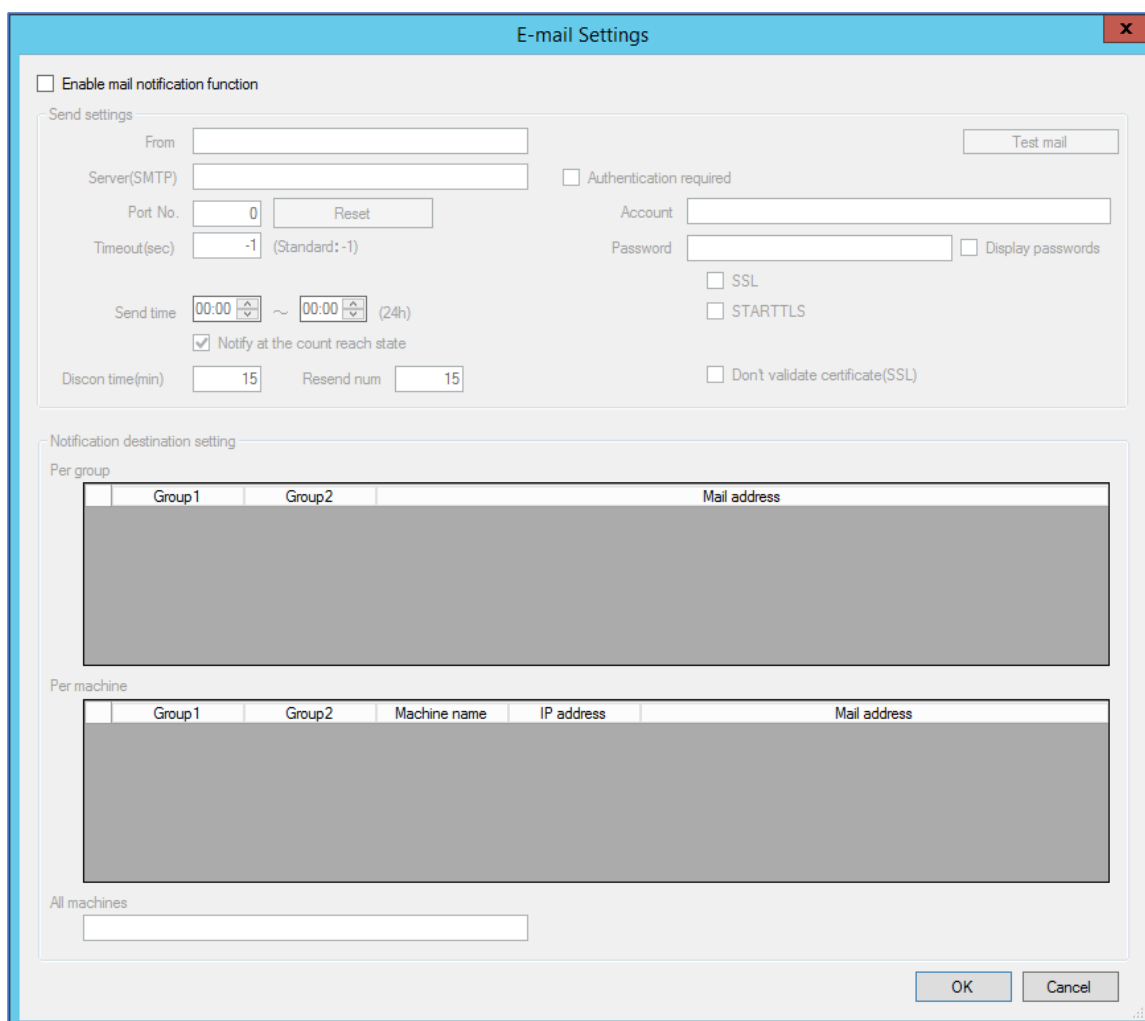
Select the Operation time to be deleted from “Target data” field to click [Delete] button.



The screenshot shows a dialog box titled "Operation time". It contains a "Creation data" field with a "Create" button. Below it is a "Target data" dropdown menu currently showing "opetime", which is circled in red. To the right of the dropdown is a "Delete" button. A red arrow points from a box labeled "Click" to the "Delete" button. At the bottom, there are "Start" and "End" time pickers set to 08:00 and 17:00 respectively, with a "(24h)" label.

3-8-2 Setting of E-mail notification

Click [E-mail settings...] button to display following setting screen.



The screenshot shows the "E-mail Settings" window. It has a title bar with a close button. The main area is divided into two sections. The first section, "Send settings", includes a checkbox for "Enable mail notification function". Below it are fields for "From", "Server(SMTP)", "Port No." (with a "Reset" button), and "Timeout(sec)". There are also "Send time" pickers and a "Test mail" button. The second section, "Notification destination setting", contains two tables. The first table, "Per group", has columns for "Group1", "Group2", and "Mail address". The second table, "Per machine", has columns for "Group1", "Group2", "Machine name", "IP address", and "Mail address". Below these tables is an "All machines" field. At the bottom right are "OK" and "Cancel" buttons.

To use mail notification function, check the box of “Enable mail notification function”.

<input checked="" type="checkbox"/> Enable mail notification function

a) Send settings

Item	Contents
From	To set sender address. The address set in this field will be displayed to the mail receiver as sender address. E.g.) smooss-i@****.com Administrator <smooss-i@****.com>
Server(SMTP)	To set sending server. E.g.) 192.168.1.1 smtp.****.com
Port No.	To set port number. E.g.) 25 By clicking [Reset] button, appropriate value will be set in accordance with the current setting.
Timeout	To set timeout value. Set with “-1” normally.

When authentication is required for sending server, set following settings.

Items	Contents
Authentication required	Check the box.
Account	To set the account name.
Password	To set the password.
Display passwords	To display characters of “Password” field.
SSL	Check this box to use encrypted connection (SSL).
STARTTLS	Check this box to use encrypted connection (STARTTLS).
Don't validate certificate(SSL)	Do not check this box.


NOTICE



- If there is anything unclear with contents, be sure to check with network supervisor of your company before setting.

Setting of E-mail sending time

By setting E-mail sending time, E-mail is sent only in the specified time.



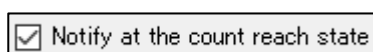
Setting such as starts before 0 o'clock and ends after 0 o'clock is also available.

When not specifying, set 0 o'clock to both time.

Setting of making E-mail sent at the count reach state.

To send E-mail at the count reach state, check the box of “Notify at the count reach state”.

This box is checked at initial status.



NOTICE



- Without check in this box, followings will not be notified.
The count reach state of parts counter.
The count reach state of tool life counter.

Setting of disconnected time

Set the time until judging as disconnection to the machine in “Discon time”. Default value is “15”.

Setting of resend number

Set the number of times to try resending when communication error with the sending server in “Resend num”. Default value is “15”.

NOTICE



- Resending is carried out with one-minute interval.
- After finishing carrying out resending for the number of times as set in “Resend num”, sending does not function even if communication error occurs with sending server.

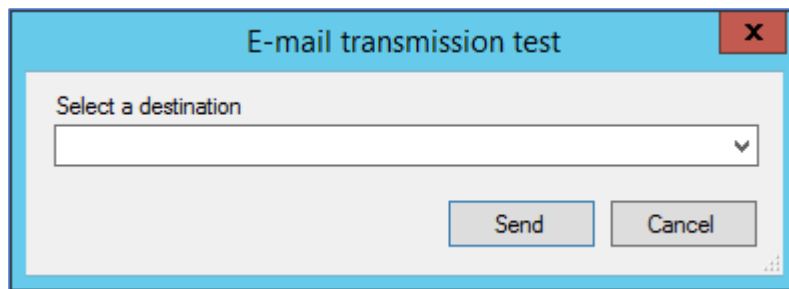
b) Notification destination setting

Sending destination of notification can be set per group and machine. Entering field is prepared according to the registration status of machine therefore enter the address in corresponding field. To set multiple addresses, divide them with comma “,”.

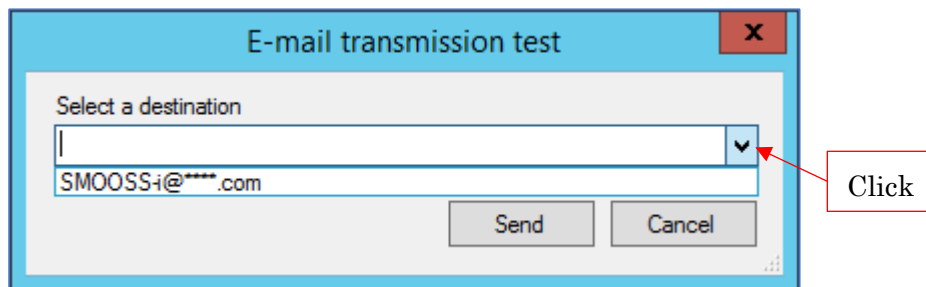
To send notification for all machine monitored, enter the address in “All machines”.

c) Sending the test mail

Click [Test mail] button to display following screen.



Select an address set as destination from the drop-down list. Direct entering is also allowed.



Click [Send] button to send test mail.

3-9 CNC Data back up

3-9-1 Displaying the button

[CNC Backup] button does not appear without setting. Check “Enable backup function” on setting screen to display this button.

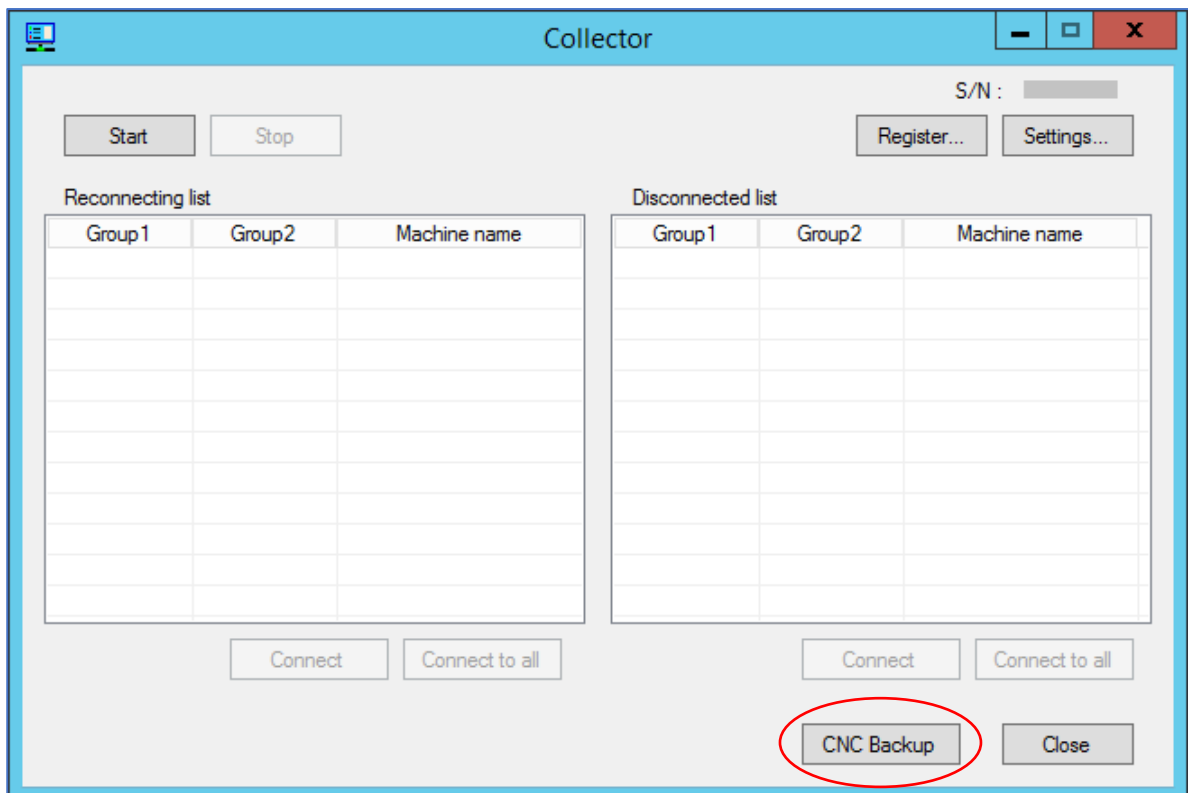
☒ Enable backup function

REFER

• Refer to “3-8 Settings” for details.



By checking “Enable backup function”, [CNC Backup] button displays on main screen.



3-9-2 About the screen

Click [CNC Backup] button to display following screen.

a) Backup data

Items	Contents
Program	Check this to back up the machining program.
Parameter	Check this to back up the parameter data.
SRAM	Check this to back up SRAM data.

NOTICE

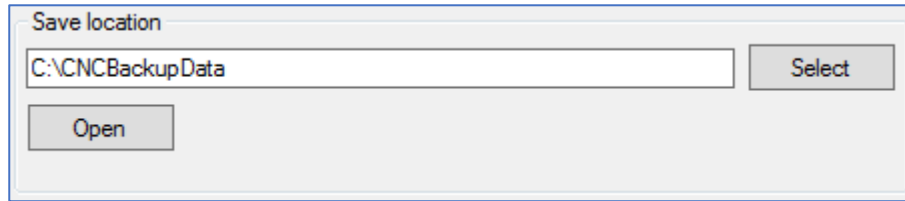


- To back up SRAM data, make the machine into the emergency stop state. Otherwise, an error will be generated.

<For the CNC series of 16i, 18i, 21i>

- To back up the program data, switch the machine mode to other than MDI mode. In addition, stop the background edit. Otherwise, an error will be generated.
- To back up the parameter data, carry out back up function during machine stop. When carrying out back up function even during one cycle stop state, an error will be generated. In this case, reset the machine then back up the parameter data.

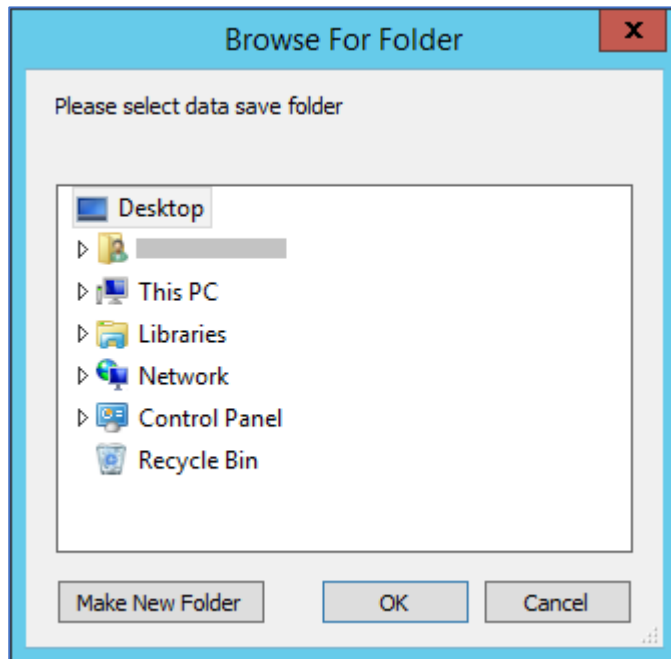
b) Save location



Specify the folder for saving back up data.

Click [Open] button to open the folder input in the form by Windows Explorer.

Click [Select] button to open following screen then specify a save folder.



NOTICE



- Default directory of Save location is C:\CNCBackupData”.
- Folder for each machine is created in specified Save location.

Folder name is set as “Machine name (IP address)”

E.g.)

Machine name	IP address	Folder name to be created
Machine100	192.168.62.100	Machine100(192.168.62.100)

- Moreover, folder with folder name of back-up date is created in folder for each machine.

E.g.)

Back up date	Folder name to be created
July 7, 2018	20180707

If multiple times of back-up is carried out in the same day, the folder of latest data is created with the name of date and the folders other than the latest one are created with name of back-up execution date and time.

E.g.)

Date time of backup	Folder name to be created
July 7, 2018 10:03:25	20180707_100325
July 7, 2018 20:00:37	20180707

c) List table

Target machine for data collection display by list table format.

Select all		Deselect all					
	Select	Machine name	IP address	Program	Parameter	SRAM	Error number

Items	Contents
Select	Check the desired machine to collect the data.
Machine name	Machine name is displayed.
IP address	IP address of the machine is displayed.
Program	Status for program data collection is displayed.
Parameter	Status for parameter data collection is displayed.
SRAM	Status for SRAM data collection is displayed.
Error number	Error number is displayed.

Click [Select all] button to make all machine be a target.

Click [Deselect all] button to make all machine be out of target.

3-9-3 Operation procedure

- 1) Select (check the box) the data to save in “backup data”.
- 2) Specify the save folder by “Save location”.
- 3) Check the “Select” column of the machine to collect data in the list.
- 4) Click [Start] button to start back-up.

Click [Cancel] to cancel in progress.

Example of list is following screen.

“Done” displays on the data collected normally, and “Error” displays on that with abnormal end.

Select all		Deselect all					
	Select	Machine name	IP address	Program	Parameter	SRAM	Error number
1	<input checked="" type="checkbox"/>	Machine108	192.168.62.108	Done	Done	Done	
2	<input checked="" type="checkbox"/>	Machine117	192.168.62.117	Done	Done	Done	
3	<input checked="" type="checkbox"/>	Machine101	192.168.62.101	Done	Done	Error	115

In the case of an error occurring.

- 5) Click [Close] button to close the screen.

3-9-4 Back up data name

File name of the back upped data is as follows.

Items	PATH (PATH/HEAD)	File name	
		Series 0i,30i,31i,32i	Series 16i,18i,21i
Program	1	ALL-PROG.TXT	PROGRAM.ALL
	2	ALL-PROG.P-2	PROGRAM.P-2
	3	ALL-PROG.P-3	—
Parameter	1	CNC-PARA.TXT (*1)	CNCPARAM.DAT
	2		CNCPARAM.P-2
	3		—
SRAM	—	SRAM *** (*2)	

(*1) Data for all PATHs is backed up to one file.

(*2) File name starts “SRAM” and character and extension follow in the different way depending on the machine type.

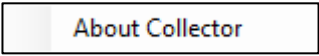
3-9-5 Error list

No.	Contents	
102	Cause	Communication disconnected.
	Measures	Check the cable of Ethernet, Power supply of CNC or network equipment
114	Cause	CNC is processing.
	Measures	Execute again.
115	Cause	System software of CNC is not applicable.
118	Measures	The software needs to be revised. Please inquire STAR MICRONICS.
126	Cause	Program data was tried to back up during MDI mode.
	Measures	Back up program data during other than MDI mode.
	Cause	Program data was tried to back up during background edit.
	Measures	Back up program data after finishing background edit.
127	Cause	Parameter data was tried to back up during machine operation.
	Measures	Back up parameter data after finishing machine operation.
	Cause	Parameter data was tried to back up during one cycle stop.
	Measures	Back up parameter data after resetting the machine.
	Cause	SRAM data was tried to back up in status other than emergency stop.
	Measures	Back up SRAM data during emergency stop status.
Other	Cause	Internal error occurred.
	Measures	Execute again. If same error occurs, please inquire STAR MICRONICS.

3-10 Close

Click [Close] button to finish Collector.

3-11 Version information

Right-click on main screen to display  then click it. Following version information displays.



CHAPTER 4

Web application

4 Web application

4-1 Access to the top page

Following address is top page of SMOOSS-i.

http://”Server IP Address”/SMOOSS-i/

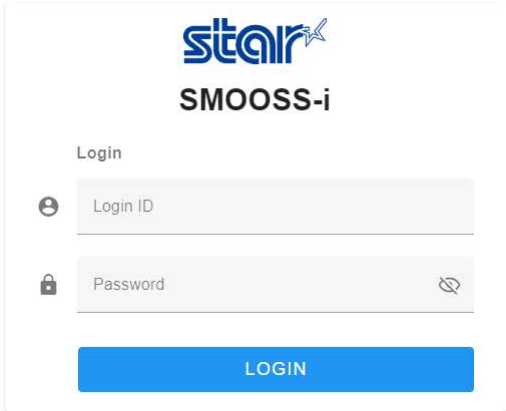
Access to the address by web browser (MS Edge etc.), the login screen will be appeared.

NOTICE



- Inquire serve IP address to the network supervisor of your company.

4-2 Login



Access to the SMOOSS-i URL to display the login screen.

Enter Login ID and Password, then click the [LOGIN] button.

NOTICE



- If Login ID and Password are not set, refer to '7-3-1 Create new screen from Program I/O function management application' to create a new user.
- If login fails despite entering the correct ID and password, refer to Chapter 9 on troubleshooting.

4-3 Screen configuration

The screen layout of this application consists of three parts.

They are main menu on the left side of the screen, the notification area at the top of the screen, and the display area in the center of the screen.

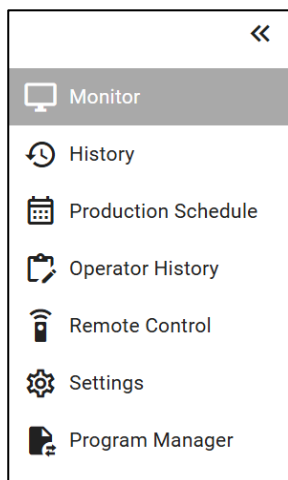
The screenshot displays the STAR application interface. The **Main menu** is located on the left side, featuring options: Monitor, History, Production Schedule, Operator History, Remote Control, Settings, and Program Manager. The **Notification area** is at the top right, showing the company name 'スター精密株式会社' and user icons. The **Display area** is the central section, containing a table of machine data. The table has columns for Machine, Program (PATH), Count / Preset, Today, and Memo. The data is organized by factory lines (A, B, C) and includes machine IDs, program numbers, counts, and completion times. A red box highlights the 'Display area' label, and another red box highlights the 'Main menu' label. A third red box highlights the 'Notification area' label.

Machine	Program (PATH)	Count / Preset	Today	Memo
Factory A Line#1 SR-20RIV #1	01234(SUS200-1241-4312-1023)	300 / 500	0	Complex machining function adaptable to multiple industries.
Factory A Line#1 SR-20RIV #2	01234(SUS200-1241-4312-1023)	75 / 1,000	0	The 27-position tool station can accommodate up to 41-tools to yield a variety of tooling options.
Factory A Line#1 SR-20RIV #3	01234(SUS200-1241-4312-1023)			The B-axis power-driven tool unit (Type B) with adjustable angle to the Z-axis and an adjustable angle power-driven tool unit (Type A) are...
Factory B Line#1 SX-38 #11	Disconnect			
Factory B Line#1 SX-38 #12	03535(SUS200-1241-4312-1023)	87 / 100	0	
Factory B Line#1 SX-38 #13	06002(SUS200-1241-4312-1023)	0 / 50	0	
Factory A Line#2 SL-10 #1	05912(SUS200-1241-4312-1023)	0 / 200	0	
Factory A Line#2 SL-10 #2	05913(SUS200-1241-4312-1023)	69 / 100	0	
Factory C Line#3 SP-23 #11	03234(SUS200-1241-4312-1023)	0 / 2,000	0	

■ Main menu

Click the Main menu to move to each screen. Main menu is expanded to click [>>] button and folded to click [<<] button.

<Expanded view>



<Folded view>



Items	Contents
Monitor	Move to the Monitor screen.
History	Move to the History screen.
Production Schedule	Move to the Production schedule screen.
Operator History	Move to the Operator history screen.
Remote Control (*1)	Move to the Remote Control screen.
Settings	Move to the Settings screen.
Program Manager	Open the Program Manager in new tab.

(*1) Remote Control displays only when users have administrative privileges.

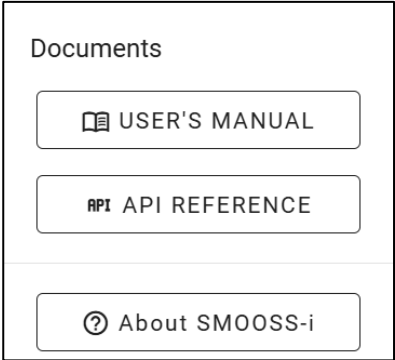
■ Notification area

Following information is displayed in the notification area.



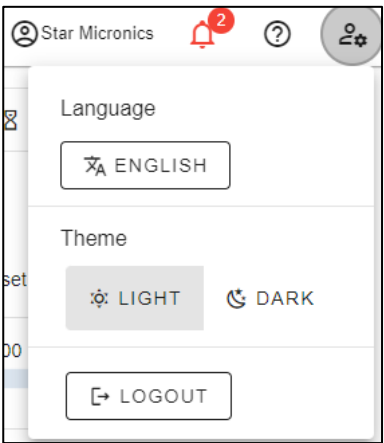
Items	Contents
Collector Service Error	Error message (Only when collector service is not running.)
Username	Login username next to the user icon.
Number of Alarm Machines	Number of machines being in alarm or minor alarm. When the icon is clicked, alarm machines are displayed below.
Help	Open the Help panel.
User Icon	Open the User setting panel.

<Help Panel>



Items	Contents
USER'S MANUAL	Open the user's manual in the new tab.
API REFERENCE	Open the Web API reference in the new tab.
About SMOOSS-i	Display app version and third party licenses.

<User Setting Panel>



Items	Contents
Language	Change application language to English or Japanese
Theme	Change application theme to light theme or dark theme
Logout	Logout and move to login screen.

■ Display area

Contents of the selected screen is displayed here.

■ CSV Download button

Push the download button in each screen to download a CSV file.



■ Dark Theme

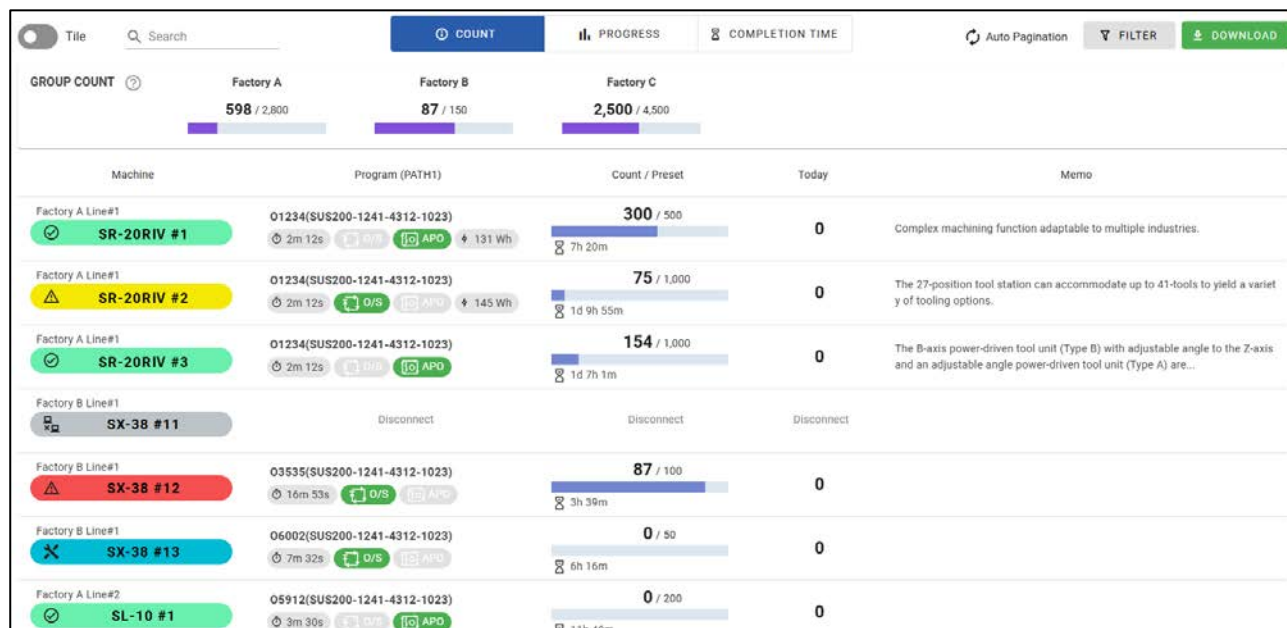
Push the “DARK” button on the user setting panel, dark theme is enabled in the entire application.

Machine	Program (PATH1)	Count / Preset	Today	Memo
Factory A Line#1 SR-20R11 #1	01234(SUS200-1241-4312-1023) 2m 12s 10 APD 131 Wh	300 / 500 7h 20m	0	
Factory A Line#1 SR-20R11 #2	01234(SUS200-1241-4312-1023) 2m 12s 10 APD 145 Wh	75 / 1,000 1d 9h 55m	0	
Factory A Line#1 SR-20R11 #3	01234(SUS200-1241-4312-1023) 2m 12s 10 APD	154 / 1,000 1d 7h 1m	0	
Factory B Line#1 SX-38 #11	Disconnect	Disconnect	Disconnect	
Factory B Line#1 SX-38 #12	03535(SUS200-1241-4312-1023) 16m 53s 10 APD	87 / 100 3h 39m	0	
Factory B Line#1 SX-38 #13	06002(SUS200-1241-4312-1023) 7m 32s 10 APD	0 / 50 6h 16m	0	
Factory A Line#2 SL-10 #1	05912(SUS200-1241-4312-1023) 3m 30s 10 APD	0 / 200 11h 49m	0	
Factory A Line#2 SL-10 #2	05913(SUS200-1241-4312-1023) 3m 31s 10 APD	69 / 100 1h 49m	0	

Status History Details					
SX-38					
Wed, 8/5					
Changed at	Status	Duration	Alarm PATH1	Alarm PATH2	Alarm PATH3
Wed, 08/05/2024 00:00	Minor Alarm	10h 26m 12s	2070 COUNT UP		
Wed, 08/05/2024 10:26	Setting	3s			
Wed, 08/05/2024 10:26	Operate	1m 42s			
Wed, 08/05/2024 10:27	Stop	2m 57s			
Wed, 08/05/2024 10:30	Alarm	6s	EX1142 REWIND TO TOP OF PROGRAM		
Wed, 08/05/2024 10:31	Stop	3s			
Wed, 08/05/2024 10:31	Operate	26s			
Wed, 08/05/2024 10:31	Stop	3s			
Wed, 08/05/2024 10:31	Alarm	3s	EX1142 REWIND TO TOP OF PROGRAM		
Wed, 08/05/2024 10:31	Stop	3s			

4-4 Monitor

Select “Monitor” from main menu to display monitor screen. Information to be displayed can be selected from “COUNT”, “PROGRESS”, or “COMPLETION TIME”. Display style can be changed to list-view or tile-view.



■Header



Items	Contents
Tile	Switch display style to the tile view.
Search	Partial match search by machine name, group name, program name, or memo.
Information Type	Select displayed Information from “COUNT”, “PROGRESS”, or “COMPLETION TIME”
Auto Pagination (*1)	Display “Auto Pagination” when auto pagination is enabled.
Filter	Open machine filter screen.
Group Count (*2)	<p>Total count/schedule for each Group 1 or Group 2 is shown.</p> <p>For machines during the period of production schedule, the number of planned production operations and cumulative count from the start of the planning are added up.</p> <p>For machines without production schedule, machine preset and count values are added up.</p>

(*1) Auto pagination can be changed from 4-10-4 System Setting screen.

(*2) Group1 or Group2 to accumulate can be changed from 4-10-4 System Setting screen. When group name is empty, “Unset” is displayed as group1 or group2.

■ Auto pagination

The screenshot shows a machine monitoring interface with a table of machine data. The 'Auto Pagination' button in the top right is highlighted with a red box. At the bottom right, the pagination controls show '6-10 of 10' and navigation arrows, also highlighted with a red box. The table lists machines from Factory B, A, and C, showing their status, program, completion time, and part counts.

Machine	Program (PATH1)	Completion Time	Part Counter	Tool Life	Memo
Factory B Line#1 SX-38 #13	06002(SUS200-1241-4312-1023) 7m 32s [0/5] [APO]		6h 16m 50 Left	OFF Left	
Factory A Line#2 SL-10 #1	05912(SUS200-1241-4312-1023) 3m 30s [0/5] [APO]	Tue, 05/13/2025 02:45	11h 40m 200 Left	OFF Left	
Factory A Line#2 SL-10 #2	05913(SUS200-1241-4312-1023) 3m 31s [0/5] [APO]	Mon, 05/12/2025 16:54	1h 49m 31 Left	OFF Left	
Factory C Line#3 SP-23 #11	03234(SUS200-1241-4312-1023) 2m 16s [0/5] [APO]		3d 3h 33m 2,000 Left	OFF Left	
Factory C Line#3 SP-23 #12	03234 2m 16s [0/5] [APO]		0 Left	OFF Left	

Items per page: 5 6-10 of 10 |< < > >|

When auto pagination is enabled, the monitoring screen automatically switches pages.

The number of machines per page and the number of seconds for page switching can be changed in the settings screen.

4-4-1 Machine Filter

When the filter button is clicked, Machine Filter screen opens.

Filter

Group1

All

Group2

All

☒ Status

☒ Operate

☒ Minor Alarm

☒ Alarm

☒ Setting

☒ Stop

☒ Disconnect

Program

All

☒ Onecycle Stop

ON

OFF

☒ Auto Power Off

ON

OFF

Remaining

☒ All

☐ 4Hours

☐ 12Hours

☐ 24Hours

FILTER

CLEAR

CANCEL

Check or select items on this screen to filter machines. If multiple criteria are set, machines that meet all those conditions are displayed.

Items	Contents
Group1, 2	Filter by group1 and group2.
Status	Filter by selected machine status.
Program	Filter by PATH1 program. To select “All” meet all programs.
One cycle Stop	Filter by one cycle stop is enable or not.
Auto Power Off	Filter by auto power off is enable or not.
Remaining time	Filter by remaining time.

If the filter is enabled, filtered conditions are shown on the top of the screen.

COUNT

PROGRESS

COMPLETION TIME

Factory 1

Operate

Minor Alarm

Alarm

Setting

Stop

Disconnect








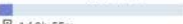












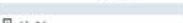








O2222







O/S ON

12hours

4-4-2 Count List

When “COUNT” is selected as information type, real time count or preset of each machine are displayed.

Machine	Program (PATH1)	Count / Preset	Today	Memo
Factory A Line#1  SR-20RIV #1	01234(SUS200-1241-4312-1023) ⌚ 2m 12s  	300 / 500  7h 20m	300	Complex machining function adaptable to multiple industries.
Factory A Line#1  SR-20RIV #2	01234(SUS200-1241-4312-1023) ⌚ 2m 12s  	75 / 1,000  1d 9h 55m	31	The 27 position tool station can accommodate up to 41 tools to yield a variety of tooling options.
Factory A Line#1  SR-20RIV #3	01234(SUS200-1241-4312-1023) ⌚ 2m 12s  	154 / 1,000  1d 7h 1m	154	The B-axis power-driven tool unit (Type B) with adjustable angle to the Z-axis and an adjustable angle power-driven tool unit (Type A) are...
Factory B Line#1  SX-38 #11	Disconnect	Disconnect	Disconnect	
Factory B Line#1  SX-38 #12	03535(SUS200-1241-4312-1023) ⌚ 16m 53s  	87 / 100  3h 39m	19	
Factory B Line#1  SX-38 #13	06002(SUS200-1241-4312-1023) ⌚ 7m 32s  	0 / 50  6h 16m	0	
Factory A Line#2  SL-10 #1	05912(SUS200-1241-4312-1023) ⌚ 3m 30s  	0 / 200  11h 40m	124	
Factory A Line#2  SL-10 #2	05913(SUS200-1241-4312-1023) ⌚ 3m 31s  	69 / 100  1h 42m	69	

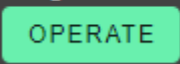
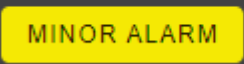
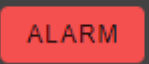

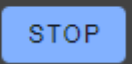
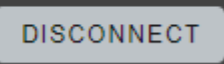






Items	Contents
Machine	<p>Current machine status with icon and color (*1)</p> <p>Group1,2 and machine name (*2)</p> <p>Click the machine name to move to 4-5 Machine Dashboard screen.</p>
Program	<ul style="list-style-type: none"> PATH1 Program name + (Comment written at program beginning) 02222(SUS300-1241-4312) Cycle time  2m 12s One cycle stop ON (Green) / OFF (Gray)   Auto Power Off ON (Green) / OFF (Gray)   One cycle power consumption (only for machines have corresponding function)  145 Wh
Count/Preset	<p>Current machine count and preset.</p> <p>Remaining time until the count reaches the preset is shown below the chart. “OFF” is displayed when part counter is disabled.</p>
Today	Accumulated count since today’s operation started (*3).

	(Reset of count is ignored.)
Memo	Machine memo (*4)

(*1) Color for the NC status

Machine (NC) status is shown with colors. Green, red and yellow are colors of beacon.

Refer to the operation manual of the machine for detail on the beacon.

Legend		
		
		
Color	Status name	Status
 Green	Operate	On automatic operating (includes time for bar changing by automatic bar feeder).
 Yellow	Minor Alarm	On alarm generating such as the count reach state.
 Red	Alarm	On alarm displaying on the NC screen.
 Light blue	Setting	On stop status in setting mode.
 Blue	Stop	On stop status in machining mode.
 Gray	Disconnect	On power OFF or disconnection.

(*2) Any name can be set for “Group1”, “Group2”, “Machine name”.

REFER • Refer to “3-7 Registration”.



(*3) Operation time of machines can be set any time. If not set, this value is accumulated count since 0 A.M.

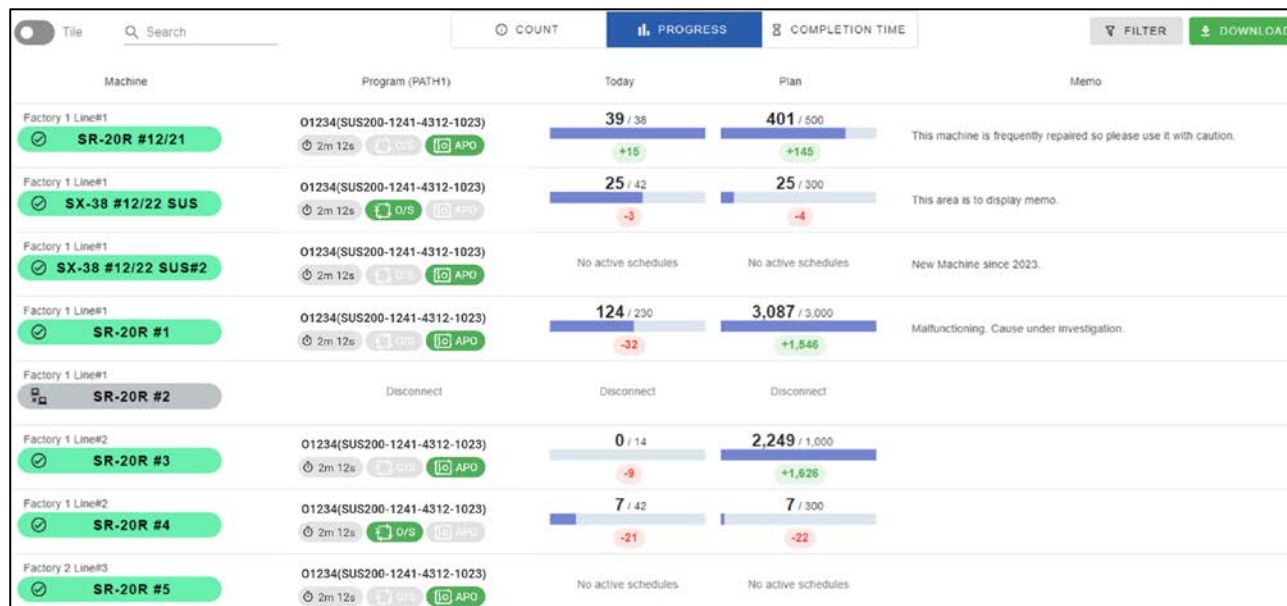
REFER • Refer to “3-8-1 Setting of holidays, operation time”.



(*4) Machine memo can be edited on 4-5-1 Machine Dashboard screen.

4-4-3 Progress List

When “PROGRESS” is selected as information type, progress against production schedule is displayed.



Other displayed items except following table are same as on 4-4-2 Count List screen.

Items	Contents
Today	Cumulative total count from the start time of today's operation is shown against today's planning value calculated from the planning value of production schedule. Numbers below the chart such as “+300” or “-200” indicate the current production progress being ahead or behind schedule. If no production schedules, “No active schedules” is shown. (*1)
Plan	Cumulative total count from the start time of the schedule is shown against the planning value of the schedule. Numbers below the chart such as “+300” or “-200” indicate the current production progress being ahead or behind schedule. If no production schedules, “No active schedules” is shown. (*1)

(*1) With “Always show Today's Progress” turned ON on the 4-10-4 System Setting screen, today's progress appears even when there are no schedules.

Progress is shown by the value preset in the machine as a production schedule for a day.

■Example for how to calculate production progress

<Operation time setting>

9:00 to 19:00 (10hours)

<Production schedule>

Plan: 500

Period: April 1st 9:00 to April 5th 19:00

Total Operation Time: 50hours (Except holidays and non-operation time)

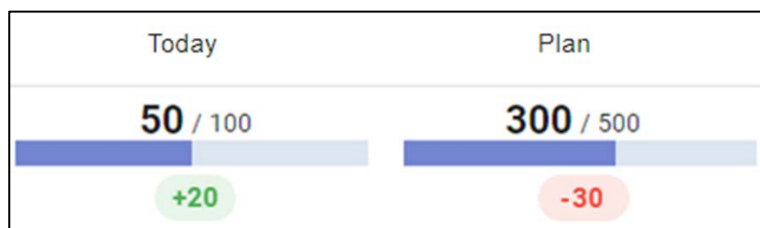
<Condition>

Current Date: April 4th 12:00

Count since today's operation started (at 9:00): 50.

Date	April 1 st	April 2 nd	April 3 rd	April 4 th (today)	April 5 th
Plan	100	100	100	100	100
Actual count	100	100	50	50	-

<Displayed Production Progress>



<Today>

Today's count/ Today's plan : 50/100

Passed operation time : 3hours

Total operation time : 10hours

Number to be processed up to now : $100 * 3/10 = 30$

Ahead or behind : +20 (=50-30)

<Plan>

Count of schedule/plan of schedule : 300/500

Passed operation time : 33hours

Total operation time : 50hours

Number to be processed up to now : $500 * 33/50 = 330$

Ahead or behind : -30 (=300-330)

4-4-4 Completion Time List

When “COMPLETION TIME” is selected as information type, estimated completion date and time for operating machines are displayed.

Machine	Program (PATH1)	Completion Time	Part Counter	Tool Life	Memo
Factory 1 Line#1 SR-20R #12/21	01234(SUS200-1241-4312-1023) 2m 12s	Wed, 05/08/2024 09:06	17h 20m 200 Left	3d 12h 56m - Left	This machine is frequently repaired so please use it with caution.
Factory 1 Line#1 SX-38 #12/22 SUS	01234(SUS200-1241-4312-1023) 2m 12s	Wed, 05/08/2024 04:20	1d 4h 57m 925 Left	12h 33m - Left	This area is to display memo.
Factory 1 Line#1 SX-38 #12/22 SUS#2	01234(SUS200-1241-4312-1023) 2m 12s	Sun, 07/22/2029 09:26	1901d 17h 39m 994,945 Left	OFF - Left	New Machine since 2023.
Factory 1 Line#1 SR-20R #1	01234(SUS200-1241-4312-1023) 2m 12s	-	OFF - Left	OFF - Left	Malfunctioning. Cause under investigation.
Factory 1 Line#1 SR-20R #2	Disconnect	-	-	-	-
Factory 1 Line#2 SR-20R #3	01234(SUS200-1241-4312-1023) 2m 12s	Wed, 05/08/2024 06:02	14h 15m 969 Left	14h 43m 1,000 Left	
Factory 1 Line#2 SR-20R #4	01234(SUS200-1241-4312-1023) 2m 12s	Tue, 05/07/2024 16:47	1h 0m 69 Left	OFF - Left	
Factory 2 Line#3 SR-20R #5	01234(SUS200-1241-4312-1023) 2m 12s	Wed, 05/08/2024 06:30	OFF - Left	14h 43m 1,000 Left	

Other displayed items except following table are same as on 4-4-2 Count List screen.

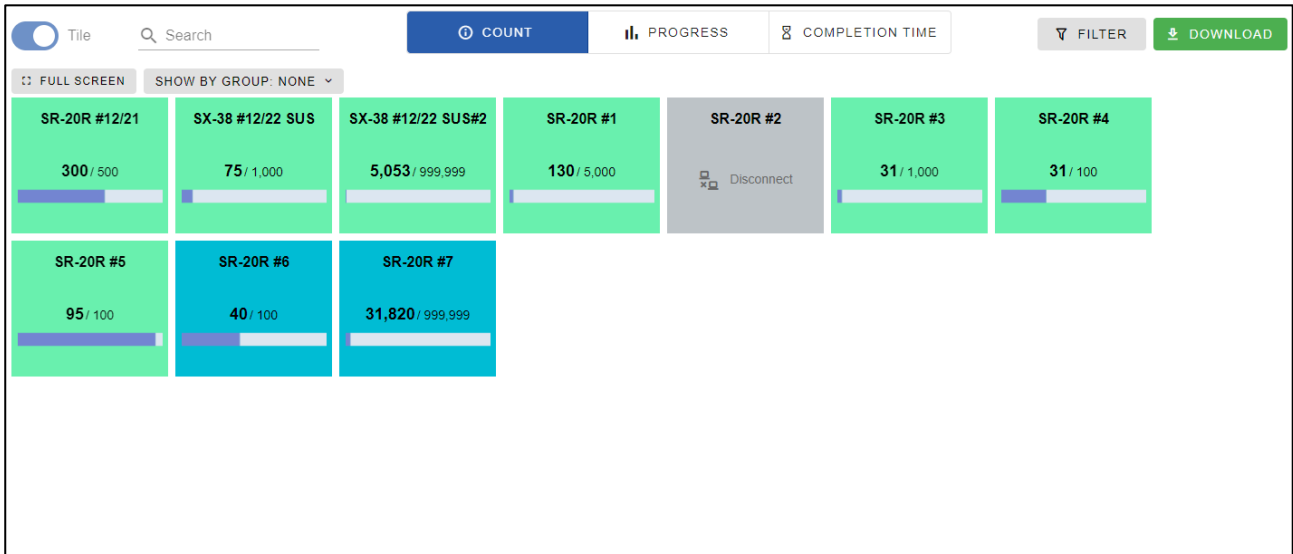
Items	Contents
Completion Time (*1)	Estimated completion date and time when operation stops. The color changes according to the remaining time (*2). If “SETTING OF NON-STOP TIME PERIOD” is On, this value changes according to the set parameter.
Part Counter	The remaining time until part counter reaches preset value. “*** Left” means preset minus count. If the part counter is disabled on the machine, “OFF” is displayed here.
Tool Life	The remaining time until the tool life counter reaches preset value. “*** Left” means preset minus count. Click this icon to open 4-5-2 Tools screen. If the tool counter is disabled on the machine, “OFF” is displayed here.

(*1) Completion time can be changed to remaining time on 4-10-4 system setting screen.

(*2) Correspondence of color and time criteria can be modified on 4-10-4 system setting screen.

4-4-5 Tile View

Switch the “Tile” button to show tile view display.

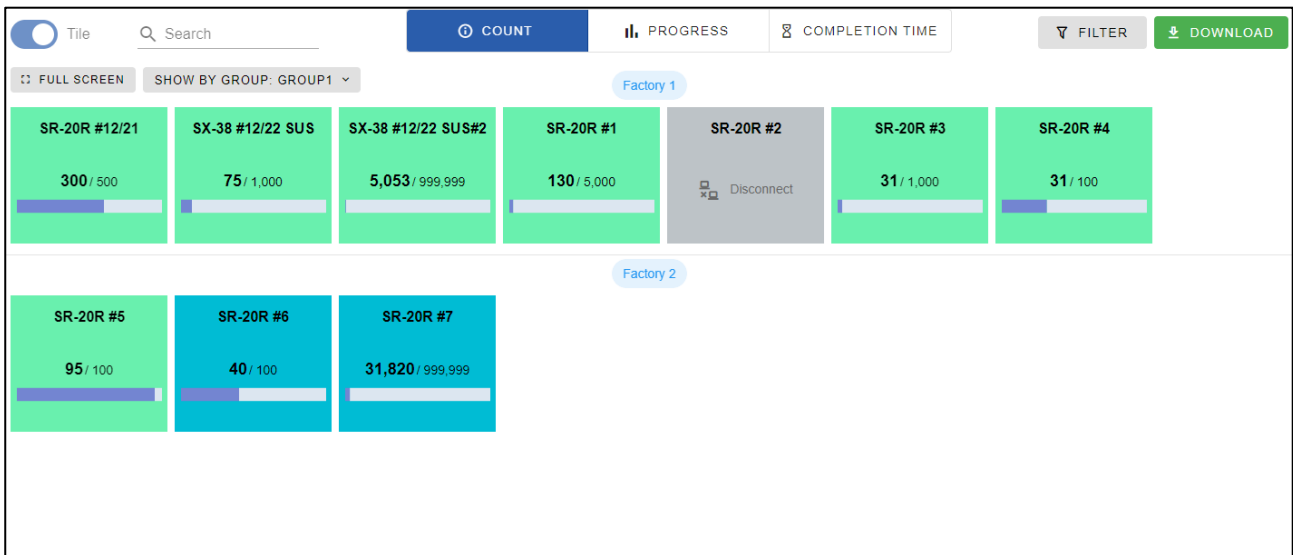


Background color of tile shows the status of machine.

Click “FULL SCREEN” to display full screen. (This function is assumed to be displayed in the monitor in factories.)

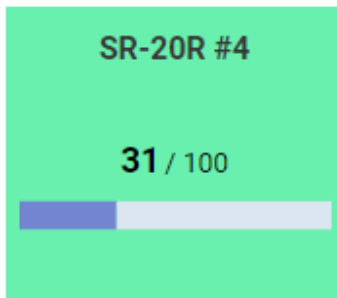
Select “SHOW BY GROUP” list to display tiles grouped by group1 or group2.

■Grouped display



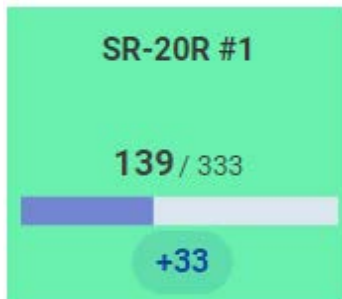
■Count

Machine count and preset are shown on tiles when information type is “COUNT”.



■Production Progress

Today or Plan progress are shown on tiles when information type is “PROGRESS”. They can be switched from “PROGRESS” list above tiles.

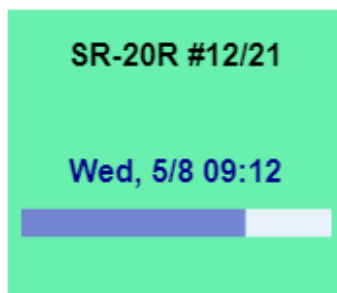


■Completion Time

Completion time or Remaining time are shown on tiles when information type is “COMPLETION TIME”.

They can be switched from 4-10-4 System Setting screen.

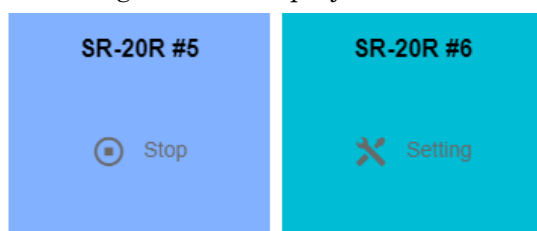
<Completion Time>



<Remaining Time>

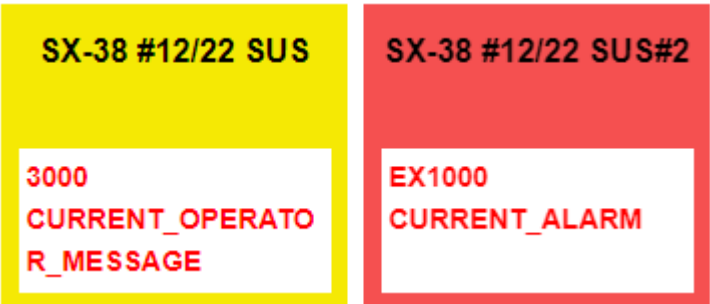


Following tiles are displayed when machine status is stop or setting.



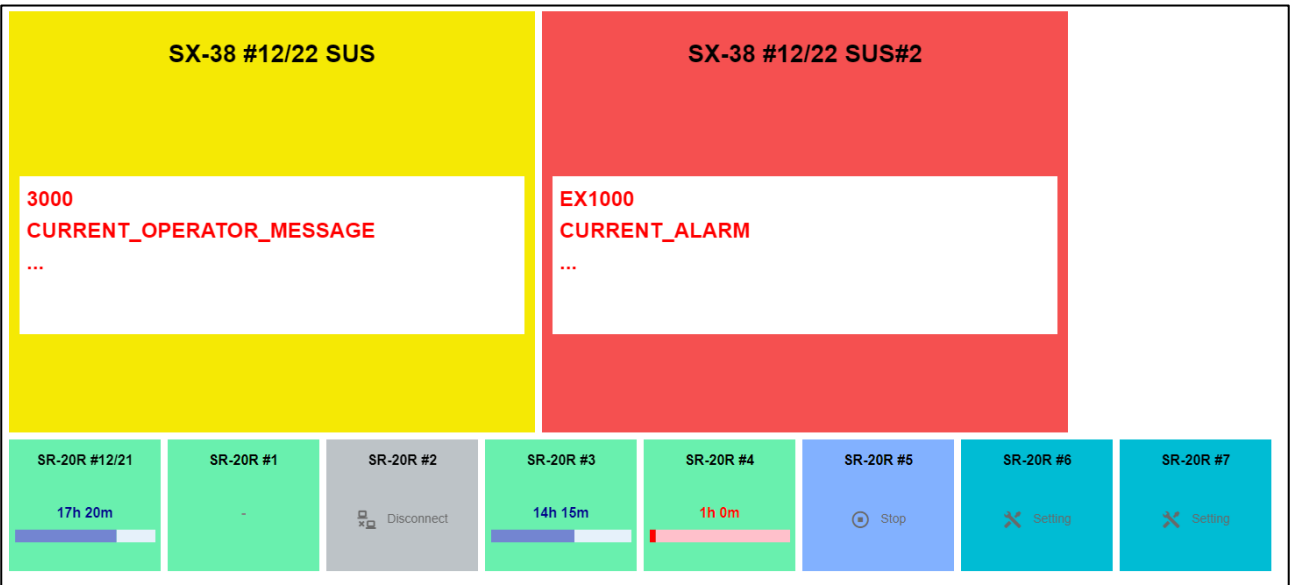
■Alarm / Minor Alarm

When Alarm or minor alarm are occurred in a machine, alarm messages are displayed on the tile at any information type. Displayed message is first alarm message of PATH 1.



■Emphasized Alarm

Alarm tiles are enlarged when “Emphasize Alarm on Tile View” turn ON in 4-10-4 System Setting screen. “...” means there are multiple alarms occurred.



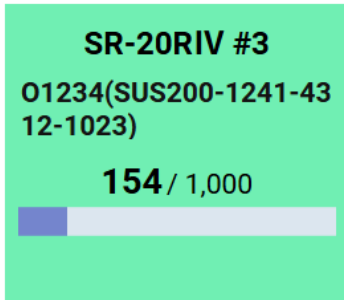
■Disconnect (Tile view)

Disconnected machines are displayed as grey tile.



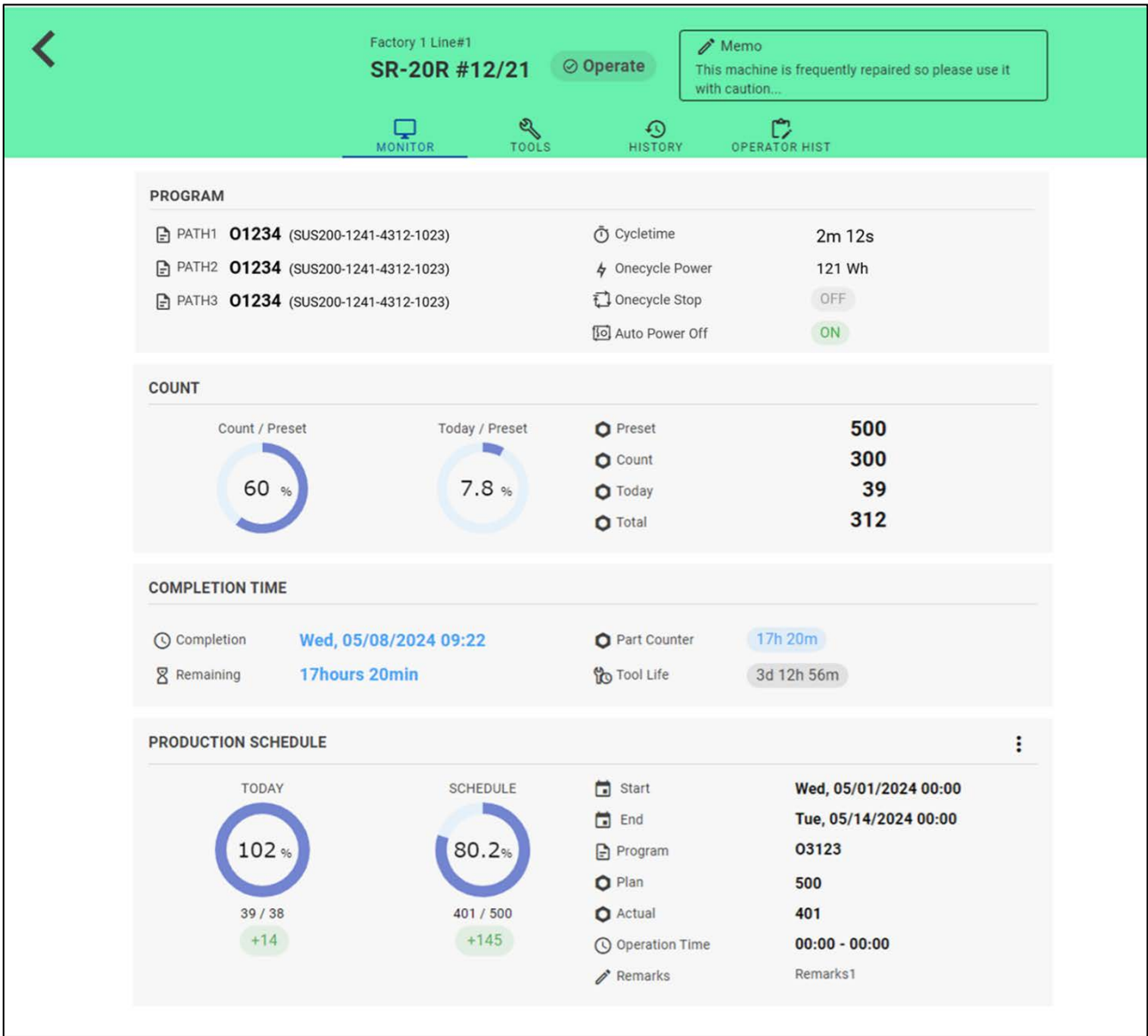
■ Show Program in Tiles

If “Show Program in Tiles” is enabled in the settings screen, the PATH1 program name and comment are displayed on the tile

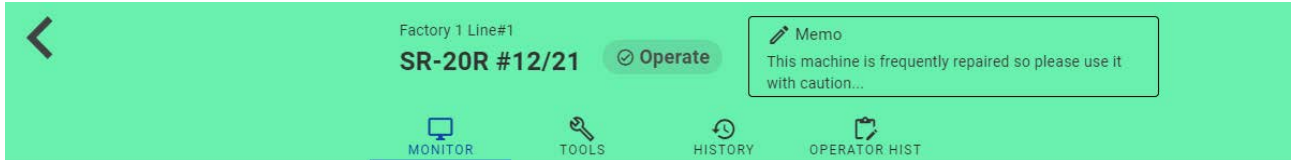


4-5 Machine Dashboard

Click machine name or tile on the Monitor screen to display Machine Dashboard screen.
Select “MONITOR”, “TOOLS”, “HISTORY” and “OPERATOR HIST” tabs to switch display.



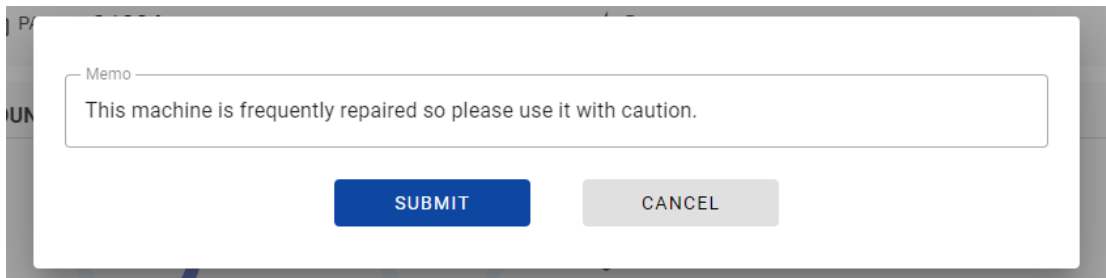
■Header



Items	Contents
Group1, 2, Machine Name	Group1, 2, Machine Name
Status	Status with color and icon
Memo	Machine memo Click here to open memo edit dialog.

■Memo

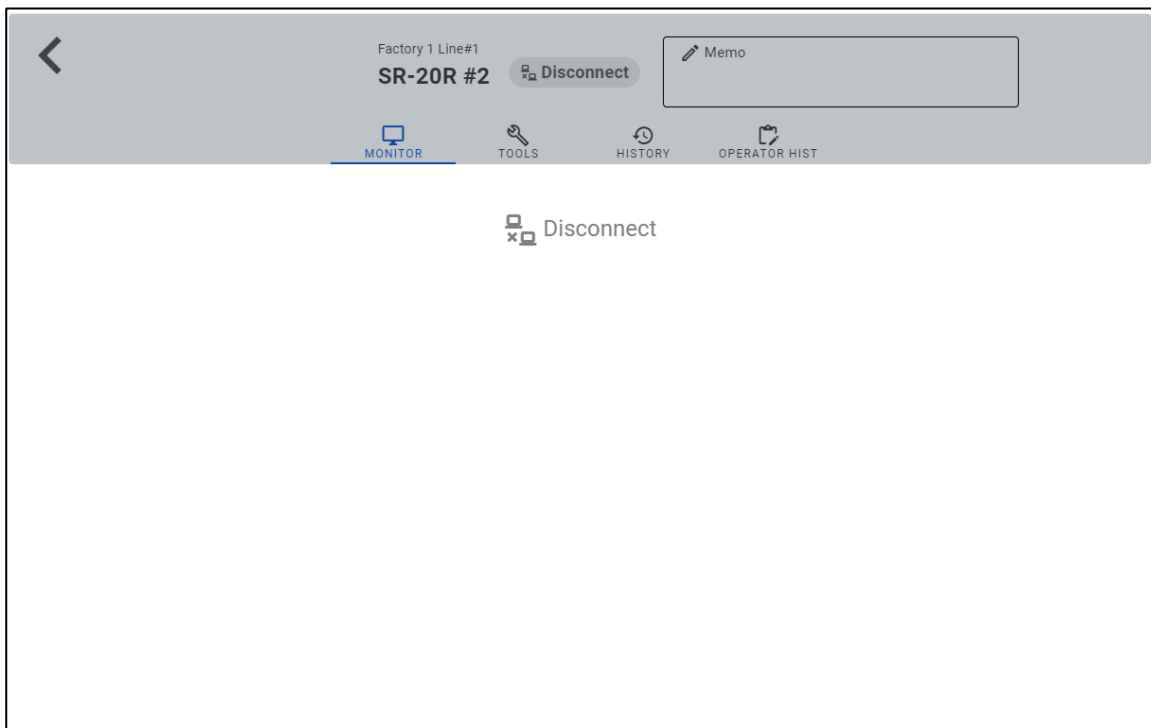
Edit and submit memo.



A screenshot of a memo submission dialog box. The dialog has a white background and a gray border. At the top, there is a label "Memo" followed by a text input field containing the text "This machine is frequently repaired so please use it with caution." Below the input field, there are two buttons: a blue "SUBMIT" button and a gray "CANCEL" button.

■Disconnected machine

“MONITOR” and “TOOLS” are blank page when machine status is disconnect.



4-5-1 Monitor

Monitor information is displayed when machine is not disconnected.

■MESSAGES

Alarm messages of each path and operator messages are displayed.

MESSAGES

Alarm

PATH 1 EX1142 REWIND TO TOP OF PROGRAM

PATH 1 EX1000 EMERGENCY STOP

PATH 1 EX1142 REWIND TO TOP OF PROGRAM

Operator

2085 TOOL LIFE COUNTER COUNT UP

2070 COUNT UP

Items	Contents
Alarm	Alarm no and messages
Operator	Alarm no and messages

■PROGRAM

Program and comment of each path, cycle time, one cycle stop and power consumption are displayed.

PROGRAM

PATH1 01234 (SUS200-1241-4312-1023)

PATH2 01234 (SUS200-1241-4312-1023)

PATH3 01234 (SUS200-1241-4312-1023)

Cycletime

Onecycle Power

Onecycle Stop

Auto Power Off

2m 12s

121 Wh

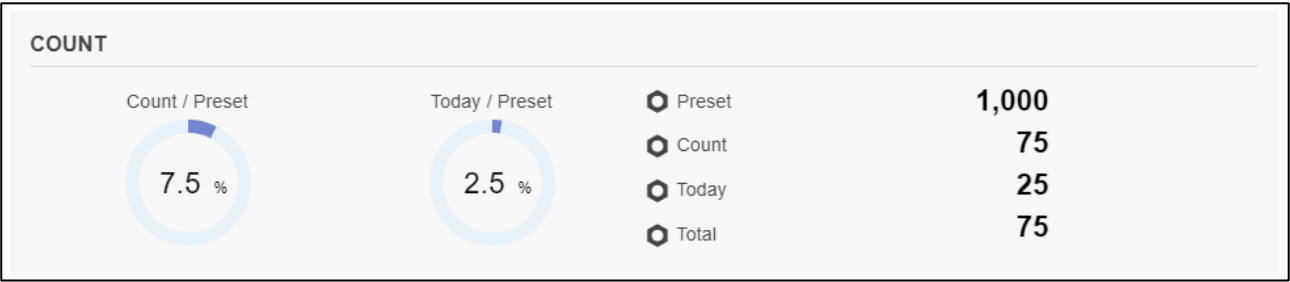
OFF

ON

Items	Contents
PATH1 - PATH3	Programs and comments of each path
Cycle time	Current cycle time
Onecycle Power	Power consumption per one cycle
Onecycle stop	One cycle stop ON/OFF
Auto Power Off	Auto Power Off ON/OFF

■COUNT

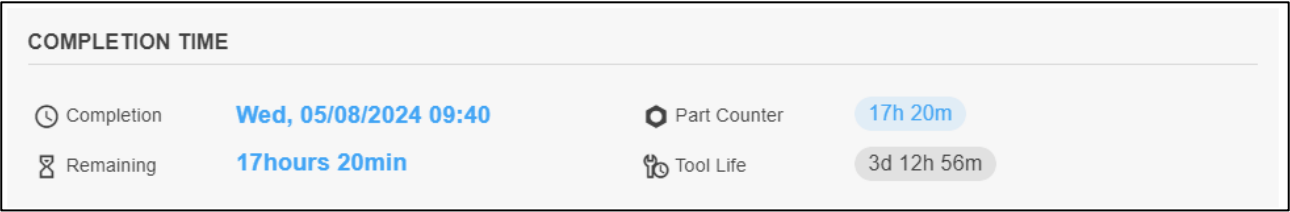
Machine count against preset and today's count against preset are displayed as donut charts. Machine preset, count, today's count and machine total are displayed as numbers.



Items	Contents
Count / Preset (Chart)	Donut chart of machine count against machine preset
Today / Preset (Chart)	Donut chart of today's count against machine preset
Preset	Machine preset
Count	Machine count
Today	Accumulated count since today's operation started
Total	Machine total

■COMPLETION TIME

Completion time is displayed. Shown values here are same as 4-4-4 Completion Time List screen.



Items	Contents
Completion	Estimated completion date and time
Remaining	Remaining time until completion time
Part Counter	Remaining time until part counter reaches. “OFF” is displayed when part counter is OFF.
Tool Life	Remaining time until tool life counter reaches “OFF” is displayed when tool life counter is OFF.

■PRODUCTION SCHEDULE

<No production schedules>

“No enable schedules” is displayed when machine have no production schedules.

Click “+” button to add a production schedule. (See 4-7 Production Schedule)

PRODUCTION SCHEDULE	+
No enable schedules.	

<During production schedule>

Information of current production schedule is displayed.

When there exist multiple schedules, schedule whose start date and time is the earliest is displayed.


Click “...” button to edit or delete schedule. (See 4-7 Production schedule)

PRODUCTION SCHEDULE		⋮	
<div>Today</div> <div><div>59.5 %</div><div>25 / 42</div><div>-5</div></div>	<div>Schedule</div> <div><div>8.3 %</div><div>25 / 300</div><div>-6</div></div>	<div>Start</div> <div>Tue, 05/07/2024 09:00</div>	
		<div>End</div> <div>Tue, 05/14/2024 09:00</div>	
		<div>Program</div> <div>O1111</div>	
		<div>Plan</div> <div>300</div>	
		<div>Count</div> <div>25</div>	
		<div>Operation Time</div> <div>9:00 - 19:00</div>	
		<div>Remarks</div> <div></div>	

Items	Contents
Today (Chart)	Donut chart of today’s count against today’s plan. (Same as “Today” value on 4-4-3 Progress List screen.)
Schedule (Chart)	Donut chart of count from the start of schedule against plan. (Same as “Plan” value on 4-4-3 Progress List screen.)
Start / End	Start or End date and time of the schedule
Program	Program of the schedule
Plan	Plan of the schedule
Actual	Accumulated count since the start of the schedule
Operation Time	Operation time setting of the machine
Remarks	Remarks1 of the schedule

4-5-2 Tools

Tools information are displayed when machine is not disconnected.


 Tools

Tool Life Counter

ON

Non-Stop Hours

17:00 - 8:00

 DOWNLOAD

☐ Show All

Number	Preset	Count	Remaining Count	Preset(Time)	Count(Time)	Remaining	Notice
100	9999	3724	6275	-	-	2d 16h 54m	0
200	9999	3727	6272	-	-	2d 16h 52m	0
300	99999	6206	93793	-	-	40d 10h 14m	0
400	8000	6206	1794	-	-	18h 33m	0
500	99999	5575	94424	-	-	40d 16h 45m	0
600	99999	5575	94424	-	-	40d 16h 45m	0
1100	90000	6206	83794	-	-	36d 2h 48m	0
1200	13000	6206	6794	-	-	2d 22h 16m	0
1300	99999	6206	93793	-	-	40d 10h 14m	0
1400	99999	6206	93793	-	-	40d 10h 14m	0

Items per page: 10 1-10 of 10 < > >|

Items	Contents
Tool Life Counter	Tool life counter ON/OFF
Non-Stop Hours	Setting value of NON-STOP TIME PERIOD when “SETTING OF NON-STOP TIME PERIOD” is ON.
Show All	Check this box to display all tools including ineffective ones or tools which cannot be used on the machine.

■Screen example for the case only with M20 count mode

Number	Preset	Count	Remaining Count	Preset(Time)	Count(Time)	Remaining	Notice
100	1000	970	30	-	-	1h 36m	100
300(3)	1500	210	1290	-	-	2d 20h 48m	100
500(5)	1000	850	150	-	-	8h 0m	100
200B(2)	1000	20	980	-	-	2d 4h 16m	100
400B(4)	800	300	500	-	-	1d 2h 40m	100
Items per page: 10 1-5 of 5 < < > >							

■Screen example for the case of combined use of M20 count mode and cutting time mode

Number	Preset	Count	Remaining Count	Preset(Time)	Count(Time)	Remaining	Notice
100	1000	970	30	-	-	1h 36m	100
300(3)	-	-	-	1m 0s	30s	1h 36m	100
500(5)	1000	850	150	-	-	8h 0m	100
200B(2)	1000	20	980	-	-	2d 4h 16m	100
400B(4)	-	-	-	1m 0s	40s	1h 4m	100
Items per page: 10 1-5 of 5 < < > >							

■Screen example for the FANUC CNC standard function

Path	Group	Number	Preset	Count	Remaining Count	Preset(Time)	Count(Time)	Remaining	Notice
1	11	1(1)	1000	1000	0	-	-	-	100
1	11	2(1)	1000	0	1000	-	-	22h 56m	100
1	11	3(1)	1000	200	800	-	-	-	100
2	22	1(2)	2000	150	1850	-	-	3d 12h 51m	200
2	22	2(2)	2000	1	1999	-	-	-	200
2	33	1(3)	-	-	-	16m 40s	0s	22h 56m	-
2	33	2(3)	-	-	-	10m 0s	0s	-	-
Items per page: 10 1-7 of 7 < < > >									

■Screen example for the MITSUBISHI CNC

Path	Number	Preset	Count	Remaining Count	Preset(Time)	Count(Time)	Remaining	Notice
1	100	1000	250	750	8m 20s	2m 30s	5h 50m	-
1	200	1000	300	700	8m 20s	5m 0s	3h 20m	-
2	300	1000	400	600	8m 20s	6m 40s	1h 40m	-
2	400	600	0	600	8m 20s	8m 10s	10m	-
2	500	700	0	700	8m 20s	8m 10s	10m	-
Items per page: 10 1-5 of 5 < < > >								

■ Table

Items	Contents
Path	Path No. Displayed in the case of FANUC CNC standard functions and MITSUBISHI CNC
Group	Tool group No. Displayed only in the case of FANUC CNC standard functions
Number	<p>■Machines by number Counter No. is displayed.</p> <p>■Machines by tool number Tool No. is displayed. When tool unit which can attach multiple tools is selected, the rank in the unit displays in parenthesis. That of the back-machining tool is “B”.例 e.g.) 100 : This means Tool of No.100. In the case of the unit which can attach multiple tools, this means the first tool (whose last digit of ID is “1”). 3400(2) : Tool of No. 3400 can attach multiple tool and this means the second tool (whose last digit of ID is “2”) 4000B(3) : Tool of No. 4000 can attach multiple tools and this means the third tool (whose last digit of ID is “3”)</p> <p>■FANUC CNC (standard functions) Serial number in group and tool number in parentheses are displayed.</p> <p>■MITSUBISHI CNC Counter No. is displayed.</p>
Preset	Current Preset value (M20 count mode)
Count	Current Count value (M20 count mode)
Remaining Count	Preset minus Count
Preset (Time)	Current Preset value (cutting time mode)
Count (Time)	Current Count value (cutting time mode)
Remaining	Estimated remaining time of tool life
Notice	The criteria number of notices

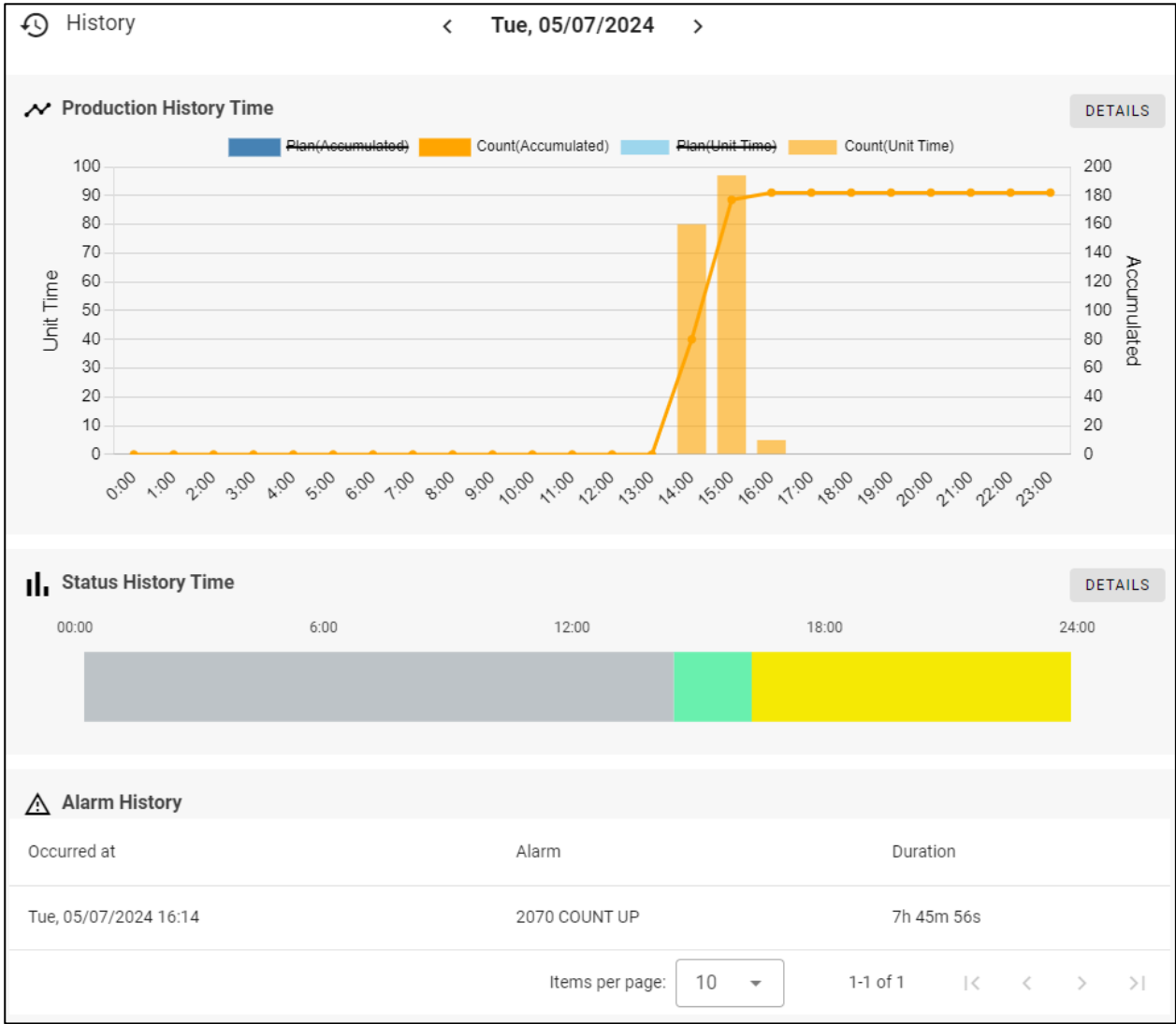
NOTICE



- Values on this screen change when the value of parts counter is renewed thus the changing value on the screen of machine is not reflected to this screen immediately
- When checking the box of “Show All”, data of tool number which cannot be used on the machine is also displayed
- FANUC CNC standard function is used in SK-51.

4-5-3 History

Production History by time, Status History and Alarm History for selected date are displayed.



Items	Contents
Date	Select date to show the history. This can be selected from past including today.
Production History (Time)	Production history per each hour on selected date Click “DETAILS” to open 4-6-4 Production History screen.
Status History (Time)	Status History on selected date Click “DETAILS” to open 4-6-1 Status History screen.
Alarm History	Alarms occurred at selected date

4-5-4 Operator History

Defective History and Operator History for selected date are displayed.

Operator History

<

Tue, 05/07/2024

Defective Record 2

Tool Change 1

Maintenance History

+ CREATE

DOWNLOAD

DateTime	Defectives	Remarks1	Remarks2	Remarks3	Operation
Tue, 05/07/2024 16:28	15	visual inspection 3-1	M. Smith		⋮
Tue, 05/07/2024 16:30	3	Inspection #1	M. Smith		⋮

Items per page: 8

1-2 of 2

|<

<

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>|

Items	Contents
Date	Select date to show the history. This can be selected from past including today.
Defective Record	Defective Record (See 4-8-1 Defective Record)
Operator History	Records of Operator History (See 4-8-2 Operator History)

4-6 History

Select “History” from main menu to display History screen. Click Filter condition panel at the top of the screen to open the filter screen.

■ Filter condition panel

 Filter

 Period

Mon, 05/06/2024 16:00 - Tue, 05/07/2024 15:08

Group1


All

Group2

All

Machine

All

NOTICE

▪ This software communicates with machine by specific time span to collect information therefore status changing in short time may not be recorded as history.

■ History filter

Click “FILTER” button after set filter conditions.

Filter

Period

From

2024/05/06 16:00

To

2024/05/07 15:08

This month

This week

Today

☐ Now

Machine

Group1

All

Group2

All

Machine

All

Unit Time

24

Program

Comment

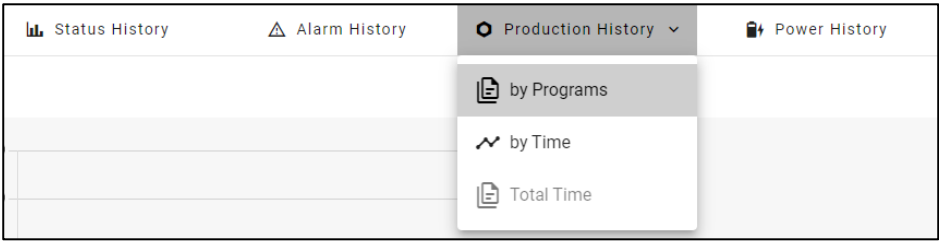
FILTER

CANCEL

Items	Contents
Period (Start)	Select start date and time. When clicking “This month”, 1 st of this month is set as start date. (*) When clicking “This week”, start of this week (Sunday) is set. (*) When clicking “Today”, today is set as start date. (*) (*) Start time is set to be operation start time. If operation time is not set, 00:00 is set as start time.
Period (End)	Select end date and time. Set current date and time as end when “Now” is clicked.
Group1, 2	Select Groups from the list.
Machine	Select machines from the list. If group 1 or 2 is selected, machines belong to selected groups can be selected. If “All” is selected, all machines belong to selected groups are filtered.
Unit Time	Select time span for 4-6-6 Production History screen.
Program/ Comment	Select program and comment for 4-6-5 Production History screen.

■History Menu

Select History kind to display from the history menu.





4-6-1 Status History Rate

Select Status History from history menu to display Status History Rate screen.

Status changes in specified period and machines are confirmed.

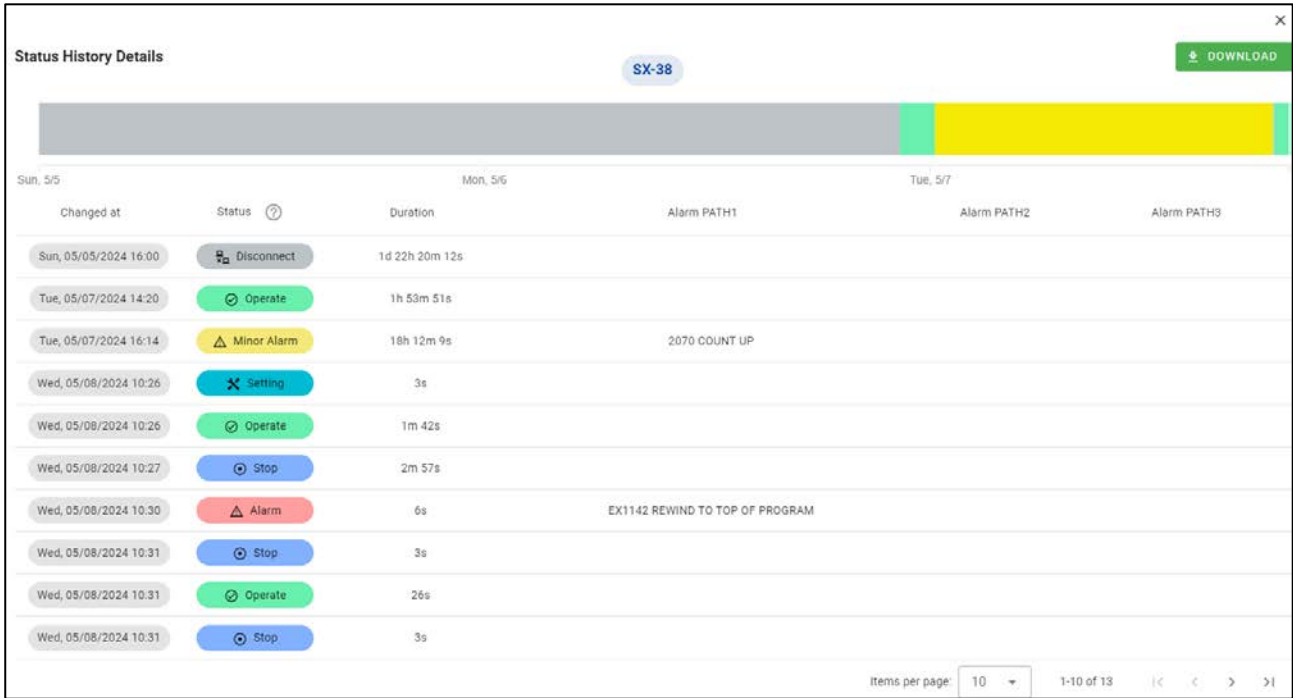


Items	Contents
Machine	Group 1,2 and machine name
Status (Bar chart)	Time bar chart of machine status
Rate Operate - Disconnect	Time rate of each status against the specified period
Power	Power consumption If all displayed machines don't have corresponding function, this column is not displayed.
Detail	Click following icon to open Status History Detail screen.  Click following icon to open Status History Daily screen. 

4-6-2 Status History Details

Click Button on Status History screen to open Status History Details screen.

Detail status changes in specified period and machine are confirmed.



Items	Contents
Changed at	Date and time on which status changed
Status	Machine status
Duration	Duration of one status
Alarm PATH1 – PATH3	Alarm messages up to five alarms for each path when machine status is alarm or minor alarm.

4-6-3 Status History Daily

Click Button on Status History screen to open Status History Daily screen.

Daily status changes of specified period and machine are confirmed



Items	Contents
Date	Date
Status	Time bar chart of status from 00:00 to 24:00
Rate Operate - Disconnect	Rate of each status to 24hours
Power	Daily power consumption (Only for machines that support corresponding function.)

4-6-4 Alarm History

Select Alarm History from history menu to display Alarm History screen.

You can confirm occurred alarms and analyze trend of them.



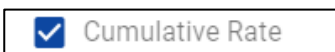
Items	Contents
Alarm	Alarm No.
Message	Alarm message
Count	The number of times for alarm generation
Rate (Count) (%)	The percentage of the number of alarm generation times as for total of specified period
Time	Total time of alarm generating time until canceled.
Rate (Time) (%)	The percentage of the time of alarm generation as for total of specified period.

■Switch Count / Time display



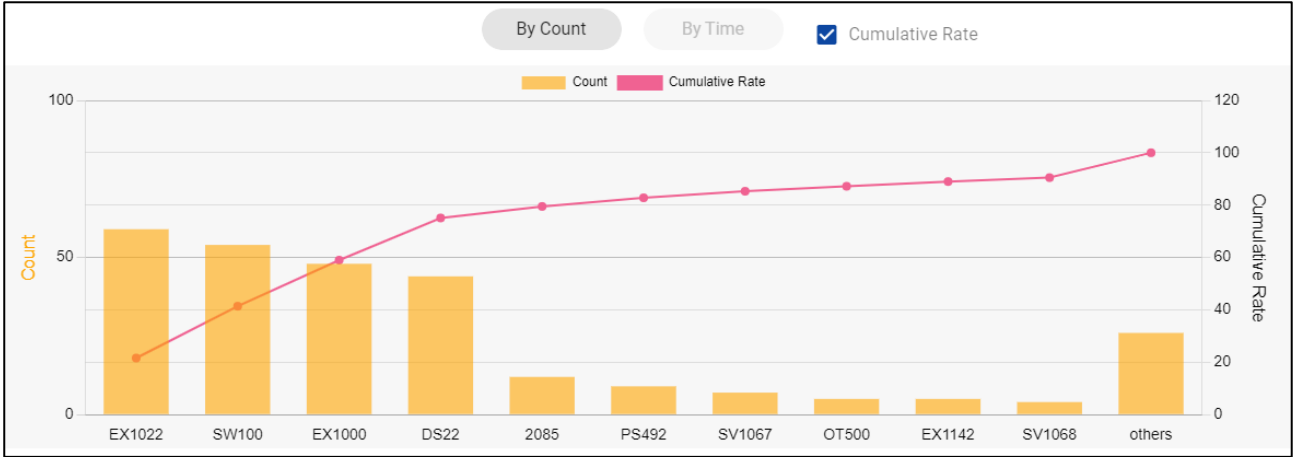
Click “By Count” or “By Time” button on the screen to switch counter-based display or time-based display.

■Show Cumulative rate chart

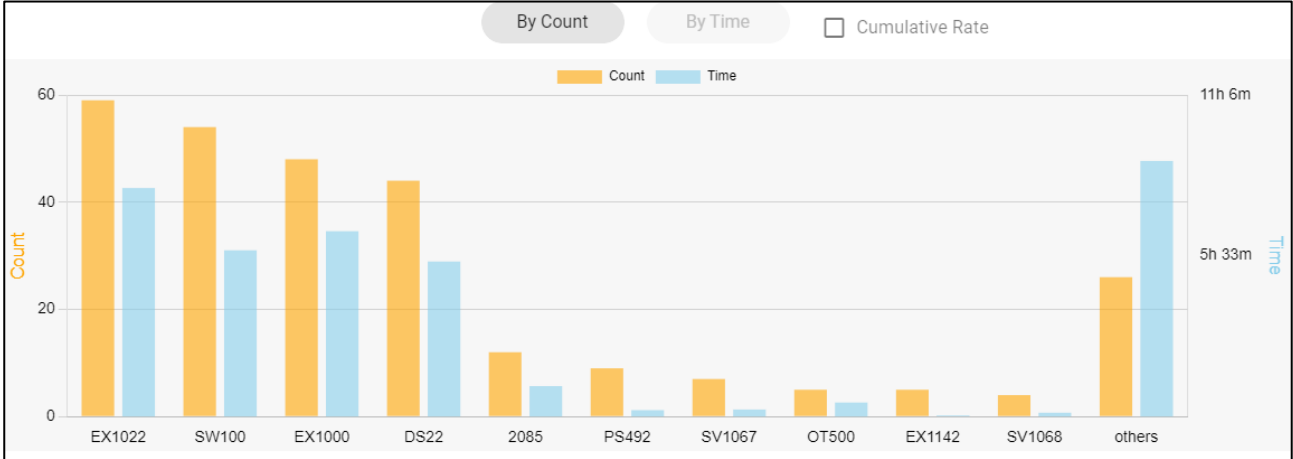


Check “Cumulative Rate” to show cumulative rate chart on the count/time chart.

<Cumulative rate ON>

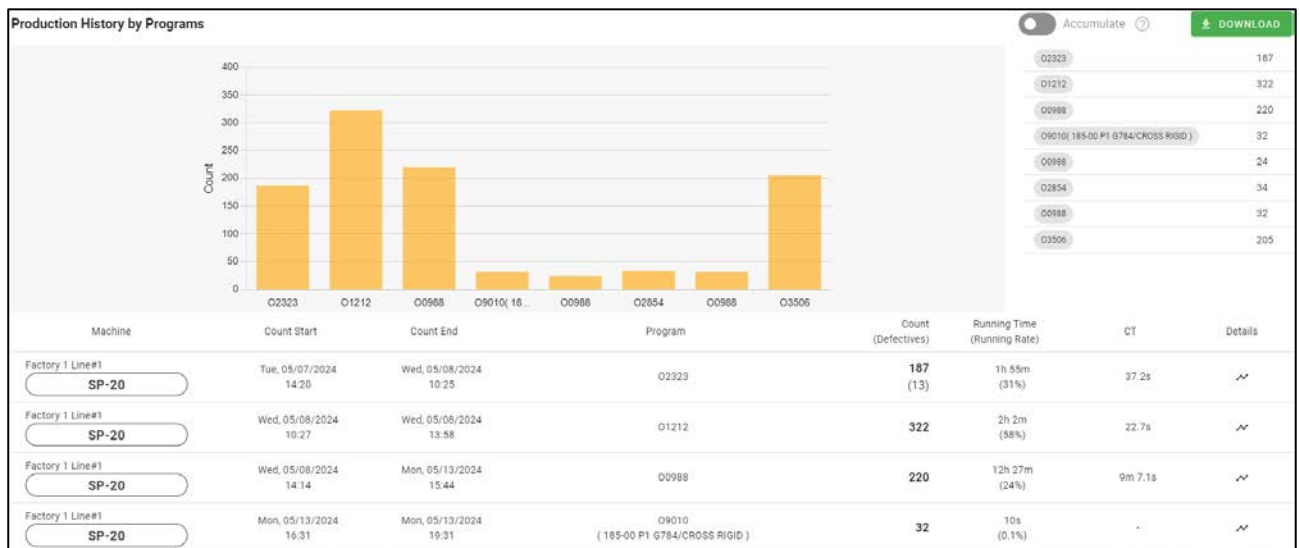


<Cumulative rate OFF>

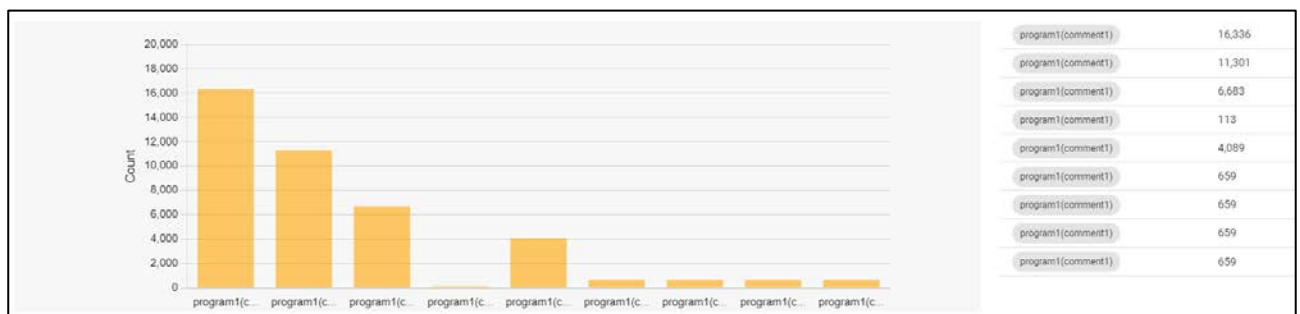


4-6-5 Production History by Programs

Select “Production History > by Programs” from history menu to display Production History by Programs screen. The number of productions and running time of machine for each NC programs are displayed.



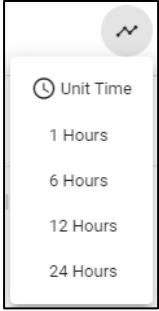
■Count chart



The chart shows number of counts (>0) tallied up by program for each machine listed in the table. If the count is 0, it does not appear on the chart. The count value is shown on the list on the right.

■Table

Items	Contents
Machine	Group 1,2 and machine name
Count Start	The date and time when first count is counted after program is selected.
Count End	The date and time when first count is counted after program is changed.
Program (Comment)	The name of main program selected on PATH1, and the comment described at the program top.
Count (Defectives)	The number defective is subtracted from the number of the parts machined. The number of defectives set in 4-8-1 Defective Record screen.
Running Time (Running Rate)	The time machine operated. Rate of running time against total operation time

CT	Median (the middle number of the cycle time) (*2)
Detail	<p>Click icon and select unit time to display production history per time.</p> 

(*1) The time at which program changed is displayed when there are no production counts on the NC program after selecting a program.

(*2) Cycle time

Median are calculated from all cycle time data recorded per parts counter. Record of following cases are excluded from the calculation.

- Three seconds or less.
- Other than continuous operation

NOTE



Difference of Average and Median

- Median: calculated with the cycle time **excluding** the time for bar changing by automatic bar feeder.
When aligning all number of the cycle time record in ascending order, the just central number of the column becomes Median.
- Average: calculated with all cycle time **including** the time for bar changing.

■Accumulate counts

Switch to “Accumulate” to display the counts in the same (*1) programs added up on the graph.

(*1) “same” means program and comment on PATH1 perfectly match up.

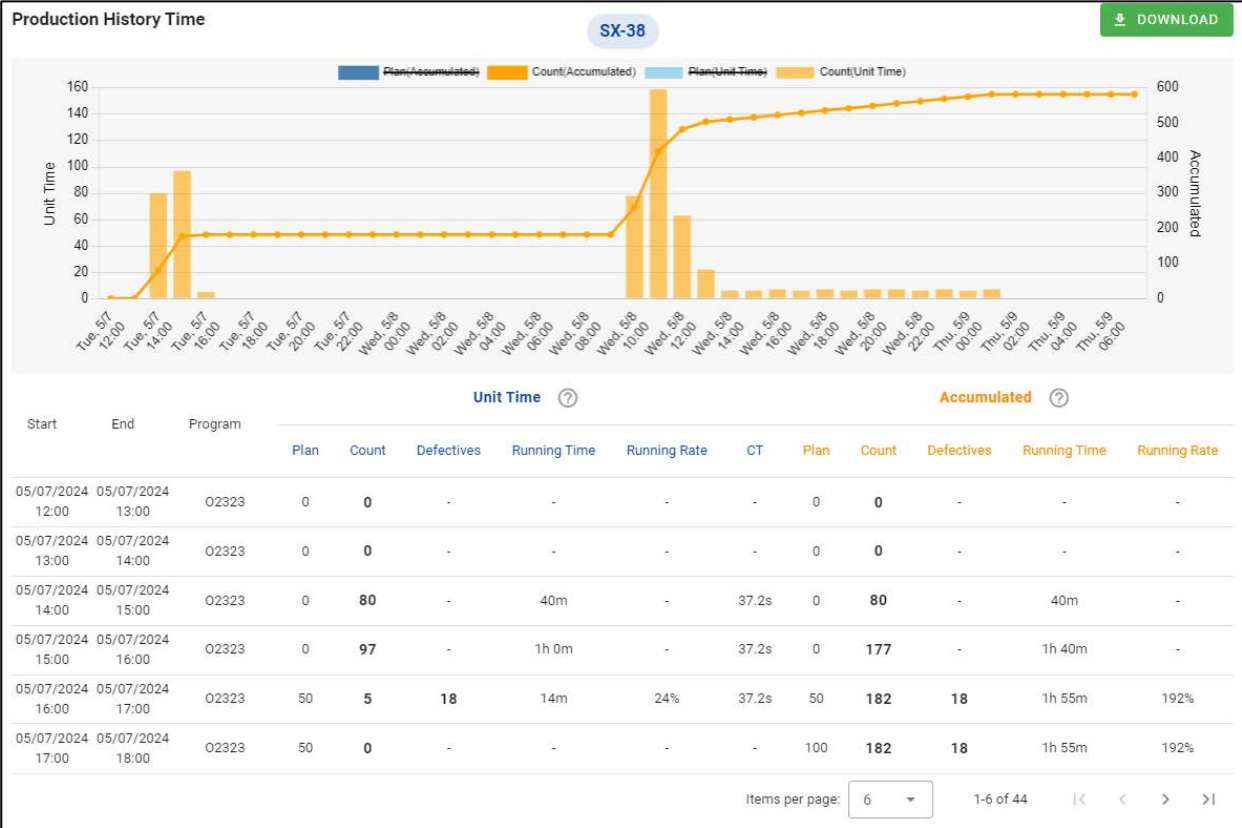


4-6-6 Production History by Time

Select “Production History” >> “by Time” from history menu to display Production History by Time screen. The number of productions against the plan for each unit times are displayed.

■ For single machine selected

Following screen is displayed when single machine is selected on the filter screen.

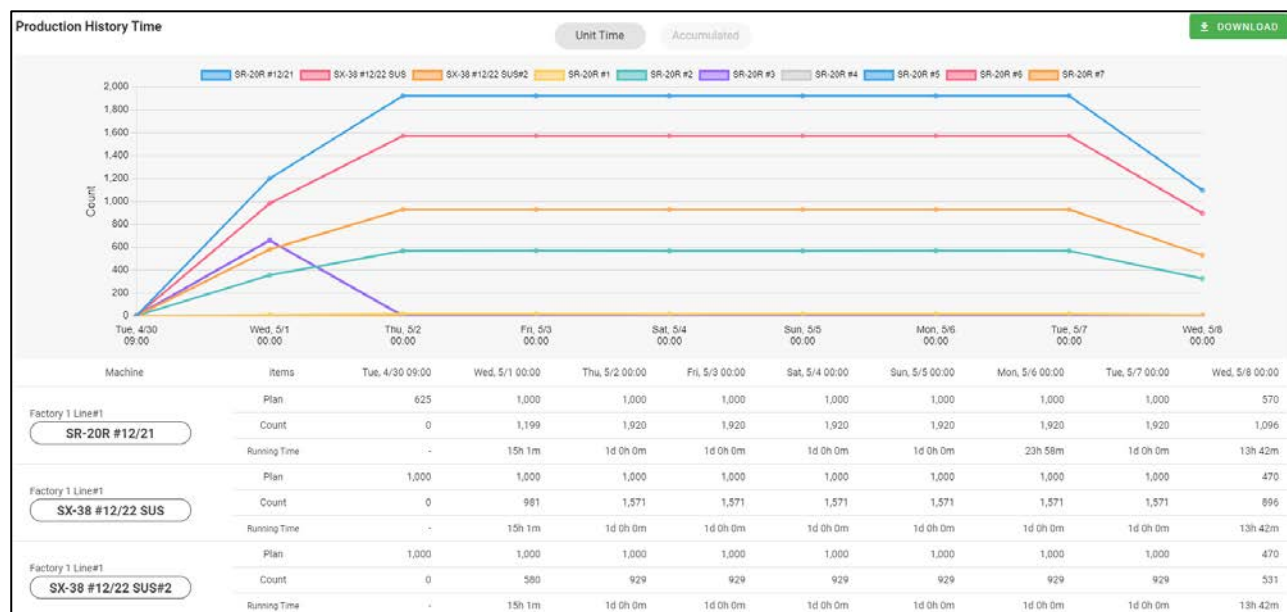


Items	Contents	
Machine	Group1,2 and machine name	
Start / End	Star and End date and time to cumulative	
Program	The name of the main program selected on PATH 1 and comment described at the top of the program	
Unit Time / Accumulated	Plan	The number of planned production (*1)
	Count	Cumulative count from Start to End when “Unit Time” is selected. Cumulative count from start of history to End when “Accumulated” is selected.
	Defectives	The number of defectives set in 4-8-1 Defective Record screen.
	Running Time	The time machine operated.
	Running Rate	Rate of running time against total operation time
	CT	Median (the middle number of the cycle time)

■ For multiple machines selected

Following screen is displayed when multiple machines are selected,

Click “Unit Time” or “Accumulated” buttons to switch displayed data to unit time or accumulated.



Items	Contents
Machine	Group1,2 and machine name
Unit Time / Accumulated	Change Unit time or Accumulated count
Plan	Number of planned production (*1)
Count	Count per unit time or accumulated from the start of the history.
Running Time	The time machine operated

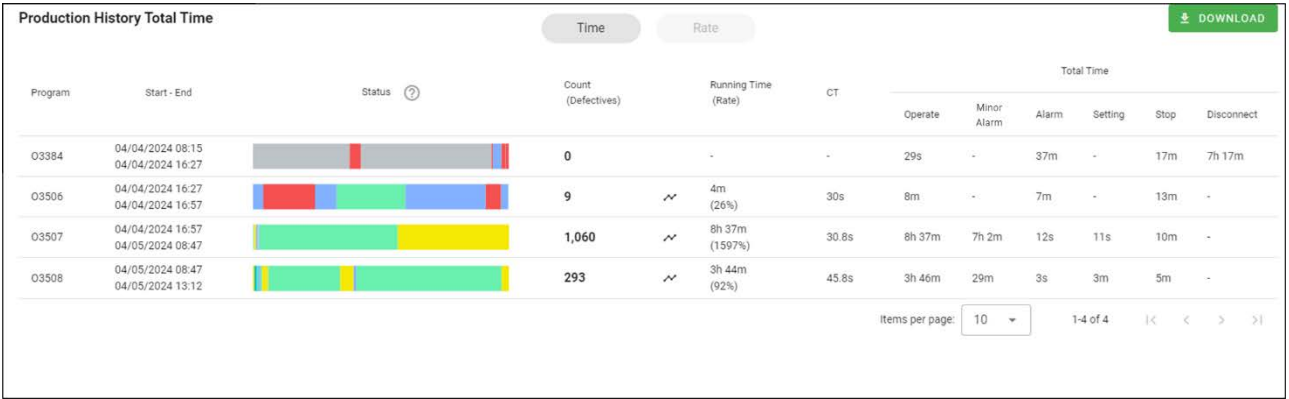
(*1) Displays the value of Plan (final planned quantity to be produced) set on 4-7 Production Schedule screen. When “Production schedule” is not set, value of Plan will be Preset value of the machine representing the quantity to be produced in a day. Zero is applied to Holiday and outside operating hours.

4-6-7 Production History Total Time


Select “Production History” >> “Total Time” from history menu to display Production History Total Time screen. Both production history and status history are displayed at once.

Note that this screen is for machines that operate according to the specific flow (*1).

“Total Time” button is shown on the history menu when “Show Production with Status History page” turn ON in the 4-100-4 system setting screen.



Click “Time” or “Rate” button to switch the status time or rate.

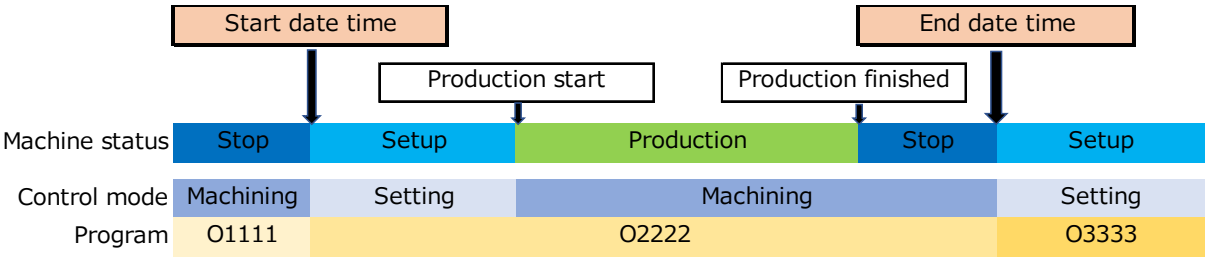
項目		内容
Program		The name of the main program selected on PATH 1
Start (*1)		The date and time when the control mode was changed from Machining to Setting before production
End (*1)		the date and time when the control mode was changed from Machining to Setting after production
Status (Bar chart)		Machine status history between the start time and the end time in a time bar graph. If "Rate" is checked, the rate of each status is displayed. Click chart to open 4-6-1 Status History Details screen.
Count		The number of counts minus the number of Defectives.
Defective		The number of defective products set in the 4-8-1 Defective Record screen
Line chart icon		Click icon to display 4-6-2 Production History by Time screen. 
Running Time		The time machine operated.
Running Rate (%)		Rate of running time against total operation time.
CT		Median (the middle number of the cycle time)
Total Time	Operate	The total time of each status between the start date and the end date and time. If "Rate" is selected, the rate of each status is displayed
	Alarm (Minor)	
	Alarm	

	Setting	
	Stop	
	Disconnect	

(*1) Assumed conditions

The start time and end times are set assuming that the production of the part is repeated in the flow shown in the figure below.

If not meeting the conditions, this screen may not be displayed correctly.



4-6-8 Power History

Select “Power History” from history menu to display Power History screen.

Note that data isn’t displayed when machines don’t have power consumption display function.

Click “Total” or “Daily” to switch displayed contents.

■Total



Items	Machines
Machine	Group1,2 and machine name
Power	Total Power during the period Hyphen is displayed when machine is disconnected, or corresponding function is not supported.
CO2 Emission	Total CO2 Emission
ECO Efficiency	Power reduction by ECO mode during selected period. 0 is displayed when ECO mode isn’t enabled during the period.
Details	Click “DETAILS” to open power detail screen

■Daily

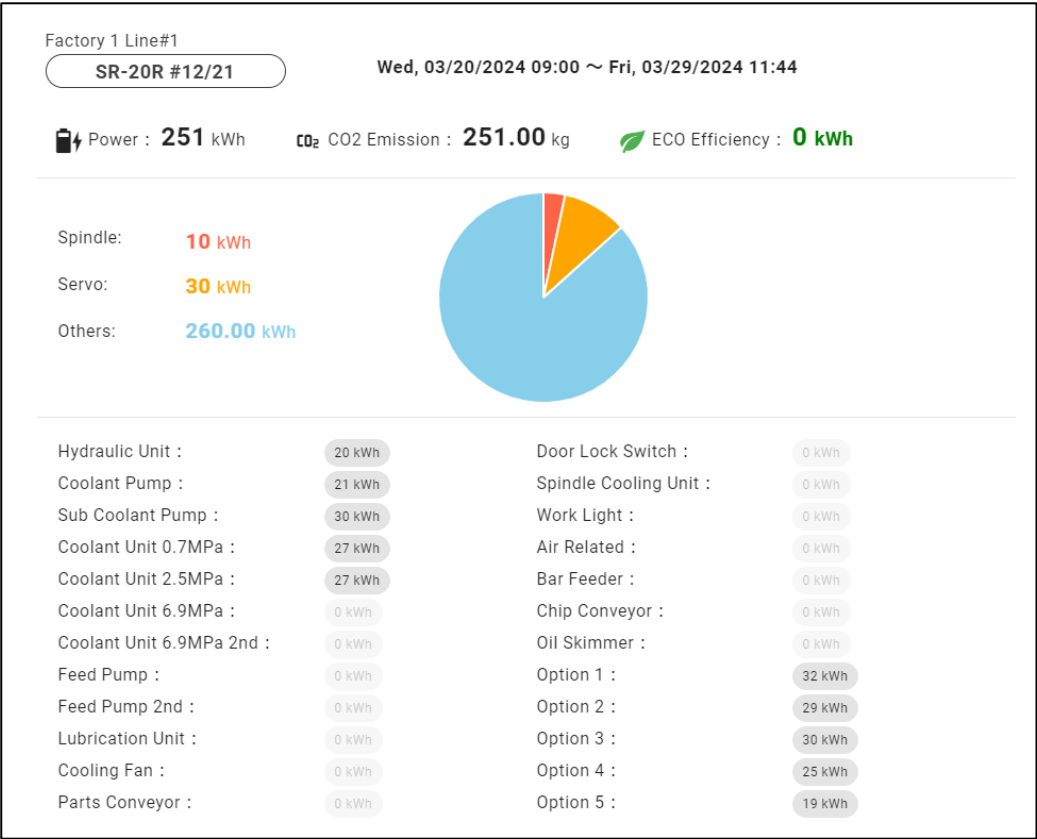
Power consumption per each date per machine are displayed as stacked line chart.



Items	Contents
Machine	Group 1, 2 and machine name
Power	Power consumption in a day

■Power Detail

Click “DETAIL” on power total screen to open Power Detail screen.



Items	Contents
Machine	Group1, 2 and machine name
Period	Filtered period (Same as filter condition panel)
Power	Total power during period
CO2 Emission	Total CO2 Emission
ECO Efficiency	Power reduction By ECO Mode
Spindle / Servo / Others	Power consumption of each unit
Hydraulic Unit - Option 5	Power consumption of each equipment

4-7 Production Schedule

Select “Production Schedule” from main menu to display Production Schedule screen. Click Filter condition panel at the top of the screen to open the filter screen.

Progress in 4-4-3 Progress List screen and plans in 4-6-6 Production History by Time screen are calculated based on values set in this screen.

■Filter

Click Filter condition panel at the top of the screen to open the filter screen.
Schedules including today for all machines are displayed on the initial display.

Filter

Period

Wed, 05/08/2024 - Wed, 05/08/2024

Group1

All

Group2

All

Machine

All

Filter

Period

From

2024/05/08

To

2024/05/08

This month

This week

Today

Machine

Group1

All

Group2

All

Machine

All

FILTER

CANCEL

Items	Contents
Period (Start)	Select start date. Set 1 st of this month as start date when “This month” is clicked. Set start of this week (Sunday) as start date when “This week” is clicked. Set today as start date when “Today” is clicked.
Period (End)	Select end.
Group1, 2	Select Groups from the list.
Machine	Select machines from the list. If group 1 or 2 is selected, machines belong to selected groups can be selected. If “All” is selected, all machines belong to selected groups are filtered.

■ Schedules List

Filter

Period

Sun, 03/10/2024

Fri, 05/10/2024

Group1

All

Group2

All

Machine

All

Production Schedule

+ BATCH CREATE

+ CREATE

search

Active only

GANTT CHART

DOWNLOAD

Machine	Program	Count / Plan	Start	End	Remaining days	Remarks1	Operation
Factory 1 Line#1	01234	17,533 / 3,000	Fri, 03/01/2024 09:00	Thu, 06/06/2024 14:00	28 / 98	びこう 1	
SR-20R #12/21		+15,369					
Factory 2 Line#3		0 / 3,000	Mon, 03/04/2024 09:00	Fri, 06/28/2024 09:00	49 / 117		
SR-20R #7		-1,740					
Factory 1 Line#2		659 / 1,000	Mon, 03/25/2024 09:00	Mon, 06/03/2024 09:00	24 / 71		
SR-20R #3		-2					
Factory 1 Line#1		14,345 / 3,000	Tue, 03/26/2024 09:00	Sat, 06/29/2024 09:00	50 / 96		
SX-38 #12/22 SUS		+12,914					
Factory 1 Line#1		17,533 / 300	Wed, 05/08/2024 00:00	Wed, 05/15/2024 00:00	5 / 8		
SR-20R #12/21		+15,369					

Items per page: 8

1-5 of 5

Items	Contents
Machine	Group 1,2 and machine name
Program	Program name
Count / Plan	Actual count since start of the schedule and plan set in the schedule. Progress against the schedule is shown below the chart.
Start	Start of the schedule
End	End of the schedule
Remaining Days	Remaining days to the End
Remarks1	Remarks1 of the schedule
Operation	<p>Click chart icon and select unit time to open 4-6-6 Production History by Time screen.</p> <div> <div> Unit Time 1 Hours 6 Hours 12 Hours 24 Hours </div> </div> <p>Click “...” icon to copy, edit or delete schedule.</p> <div> <div> Copy Edit Delete </div> </div>

■ Search Form

Enter characters to partial search by program and remarks^{1,2,3} from the displayed schedules.

■ Active only

☐ Active only

Check Active only to show only schedules of which current date and time is included between start and end.

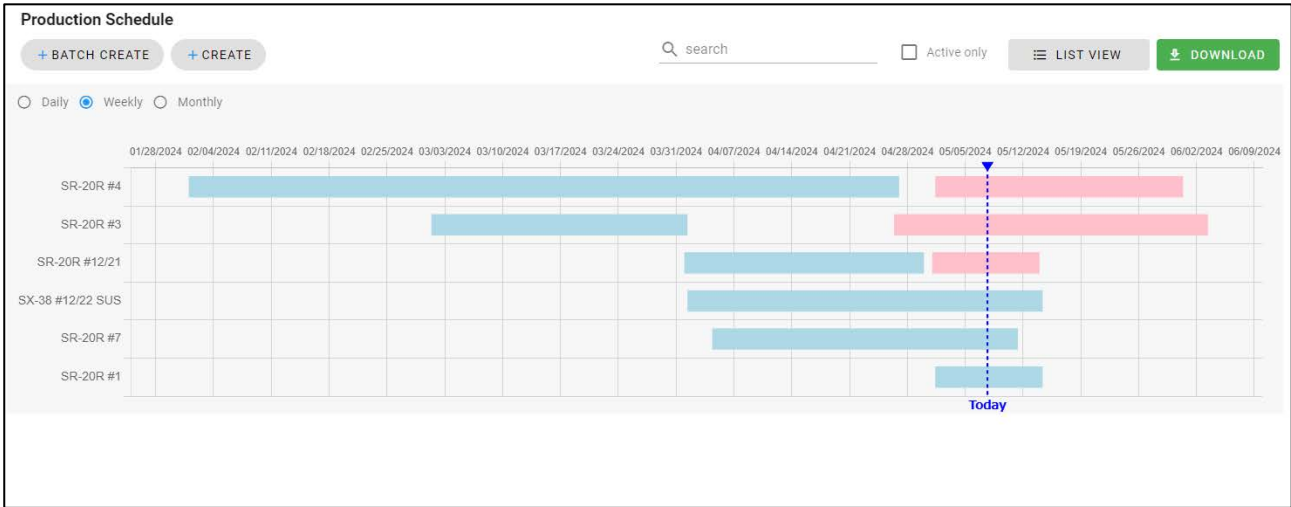
■ Gantt chart view

Click to display schedules as gantt chart view.

■Gantt Chart view

Schedules are displayed as gannt charts.

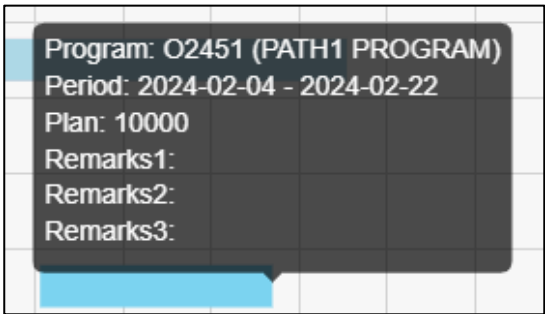
Red and blue bars show period of schedules alternately for each machine.



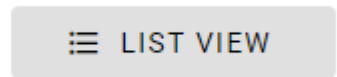
Change “Daily” “Weekly” “Monthly” buttons to change labels of chart.



Detail of schedules are popped-up when cursor is hover on the schedule.



Click “LIST VIEW” to back to the initial view.



■Create

Click “Create” or “BATCH CREATE” to open Production Schedule Create screen.

Production Schedule Create

Group1

All

Group2

All

Machine

SR-20R #12/21

Start

2024/05/07 09:00

End

2024/05/14 09:00

CALC

Plan

0

Program

Remarks1

Remarks2


Remarks3

SUBMIT

CANCEL

Items	Contents
Group1, 2, Machine	Select Machine(s). (*) Select Group1, 2 to filter machine list. (*) Multiple machines can be selected from “BATCH CREATE”
Start	Set end of the schedule.
End	Set start of the schedule.
CALC (*1)	Click button to open calculation form
Plan	Set the number of products to be produced.
Program	Set program.
Remarks1,2,3	Enter remarks1 to 3.
Submit	Submit schedule.
Cancel	Close the create window.

NOTICE



▪ Production schedules set in this screen are only used in the SMOOSS-i. No data or value are sent to the machines, and nothing can affect the control of the machines.

(*1) Calculation form

Click “CALC” button to open the calculation form to input values.

Start 2022/12/20 00:00		End 2022/12/26 12:15		CALC ^
cycletime(sec) 75	efficiency(%) 100	Setup Time(min) 45		
production time 2d 14h 30m	require production time 2d 15h 15m	total production time 6d 12h 15m		SET
Plan 3000		Program		

Enter cycle time, efficiency, setup time and Plan and click “SET”, End date and time is automatically calculated and set.

Items	Contents
Cycle time (sec)	Set cycle time by seconds.
Efficiency (%)	Set efficiency rate.
Setup Time (min)	Set setup time by minutes.
Production time	“Cycle time” * “Plan”
Require production time	“Production time” + “Stop time” Stop time = “Setup time” + “Production time” * (100/ Efficiency – 1)
Total production time	“Production time” + “Stop time” + “Non-operation time” Non-operation time is calculated considering operation start time, operation end time and holidays.

■Edit

Click “Edit” button in the operation icon on schedule list to edit production schedule.
Selected machine cannot be changed.

Production Schedule Edit

Group1
Factory 1

Group2
Line#1

Machine
SX-38 #12/22 SUS

Start
2024/04/01 09:00

End
2024/05/14 09:00

CALC

Plan
3000

Program
O1111

Remarks1

Remarks2

Remarks3

SUBMIT

CANCEL

■Copy

Click “Copy” button in the operation icon on schedule list to open production schedule create screen with selected data.

Production Schedule Create

Group1
Factory 1

Group2
Line#1

Machine
SR-20R #12/21

Start
2024/04/01 00:00

End
2024/04/30 00:00

CALC

Plan
500

Program
O3123

Remarks1

Remarks2

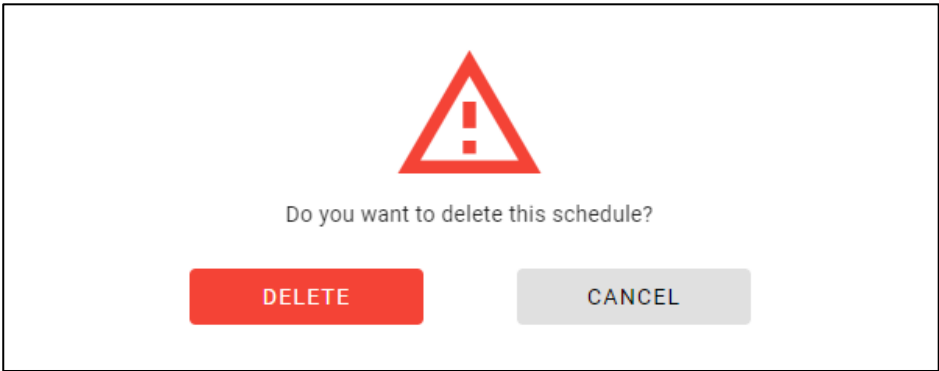
Remarks3

SUBMIT

CANCEL

■Delete

Click “Delete” button in the operation icon of schedule list to delete production schedule.
Click “DELETE” in the warning dialog to delete item.

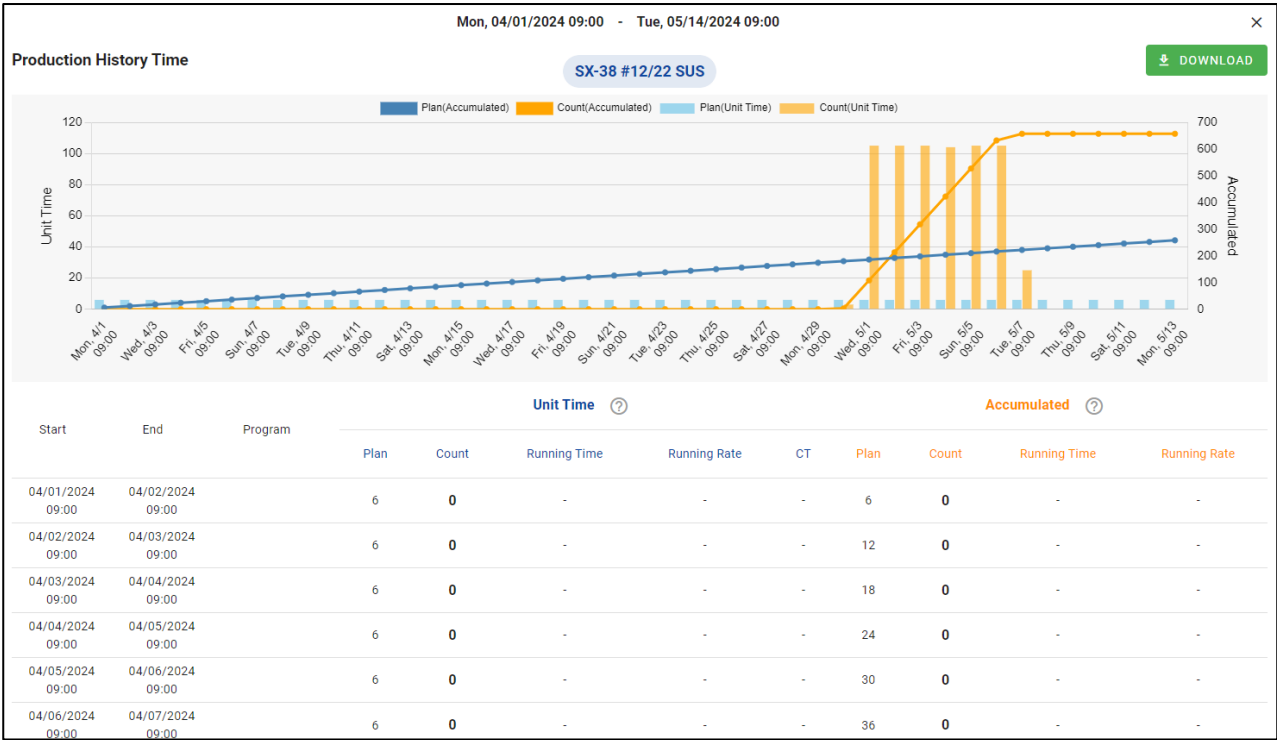


NOTICE

Deleted data cannot be restored.

■Production History by Time

Click history icon on the schedule list to open Production History by Time screen.
Progress against the schedule is displayed visually and easy to confirm.



4-8 Operator History

Select “Operator History” from main menu to display Operator History screen.
Defective Records or Operator History with customized format can be created.

Operator History

Defective Record

Tool Change Histor...

Maintenance History

Daily Report

+

+ CREATE

DOWNLOAD

Machine	DateTime	Defectives	Remarks1	Remarks2	Remarks3	Operation
Factory 1 Line#1 SX-38 #12/22 SUS	Mon, 01/08/2024 16:49	3	Cause is under investigation.			
Factory 1 Line#1 SR-20R #12/21	Fri, 01/12/2024 14:48	3	Chattering has occurred	M. Smith		
Factory 1 Line#1 SR-20R #12/21	Wed, 02/14/2024 13:13	5	Chattering			
Factory 1 Line#1 SR-20R #12/21	Wed, 02/14/2024 14:48	5	Cause were unknown.	Add defective parts	Schedules should be fixed.	
Factory 1 Line#1 SR-20R #12/21	Wed, 02/21/2024 13:30	2	The cause is under investigation currently.			
Factory 1 Line#1 SR-20R #12/21	Thu, 02/29/2024 11:18	13				

Items per page: 8 1-6 of 6

■Filter condition panel

Filter condition panel is same as in 4-7 Production Schedule screen.

Filter

Period

Wed, 05/08/2024 - Wed, 05/08/2024

Group1

All

Group2

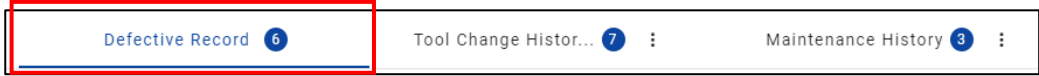
All

Machine

All

4-8-1 Defective Record

Select Defective Record tab to display Defective Record list.
The number with the circle icon shows the number of filtered records.



■Defective Record list

Defective in the 4-6-5 to 4-6-7 Production History screen is from the values set in this screen.

Operator History

Defective Record 6

Tool Change Histor... 7

Maintenance History 3

Daily Report 1

+

+ CREATE

DOWNLOAD

Machine	DateTime	Defectives	Remarks1	Remarks2	Remarks3	Operation
Factory 1 Line#1 SX-38 #12/22 SUS	Mon, 01/08/2024 16:49	3	Cause is under investigation.			
Factory 1 Line#1 SR-20R #12/21	Fri, 01/12/2024 14:48	3	Chattering has occurred	M. Smith		
Factory 1 Line#1 SR-20R #12/21	Wed, 02/14/2024 13:13	5	Chattering			
Factory 1 Line#1 SR-20R #12/21	Wed, 02/14/2024 14:48	5	Cause were unknown.	Add defective parts	Schedules should be fixed.	
Factory 1 Line#1 SR-20R #12/21	Wed, 02/21/2024 13:30	2	The cause is under investigation currently.			
Factory 1 Line#1 SR-20R #12/21	Thu, 02/29/2024 11:18	13				

Items per page: 8

1-6 of 6

< >

Items	Contents
Machine	Group1,2 and machine name
Date Time	Date and time when the data was created
Defectives	Set defectives
Remarks1,2,3	Remarks1,2,3
Operation	Click “...” icon to copy, edit or delete record. <div></div>

■Create

Click “Create” to open Defective Record Create screen.

Defective Record Create

Group1

All

Group2

All

Machine

SR-20R #12/21

DateTime

2024/05/08 12:07

Defectives

0

Remarks1

Remarks2

Remarks3

SUBMIT

CANCEL

Items	Contents
Group1, 2, Machine	Select Machine. Select Group1, 2 to filter machine list.
Date Time	Set date and time.
Defectives	Set the number of defective parts.
Remarks1,2,3	Enter remarks1 to 3.
Submit	Submit record.
Cancel	Close the create window.

■Edit

Click “Edit” button in the operation icon on defective record list to edit record.
Selected machine cannot be changed.

Defective Record Edit

Group1

Factory 1

Group2

Line#1

Machine

SX-38 #12/22 SUS

DateTime

2024/01/08 16:49

Defectives

3

Remarks1

Cause is under investigation.

Remarks2

Remarks3

SUBMIT

CANCEL

■Copy

Click “Copy” button in the operation icon on defective record list to open defective record create screen with selected data.

Defective Record Create

Group1

Factory 1

Group2

Line#1

Machine

SR-20R #12/21

DateTime

2024/05/08 12:08

Defectives

3

Remarks1

Chattering has occurred

Remarks2

M. Smith

Remarks3

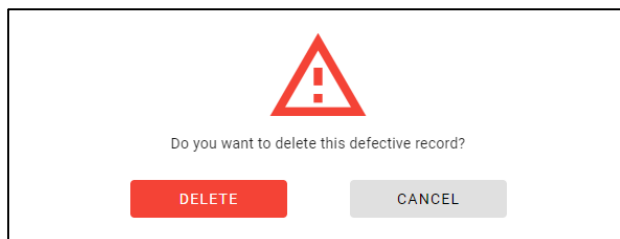
SUBMIT

CANCEL

■Delete

Click “Delete” button in the operation icon of defective record list to delete defective record.

Click “DELETE” in the warning dialog to delete item.



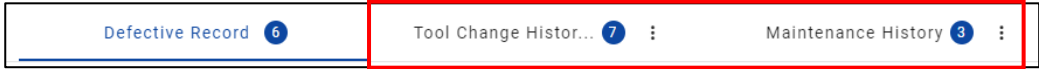
NOTICE



- Deleted data cannot be restored.

4-8-2 Operator History

Select Operator History tab (*1) to display Operator History records.
You can customize the format of the record and create or edit record from them.



(*1) Operator History tab is displayed tab except for “Defective Record”.

■Operator History list

Operator History					
Defective Record 2		Tool Change Histor... 4		Maintenance History	Daily Report
+ CREATE		DOWNLOAD			
Machine	DateTime	Tool No	Time(min)	Chip Change	Operation
Factory 1 Line#1 SR-20R #2	Mon, 01/22/2024 11:24	13	15	NO	
Factory 1 Line#1 SR-20R #1	Wed, 01/24/2024 11:15	3	15	NO	
Factory 1 Line#1 SR-20R #12/21	Thu, 02/01/2024 09:07	1	15	YES	
Factory 1 Line#1 SR-20R #1	Thu, 02/01/2024 09:07	1	15	NO	

Items	Contents
Machine	Group1,2 and machine name
Date Time	Date and time when the data was created
Custom items	Values of custom items corresponded to selected operator history page
Operation	Click “...” icon to copy, edit or delete record. <div><div><div></div><div></div><div></div></div><div><div>Copy</div><div>Edit</div><div>Delete</div></div></div>

■Create Record

Click “Create” on the Operator History list to open Operator History Create screen.

Operator History Create

Group1

All

Group2

All

Machine

SR-20R #12/21

DateTime

2024/05/08 12:15

Tool No

Time(min)

Chip Change

NO

SUBMIT

CANCEL

■Edit Record

Click “Edit” in the operation icon on the Operator History list to open Operator History Edit screen. Selected machine cannot be changed.

Operator History Edit

Group1

Factory 1

Group2

Line#1

Machine

SR-20R #12/21

DateTime

2024/02/01 09:07

Tool No

1

Time(min)

15

Chip Change

YES

SUBMIT

CANCEL

■Copy Record

Click “Copy” in the operation icon on the Operator History list to open Operator History Create screen with selected data.

Operator History Create

Group1

Factory 1

Group2

Line#1

Machine

SR-20R #12/21

DateTime

2024/05/08 12:16

Tool No

1

Time(min)

15

Chip Change


YES

SUBMIT

CANCEL

■Delete Record

Click “Delete” button in the operation icon of Operator History list to delete record.
Click “DELETE” in the warning dialog to delete item.



Do you want to delete this operator history?

DELETE

CANCEL

NOTICE



Deleted data cannot be restored.

■Create Operator History Page

Click “+” button on the right of the tab to open Operator History Page Create screen.

Defective Record 2

Tool Change Histor... 4

Maintenance History

Daily Report

+

Operator History Page Create

TITLE
Title
Daily Report

INPUT FORMS

Type
Text

Label
Name

Type
Text

Label
Defective

Type
Text

Label
Production

Type
Text

Label
Remarks

+ ADD ITEM

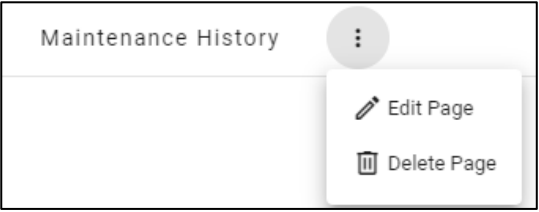
SUBMIT

CANCEL

Items	Contents
Title	Set the page title
Type	<p>Select form type from “Text” or “YES/NO”.</p> <p>When “Text” is selected, an input form is created in which letters and numbers can be entered.</p> <div>担当者（氏名）</div> <p>When “YES/NO” is selected, a ON/OFF switch is created.</p> <div>Chip Change <input type="checkbox"/> NO</div>
Label	Set the label of input form.
Add Item	Click to create new input form.
Submit	Submit record.
Cancel	Close the create window.

■Operation of Operator History Page

Click “...” icon on the Operator History tab to edit or delete the page.



■Operator History Page Edit

Operator History Page Edit

TITLE

Title

Maintenance History

INPUT FORMS

Type

Text

Label

Manager

☐ Delete

Type

Text

Label

Operator

☐ Delete

Type

Text

Label

Support

☒ Delete

Type

YES/NO

Label

Bill

☐

+ ADD ITEM

SUBMIT

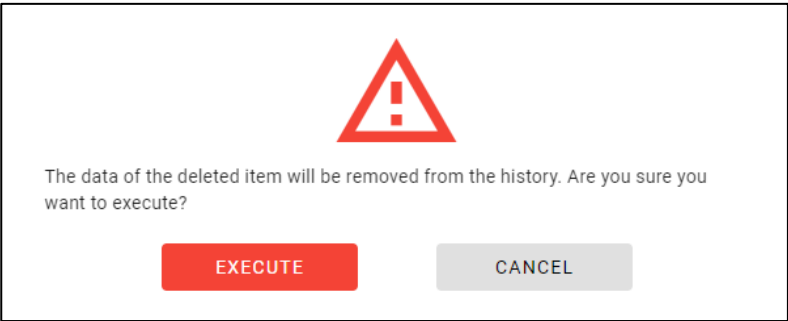
CANCEL

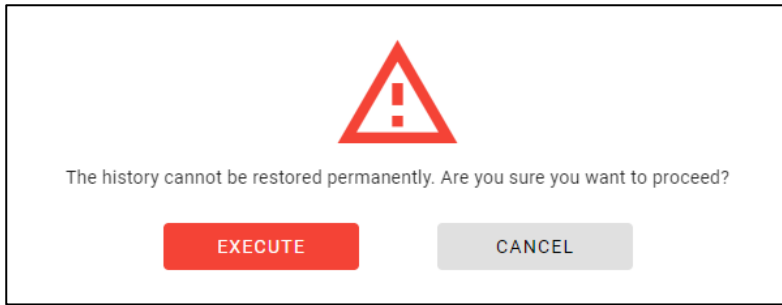
Check “Delete” to delete the input form selected and registered data linked to the form.


Click “ADD ITEM” to add an input form.

The following warning dialogs are displayed when clicking “SUBMIT” with “Delete” checked.

Click “EXECUTE” on these dialogs to update Operator History Page.



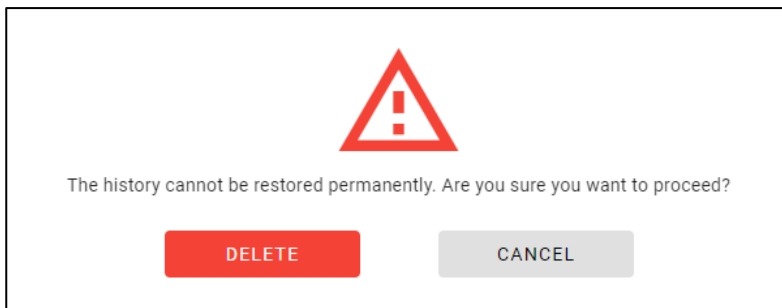
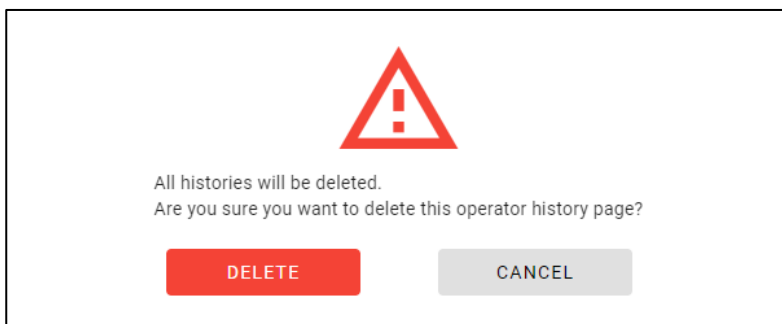



- NOTICE** 
- When input form is deleted, all registered data linked to the form are also deleted.
 - Deleted data cannot be restored.

■Delete Operator History Page

Click “Delete Page” in the “...” icon on the Operator History Page tab to delete the Operator History Page and linked data.

Click “DELETE” on these dialogs to delete Operator History Page and linked data.



- NOTICE** 
- Deleted data cannot be restored.

4-9 Remote Control

Select “Remote Control” from main menu to display Remote Control screen.

Remote control can be operated to the supported machines.

Filter

Group1

All

Group2

All

Remote Control

Please select the action to operate.

EXECUTE ALL

CLEAR ALL

BULK SELECT

HISTORY

Machine	Program (PATH1)	Count / Preset	ONECYCLE STOP	AUTO POWER OFF	POWER OFF	Operation
Factory A Line#1	01234(SUS200-1241-4312-1023)	300 / 500				
<div><div></div><div>SR-20RIV #1</div></div>	<div><div>2m 12s</div><div></div><div>AP0</div><div>121 Wh</div></div>	<div><div>7h 20m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory A Line#1	01234(SUS200-1241-4312-1023)	75 / 1,000				
<div><div></div><div>SR-20RIV #2</div></div>	<div><div>2m 12s</div><div></div><div>AP0</div></div>	<div><div>1d 9h 55m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory A Line#1	01234(SUS200-1241-4312-1023)	154 / 1,000				
<div><div></div><div>SR-20RIV #3</div></div>	<div><div>2m 12s</div><div></div><div>AP0</div></div>	<div><div>1d 7h 1m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory B Line#1	Disconnect	Disconnect				
<div><div></div><div>SX-38 #11</div></div>						
Factory B Line#1	03535(SUS200-1241-4312-1023)	87 / 100				
<div><div></div><div>SX-38 #12</div></div>	<div><div>16m 53s</div><div></div><div>AP0</div></div>	<div><div>3h 39m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory B Line#1	06002(SUS200-1241-4312-1023)	0 / 50				
<div><div></div><div>SX-38 #13</div></div>	<div><div>7m 32s</div><div></div><div>AP0</div></div>	<div><div>6h 16m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory A Line#2	05912(SUS200-1241-4312-1023)	0 / 200				
<div><div></div><div>SL-10 #1</div></div>	<div><div>3m 30s</div><div></div><div>AP0</div></div>	<div><div>11h 40m</div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Factory A Line#2	05913(SUS200-1241-4312-1023)	69 / 100				
<div><div></div><div>SL-10 #2</div></div>						

NOTICE



- Remote Control menu is displayed only when login user type is Admin. User type can be changed in 7-3 User settings screen.

NOTICE



- Following machines (with MITSUBISHI CNC) do not support the remote control function. “Unsupported machine” error will occur when operating to them.
 - SB-20J
 - SR-32JM
 - SB-20R II /23R II (M80V)
- Following machines do not support the “AUTO POWER OFF” and “POWER OFF” operation. Machines require to update the CNC software for those operation. Please inquire Star Micronics about the detail.
 - SB-12/16III
 - SL-7/10
 - SP-20/23
 - SD-26
 - SB-20R II /23R II (FS0i-TF Plus)

■Machine Filter

When the filter button is clicked, Machine Filter screen opens. All machines are displayed by default. Filter condition is same as 4-4-1 Machine Filter screen.

■EXECUTE ALL



Execute all selected (pending) operations.

■CLEAR ALL

Clear all selected (pending) operations.

■BULK SELECT

Select all machines that can operate “ONE CYCLE STOP ON” or “POWER OFF”.

<input type="checkbox"/>		ONECYCLE STOP
<input type="checkbox"/>		POWER OFF

■HISTORY

Display the history of the operations.

■Machines list

Machines are displayed in the list view. Machine status, Program and Count/Preset are displayed in the same format as 4-4-2 Count List. Operations can be selected by switching the “ONECYCLE STOP”, “AUTO POWR OFF” and “POWER OFF” check box on or off.




4-9-1 Select remote control

■ONE CYCLE and AUTO POWER OFF

ONE CYCLE and AUTO POWER OFF check boxes can be switched to operate the remote control for running machines. Note that those operations cannot be operated to stopped machines.

The initial check box status shows the machine status.

When ONE CYCLE is checked, following screen will be displayed.




			Operation
ONE CYCLE	AUTO POWER OFF	POWER OFF	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<button>TURN ON ONE CYCLE</button>

■POWER OFF

POWER OFF check box can be checked to operate the main power off for stopped machines.

When the POWER OFF is operated, auto power off is turned ON and then the EX1022 alarm is generated to turn off the main power (main breaker) of the machine.

Note that POWER OFF cannot be operated to the running machines.

			Operation
ONE CYCLE	AUTO POWER OFF	POWER OFF	
-	-	<input checked="" type="checkbox"/>	<button>POWER OFF</button>

4-9-2 Operate remote control for single machine


Click the operation buttons to open the confirm dialog.

Click the EXECUTE button in the confirm dialog to operate the remote control.

CONFIRM OPERATION

Are you sure you want to execute the operation?

Machine: SR-20RIV #3

Operation:  Turn ON ONE CYCLE

EXECUTE

CANCEL


4-9-3 Operate remote control for multi machines


Click the EXECUTE ALL button to display the confirm dialog.


Click the EXECUTE button in the confirm dialog to operate all the selected remote control.

CONFIRM OPERATION

Are you sure you want to execute the operation?

 ONE CYCLE ON SR-20RIV #1 SR-20RIV #3

 AUTO POWER OFF OFF SL-10 #1


 POWER OFF SX-38 #13


EXECUTE


CANCEL

4-9-4 Result of remote control

When remote control has finished, result dialog pops up in the upper right area on the screen.

 ONE CYCLE

 AUTO POWER OFF

 POWER OFF

Operation

Disconnect

EXECUTE ALL

CLEAR ALL

BULK SELECT

HISTORY

SV-38R

Turn ON AUTO POWER OFF Success

■Operation succeeded

When operation succeeded, green card with machine name and operation type pops up.

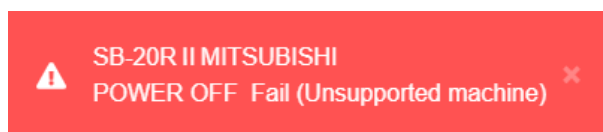
This notification will disappear automatically in a few second.



■Operation failed

When operation failed, red card with machine name, operation type and error message pops up.

This notification will not disappear automatically.



■List of errors

Errors that might occur are shown in the following table.

Error code	Error message	Detail
213	Unsupported machine	Unsupported machine type. (*1)
227	Operation timeout	Operation timeout. (*2)
1935	Disabled Power Off	Disable to turn off the machine power. (*3)
9001	Resource locked	Users from other PCs might be operating.
9002	StarCncComm stopped	StarCncComm service is stopped.
9100	Undefined operation	Operation type is undefined.
9999	Unknown error	Others










(*1) This error can occur when operating to the machines with MITSUBISHI CNC.

(*2) This error can occur when operating to unsupported machines.

(*3) This error can occur when operating POWER OFF to running machines.

4-9-5 History of remote control

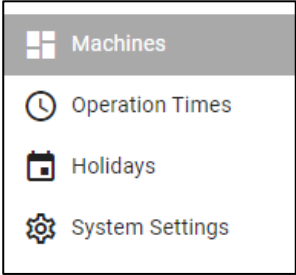
Click the HISTORY button to display the remote control history screen.

History					×
Operated at	User	Machine Name	Operation	RESULT	
Tue, 05/13/2025 10:36	star	SR-20RIV #1		Fail(9100)	
Tue, 05/13/2025 10:12	operatorB	SX-38 #13	 Turn off POWER	Fail(102)	
Thu, 05/08/2025 18:54	operatorA	SR-20RIV #1	 Turn off POWER	Success	
Thu, 05/08/2025 18:53	operatorA	SR-20RIV #1	 Turn ON AUTO POWER OFF	Success	
Thu, 05/08/2025 18:53	star	SR-20RIV #1	 Turn OFF ONECYCLE STOP	Success	
Thu, 05/08/2025 18:52	operatorB	SR-20RIV #1	 Turn ON ONECYCLE STOP	Success	
Thu, 05/08/2025 18:37	operatorB	SR-20RIV #1	 Turn OFF ONECYCLE STOP	Success	
Thu, 05/08/2025 18:37	operatorB	SR-20RIV #1	 Turn OFF ONECYCLE STOP	Fail(102)	
Thu, 05/08/2025 18:36	operatorB	SR-20RIV #1	 Turn ON ONECYCLE STOP	Success	
Thu, 05/08/2025 18:35	operatorB	SR-20RIV #1	 Turn ON ONECYCLE STOP	Fail(102)	
Items per page: 10					1-10 of 100 < > < >

Items	Contents
Operated at	Date and time when remote control was operated.
User	Logged in username.
Machine name	Machine name.
Operation	Operation type.
Result	Result of the operation and error code.

4-10 Settings

Select “Settings” from main menu to display Settings menu.



4-10-1 Machines

Select “Machines” from settings menu to display Machines information.

Machines										
<div><div><div></div><div>search</div></div></div>										<div><div><div></div><div>DOWNLOAD</div></div></div>
ID	Machine Name	Group1	Group2	IP Address	Port No	NC Maker	NC Model	Operation Time	Holidays	Memo
1	SR-20R #12/21	Factory 1	Line#1	92.168.62.117	8193	FANUC	Model1		new	This machine is frequently repaired so please use it with caution.
2	SX-38 #12/22 SUS	Factory 1	Line#1	1.1.1.2	8193	FANUC	Model1	work1	new	This area is to display memo.
3	SX-38 #12/22 SUS#2	Factory 1	Line#1	3.3.3.3	8080	FANUC	Model1	work1		New Machine since 2023.
4	SR-20R #1	Factory 1	Line#1	3.3.3.3	8080	FANUC	Model1	work1		Malfunctioning. Cause under investigation.
5	SR-20R #2	Factory 1	Line#1	3.3.3.3	8080	FANUC	Model1	work1		
6	SR-20R #3	Factory 1	Line#2	3.3.3.3	8080	FANUC	Model1	work1		
7	SR-20R #4	Factory 1	Line#2	3.3.3.3	8080	FANUC	Model1	work1		
8	SR-20R #5	Factory 2	Line#3	3.3.3.3	8080	FANUC	Model1	work1		
9	SR-20R #6	Factory 2	Line#3	3.3.3.3	8080	FANUC	Model1	work1		
10	SR-20R #7	Factory 2	Line#3	3.3.3.3	8080	FANUC	Model1	work1		
Items per page: 10 1-10 of 10 < > >>										

Items	Contents
ID	Machine ID
Machine Name	Machine name
Group1	Group1
Group2	Group2
IP Address	IP address
Port No	Port No.
NC Maker	NC Maker
NC Model	NC Model
Operation Time	Operation Time setting
Holidays	Holiday setting
Memo	Memo

4-10-2 Operation Times

Select “Operation Times” from settings menu to display Operation Times.

Operation Times				 DOWNLOAD
ID	Name	Start	End	
1	work1	9:00	19:00	
2	work2	0:00	22:00	
3	work3	0:00	21:00	
9	new	6:00	7:00	
10	mytime	1:00	3:00	
				Items per page: 10 1-5 of 5 < < > >

Items	Contents
ID	Operation Time ID
Name	Operation Time name
Start	Operation start time
End	Operation end time

4-10-3 Holidays

Select “Holidays” from setting menu to display Holidays.

Holidays

holidays

holiday

year

2020

DOWNLOAD

Year-Month

holidays

Jan. 2020

Wed, 1/1

Thu, 1/2

Fri, 1/3

Sat, 1/4

Sun, 1/5

Sat, 1/11

Sun, 1/12

Sat, 1/18

Sun, 1/19

Sat, 1/25

Sun, 1/26

Feb. 2020

Sat, 2/1

Sun, 2/2

Sat, 2/8

Sun, 2/9

Sat, 2/15

Sun, 2/16

Sat, 2/22

Sun, 2/23

Sat, 2/29

Mar. 2020

Sun, 3/1

Sat, 3/7

Sun, 3/8

Sat, 3/14

Sun, 3/15

Sat, 3/21

Sun, 3/22

Sat, 3/28

Sun, 3/29

Apr. 2020

Sat, 4/4

Sun, 4/5

Sat, 4/11

Sun, 4/12

Sat, 4/18

Sun, 4/19

Sat, 4/25

Sun, 4/26

May. 2020

Sat, 5/2

Sun, 5/3

Sat, 5/9

Sun, 5/10

Sat, 5/16

Sun, 5/17

Sat, 5/23

Sun, 5/24

Sat, 5/30

Sun, 5/31

Jun. 2020

Sat, 6/6

Sun, 6/7

Sat, 6/13

Sun, 6/14

Sat, 6/20

Sun, 6/21

Sat, 6/27

Sun, 6/28

Jul. 2020

Sat, 7/4

Sun, 7/5

Sat, 7/11

Sat, 7/18

Sun, 7/19

Sat, 7/25

Sun, 7/26

Aug. 2020

Sat, 8/1

Sun, 8/2

Sat, 8/8

Sun, 8/9

Sat, 8/15

Sun, 8/16

Sat, 8/22

Sun, 8/23

Sat, 8/29

Sun, 8/30

Sep. 2020

Sat, 9/5

Sun, 9/6

Sat, 9/12

Sun, 9/13

Sat, 9/19

Sun, 9/20

Sat, 9/26

Sun, 9/27

Oct. 2020

Sat, 10/3

Sun, 10/4

Sat, 10/10

Sun, 10/11

Sat, 10/17

Sun, 10/18

Sat, 10/24

Sun, 10/25

Sat, 10/31

Nov. 2020

Sun, 11/1

Sat, 11/7

Sun, 11/8

Sat, 11/14

Sun, 11/15

Sat, 11/21

Sun, 11/22

Sat, 11/28

Sun, 11/29

Dec. 2020

Sat, 12/5

Sun, 12/6

Sat, 12/12

Sun, 12/13

Sat, 12/19

Sun, 12/20


Sat, 12/26

Sun, 12/27

Items	Contents
Holidays	Select holiday name to display holidays.
Year	Select year to display holidays.
Holidays	Holiday date list by month

(*1)

NOTICE



▪

Holidays to be displayed are only linked to any machines on 3-7 Registration screen.

4-10-4 System Settings

Select “System Setting” from setting menu to display System Settings.

System Settings	
Language Select language.	English ▾
Dark theme Enable dark theme.	<input type="checkbox"/> OFF
Date Format Select date format.	month-day-year ▾
Show Production History Total Time Show Production History Total Time on history menu.	<input type="checkbox"/> OFF
Show Remaining Time Display remaining time instead of completion time in the monitor screen.	<input type="checkbox"/> OFF
Always show Today's Progress Display today's progress using machine preset when machine has no schedules in the monitor screen.	<input type="checkbox"/> OFF
Emphasize Alarm on Tile View Emphasize alarm tile in the monitor page.	<input type="checkbox"/> OFF
Show Group Count Show the total count for group1 or group2. (None to hide)	Group1 ▾
Remaining Time Threshold 1 Threshold for coloring remaining time in the monitor screen (let 1 < 2 < 3).	<input type="text" value="4"/> Hours
Remaining Time Threshold 2 Threshold for coloring remaining time in the monitor screen (let 1 < 2 < 3).	<input type="text" value="12"/> Hours
Remaining Time Threshold 3 Threshold for coloring remaining time in the monitor screen (let 1 < 2 < 3).	<input type="text" value="24"/> Hours
Machines number in Monitor Screen Machines number per page in Monitor Screen	10 ▾
Automatic Pagination in Monitor Screen Enable automatic pagination in Monitor Screen.	<input checked="" type="checkbox"/> ON
Timer of Automatic Pagination Timer of automatic pagination in Monitor Screen (seconds).	3 ▾ sec
Show Program in Tiles Show program and comment in tiles.	<input checked="" type="checkbox"/> ON

Items	Contents
Language	Select display language.
Dark theme	Enables dark theme entire application. Initial value is OFF.
Date Format	Selects date format when language is English. Initial value is "month-day-year".

Show Production with Status History page	Shows Production History Total Time menu on history menu. Initial value is OFF.
Show Remaining Time	Displays remaining time instead of completion time on the 4-4-4-4 Completion Time list screen. Initial value is OFF.
Always show Today's Progress	Displays today's progress using machine preset when machine has no schedules on 4-4-3 Progress List screen. Initial value is OFF.
Emphasize Alarm on Tile View	Emphasize alarm tile on 4-4-5 Tile view. Initial value is OFF.
Show Count of Each Groups	Shows the total count for each group1 or group2 on the Group Count on 4-4 Monitor screen. Group Count is not displayed when "None" is selected. Initial value is Group1.
Remaining Time Threshold 1 - 3	Changes threshold for coloring the remaining time on 4-4-4 Completion Time List screen. Initial values are "4", "12", "24".
Machines number in Monitor Screen	Select the number of machines displayed in a page on 4-4 Monitor screen.
Automatic Pagination in Monitor Screen	Enables automatic pagination in the 4-4 Monitor screen.
Timer of Automatic Pagination	Select the timer of the automatic pagination.
Show Program in Tiles	Show program and comment in the 4-4-5 Tile view.

4-11 Web API

By using the Web API, it is possible to obtain various data from external applications.

Select "API Reference" from the help button, the API documentation will be displayed. Refer to the API documentation for instructions on how to use the API.

CHAPTER 5

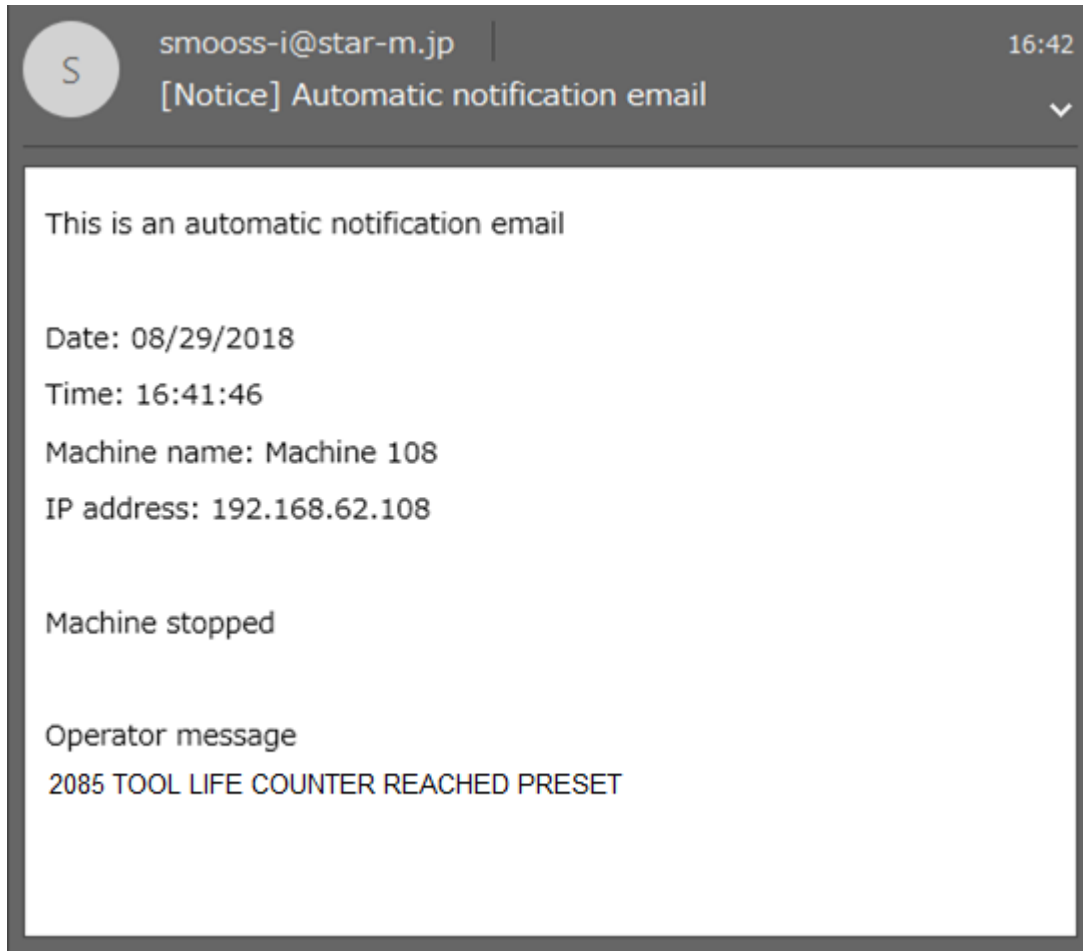
E-mail notification

5 E-mail notification

5-1 Outline

This is a function notifies by E-mail when the machine stops machining with alarm generating.

Example (It differs depending on the E-mail software).



5-2 Specification

a) Condition to notify

When both conditions of “Mode of machine” and “Status” are satisfied with following things respectively, notification is carried out.

•Mode of machine

When control mode is machining mode and a program operates in Memory mode.

(Mode selection key is set to “MEMORY”.)

•Status (In the case that machine status becomes any of followings)

1. Alarm was generated and machine stopped.
2. Machine stopped with displaying an operator message.
3. Communication disconnected with machine (No reply despite of reconnection)

NOTE



- Setting not to notify at the count reach state for parts counter and tool life is possible.
- Time length until judging of communication disconnection with the machine can be alter. Initial value is 15 minutes.

b) Notification contents

- Machine stop date
- Machine name
- IP address
- Number and contents of alarm/operator message generated when machine stopped.

5-3 Setting

Set by following the procedure of section 3-8-2 “Setting of E-mail notification”

NOTICE



- E-mail notification can be received with E-mail software used regularly.
- Environment for using E-mail is necessary. (Connection from the server where information collect software operates to E-mail sever needs to be possible).
- Internet environment is necessary to notify outside such as mobile phone.
- Internet environment is also necessary to use external E-mail sever.

CHAPTER 6

Data backup

6 Data backup

Collected data is saved in the hard disk. However, if the server or the hard disk is failure by any chance, all data will be lost.

Even if in such case, the last backed-up data can be restored from the hard disk of other server if the data have been backed up.

Be sure to back up periodically with the software for back-up work.

6-1 Installation of backup software

Install back-up software for the database.

A folder with name of date is created each date of back-up and data is saved in the folder.

e.g.) For the data of 09/25/2024 D:\DB_Backup\data\20240925\

- 1) Set the installation disc of SMOOSS-i into the optical disk drive.
- 2) Decide the drive to back up the data.

Then copy “Tool” folder to the drive to back-up with windows explorer.

Make sure that the path of copied folder is not include spaces.

OK) C:\Users\work\backup\Tool

NG) C:\Users\work\back up\Tool

- 3) Double-click “CreatingShortcut.bat” in “bin” folder inside the copied folder.

The short cut icon will be created on the desktop.

For back-up  For restoring 

6-2 Backup procedure

NOTICE

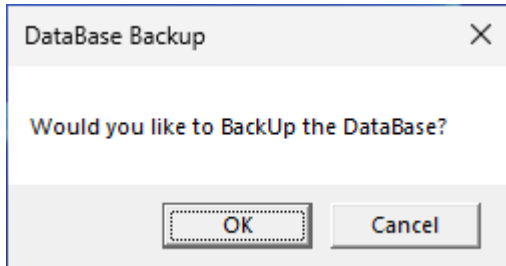


- Be sure to finish Collector before back-up.

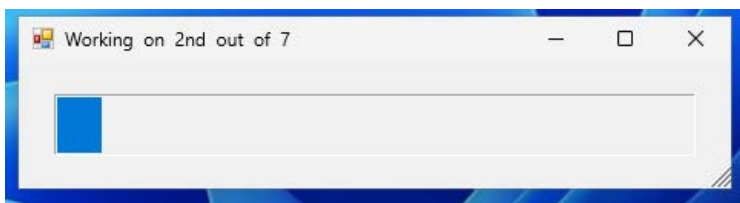
- 1) Double-click the icon on the desktop.



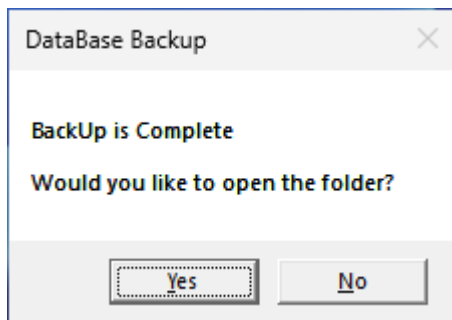
Following screen displays then click [OK].



Following screen displays while doing back-up.



- 2) Following screen displays after completing.



YES : Finish back-up work with opening stored folder with windows explorer.

NO : Finish with this window closed.

NOTICE



- When data was backed up in the hard disk on the server, copy back-up data to the another hard disk or server.

6-3 Restoration procedure

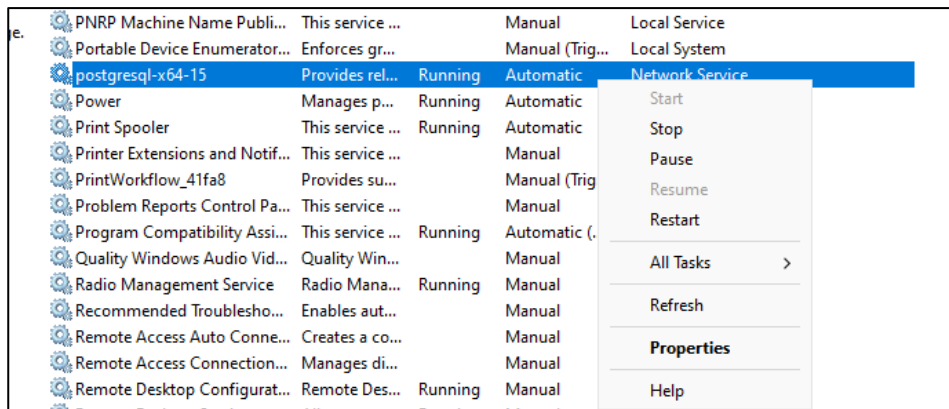
NOTICE




- Current database is discarded by restoration. Discarded data cannot be restored therefore operate carefully.
- Do not start Collector during restoration.
- Following setting of E-mail notification is not restored therefore set these again. Refer to section 3-8-2.
Sever (SMTP), Port No., Timeout, each information for authentication

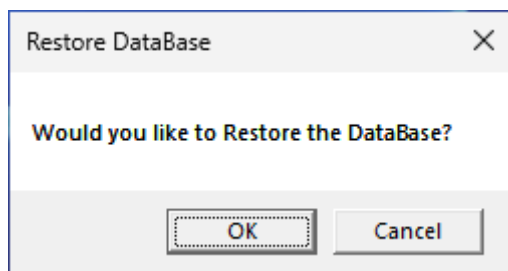
Preparation (Clear DB Connections)

- 1) Open “Service” App from the Windows Menu and select “postgresql-x64-15”.
- 2) Right click it and click “Stop”, then click “Start”.

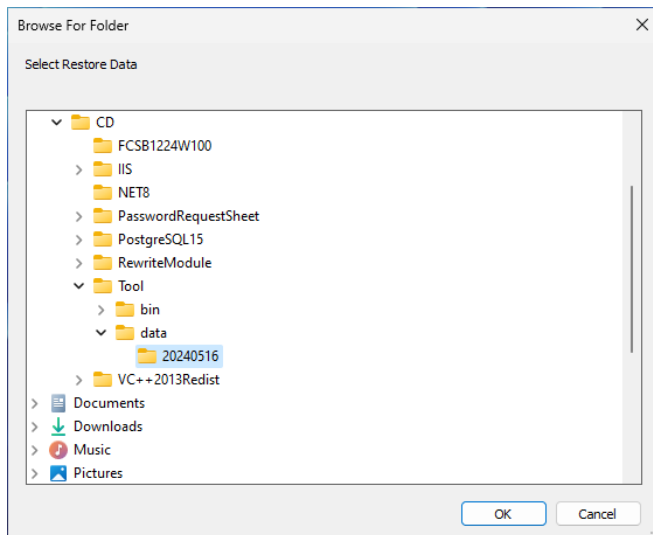


Restoration

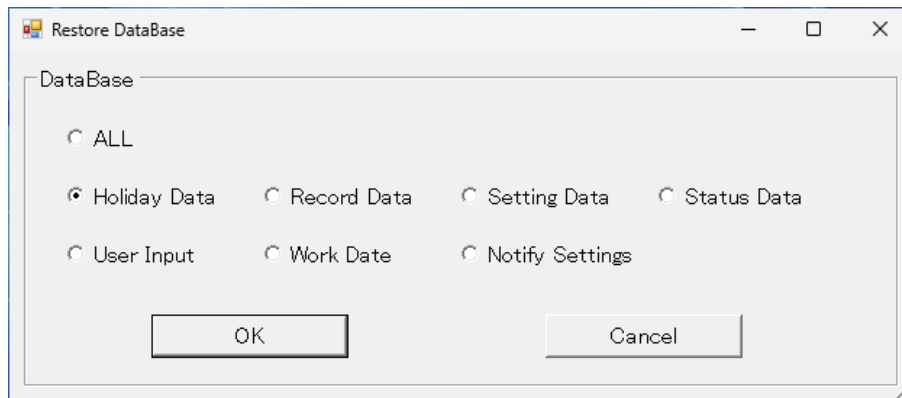
- 1) Double-click the icon for restoration  on the desk top.
- 2) Following screen displays then click [OK].



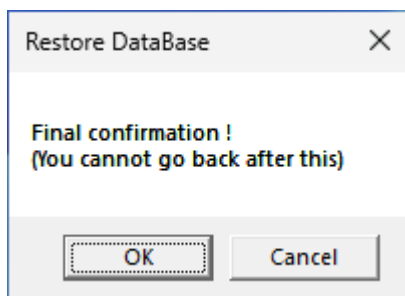
- 3) Specify the data to restore. Select the folder name where back-up data saved.



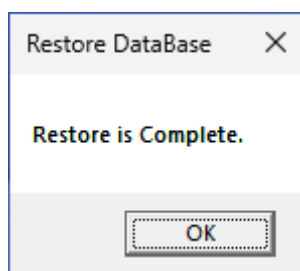
4) Select the database to restore. Enter the check then click [OK].



5 Following screen displays then click [OK]



6 Following screen displays after completing. Click [OK] to exit.



CHAPTER 7

Program I/O function management application

7 Program I/O function management application

7-1 Starting

- a) When starting from short cut

Double click the short cut [PrgMgrAdmin]  to start PrgMgrAdmin.

- b) When starting from the start menu

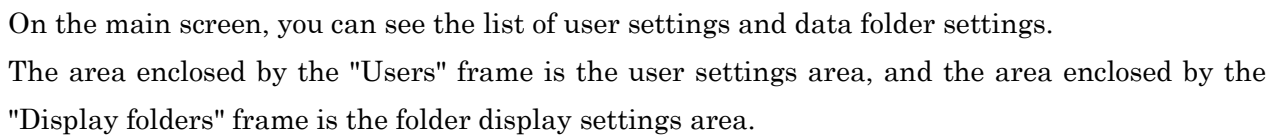
- 1) Click Windows' start menu.

For windows 11, select the arrow next to [All Apps].

- 2) Click [Star Micronics SMOOSS-i].

- 3) Click [PrgMgrAdmin] to start PrgMgrAdmin.

When PrgMgrAdmin starts, following main screen displays.



7-3 User settings



Items	Contents
ID	Displays the ID for each user.
Name	Displays the name.
Type	Displays the user type.

Button and function

Items	Contents	Chapter
New	Create a new user.	7-3-1
Property	Confirm or change user settings.	7-3-2
Delete	Delete the user.	7-3-3
Change password	Change the user's password.	7-3-4

7-3-1 Create new

Click the [New] button in the User Settings area to display the following setting window.

If you use the SMOOSS-i, a) Basic settings is only settings required.

If you use the Program Manager, b), c) and d) are necessary as well as a).

User settings

User ID

Password

Name

Confirm password

☐ Admin

☐ Display passwords

Access level settings

☒ Read only ☐ Read / Write ☐ Full access

Folder settings

Display name	Folder path	R	R/W
--------------	-------------	---	-----

Machine settings

Per machine

Group1	Group2	Name	R	R/W
--------	--------	------	---	-----

Per group

Group1	R	R/W
--------	---	-----

Group2	R	R/W
--------	---	-----

OK

Cancel

a) Basic settings

User ID	<input type="text"/>	Password	<input type="text"/>
Name	<input type="text"/>	Confirm password	<input type="text"/>
<input type="checkbox"/> Admin		<input type="checkbox"/> Display passwords	

Items	Contents
User ID	Enter the ID you want to use to login.
Name	Enter a name for this user. You may leave it blank.
Admin	If checked, the user privilege is administrative.
Password	Enter the password you will use to login.
Confirm password	Re enter the password for confirmation.
Display passwords	If checked, the password will be displayed.

NOTICE



- It is not possible to set the same user ID as an existing user ID.
- You can't check your password later.
- Alphanumeric characters and symbols can be used for the user ID and password.
Capital letter: [A-Z]
Small letter: [a-z]
Number: [0-9]
Symbol: ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~

NOTE



- You can login to the web page using the user ID and password that you set up in this screen.

REFER



- For more information about login the SMOOSS-i, please refer to "4-2 Login Screen".
- For more information about login the Program Manager, please refer to "8-2 Login Screen".

b) Access level settings


Access level settings

☒ Read only ☐ Read / Write ☐ Full access

Set the access level for this user.

Items	Contents
Read only	Allows you to read data from a specified machine or folder.
Read/Write	Allows you to read and write data from a specified machine or folder.
Full access	You can read and write data from any machine or folder.

NOTICE



- This setting takes precedence over individual data folder settings and machine settings.
For example, if this setting is set to "Read only", an error will occur when writing even if the individual setting is set to "Read/Write".
- "Full access" ignores individual settings and allows reading and writing to all machines and folders. Set this with care.

c) Folder settings

Folder settings

Display name	Folder path	R	R/W
--------------	-------------	---	-----

Set the access permissions for each folder.

Items	Contents
Display name	Displays the name displayed in the "Storage" section of the web screen.
Folder path	Displays the path to the folder.
R	If checked, this folder will be readable.
R/W	If checked, this folder will be readable and writable.

If there is no folder display setting, this setting field will be empty. In this case, please set the folder display settings.

REFER



- For more information about folder display settings, please refer to "7-4 Folder Display Settings".

An example of the configuration is shown below.

Folder settings

Display name	Folder path	readable	R	R/W
NC_Prg	C:\ncprogram		<input checked="" type="checkbox"/>	<input type="checkbox"/>
SX-38	C:\NC\SX-38		<input type="checkbox"/>	<input checked="" type="checkbox"/>
SB-20RG	C:\NC\SB20RG			

readable and writable

d) Machine settings

Per machine


Group1	Group2	Name	R	R/W
--------	--------	------	---	-----

Set the permissions for each machine.

Items	Contents
Group1	Displays the name of "Group 1".
Group2	Displays the name of "Group 2".
Name	Displays the machine name.
R	If checked, this machine will be readable.
R/W	If checked, this machine will be readable and writable.

If no machine registration has been made, this setting field will be blank. In this case, please register the machine.

REFER • For more information about machine registration, please refer to "3-7 Registration".



An example of the configuration is shown below.

Per machine

Group1	Group2	Name	R	R/W
PartsAAA	Line1	Machine01	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line1	Machine02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line2	Machine03	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line2	Machine04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine05	<input type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine06	<input type="checkbox"/>	<input type="checkbox"/>
PartsBBB		Machine07	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB		Machine08	<input type="checkbox"/>	<input checked="" type="checkbox"/>

It is also possible to set this for each group.

Per machine				
Group1	Group2	Name	R	R/W
PartsAAA	Line1	Machine01	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line1	Machine02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line2	Machine03	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line2	Machine04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine05	<input type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine06	<input type="checkbox"/>	<input type="checkbox"/>
PartsBBB		Machine07	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB		Machine08	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Per group		
Group1	R	R/W
PartsAAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Group2	R	R/W
Line1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Line2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line3	<input type="checkbox"/>	<input type="checkbox"/>

Changing setting of "Per group" area will also change the setting status for each machine belonging to the group.

If a machine belongs to both Group 1 and 2, and settings of the two group are different, lower permission will be applied. As an example, in the case of "Machine03" and "Machine04", Group 1 of "PartsAAA" is set to "R/W" and Group 2 of "Line2" is set to "R". In this case, "R" is applied to "Machine03" and "Machine04".

In addition, the permissions of "Line3" in Group 2 are not set, so permissions are not set for "Machine05" and "Machine06".

NOTICE



- It is possible to change the permissions of each machine after setting the groups. However, if you set the permissions for each group again, the status will be reflected on each machine. If you want to change the permissions of a specific machine in a group, change the permissions of each machine after setting the group permissions, or set the permissions for each machine without using the group settings.
- The settings for each group on this screen are effective only for the current group setting. Even if a machine is registered or a group is changed after the settings have been made, they will not be reflected automatically. In such a case, make the settings again on this screen.

7-3-2 Property

Select the data in the list screen and click the "Property" button to display the following screen.

User settings

User ID

Star

Name

Star Micronics

Access level settings

☐ Read only

☒ Read / Write

☐ Full access

Folder settings

Display name	Folder path	R	R/W
NC_Prg	C:\ncprogram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SX-38	C:\NC\SX-38	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SB-20RG	C:\NC\SB20RG	<input type="checkbox"/>	<input type="checkbox"/>

Machine settings

Per machine

Group1	Group2	Name	R	R/W
PartsAAA	Line1	Machine01	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line1	Machine02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsAAA	Line2	Machine03	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line2	Machine04	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine05	<input type="checkbox"/>	<input type="checkbox"/>
PartsAAA	Line3	Machine06	<input type="checkbox"/>	<input type="checkbox"/>
PartsBBB		Machine07	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB		Machine08	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Per group

Group1	R	R/W
PartsAAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Group2	R	R/W
Line1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Line2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line3	<input type="checkbox"/>	<input type="checkbox"/>

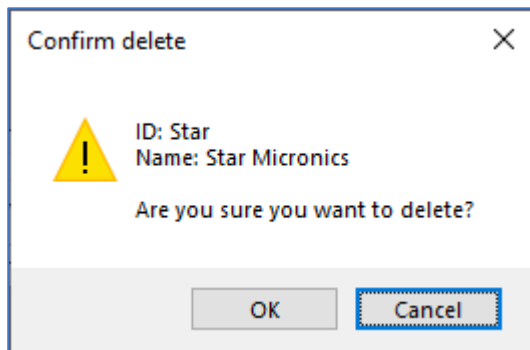
OK

Cancel

If you have changed the settings, click the "OK" button.

7-3-3 Delete

Select the data you want to delete in the list screen, and click the "Delete" button, and the following screen will appear.



Click the "OK" button to delete.

Click the "Cancel" button to abort.

7-3-4 Change password

Select the data you want to change on the list screen and click the "Change password" button, and the following screen will appear.

Change password

Current password

New password

Confirm password

☐ Display passwords

OK


Cancel

Items	Contents
Current password	Enter current password.
New password	Enter new password.
Confirm password	Re enter the password for confirmation.
Display passwords	If checked, the password will be displayed.

Click the "OK" button to change the settings.


Click the "Cancel" button to abort.

NOTICE



• You can't check your password later.

REFER



• For more information about the characters that can be used for passwords, please refer to "7-3-1 Create new".

7-4 Folder display settings

Display folders

Display name	Folder path
--------------	-------------

New

Property

Delete

Items	Contents
Display name	Displays the name displayed in the "Storage" section of the web screen.
Folder path	Displays the path to the folder.

Button and function

Items	Contents	Chapter
New	Create a new display name.	7-4-1
Property	Confirm or change the display name setting.	7-4-2
Delete	Delete the display name setting.	7-4-3

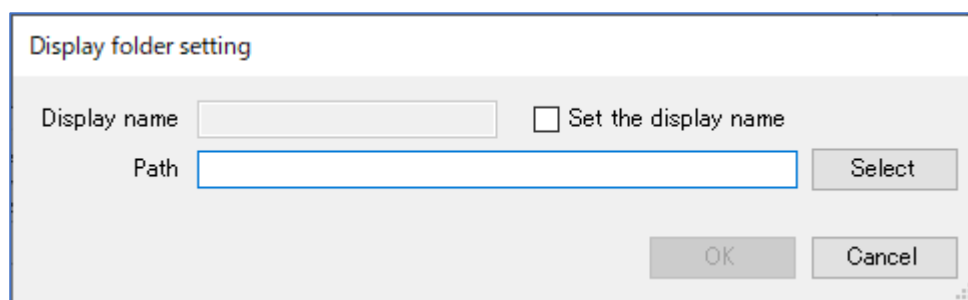
NOTICE



▪ This setting is the same for all users.

7-4-1 Create New

Click the [New] button to display the following setting window.



The screenshot shows a dialog box titled "Display folder setting". It has two input fields: "Display name" and "Path". To the right of the "Display name" field is a checkbox labeled "Set the display name". To the right of the "Path" field is a button labeled "Select". At the bottom right of the dialog are two buttons: "OK" and "Cancel".

Items	Contents
Display name	The name displayed in the storage column on the web screen. Normally, the selected folder name will be set. It is also possible to set your own display name.
Set the display name	When checked, the display name can be entered.
Path	Enter the path to the folder. Click the "Select" button to open the selection window.

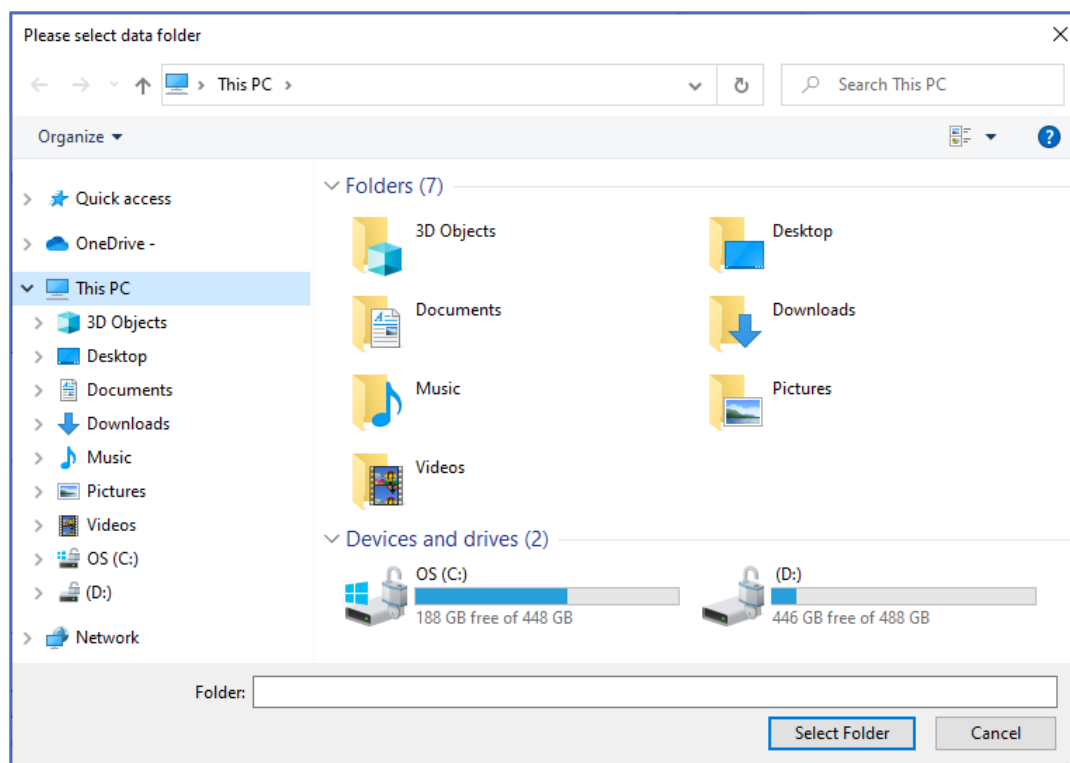
After entering the data, click the "OK" button to display the set data in the list.

NOTICE



- You cannot set the same display name as an existing display name.
It is possible to set the same path for multiple display names.

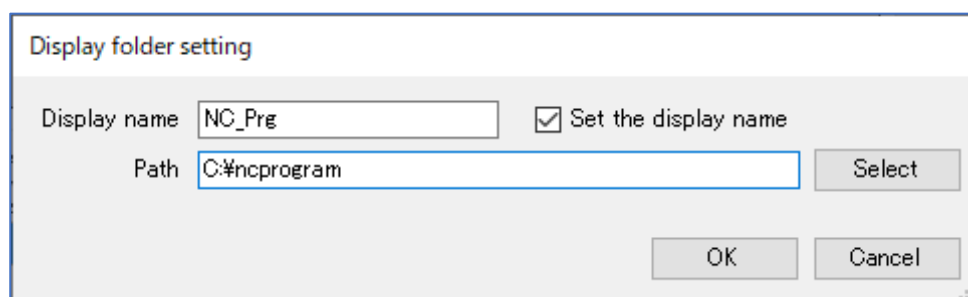
Click the "Select" button on the setting screen to display the following screen.



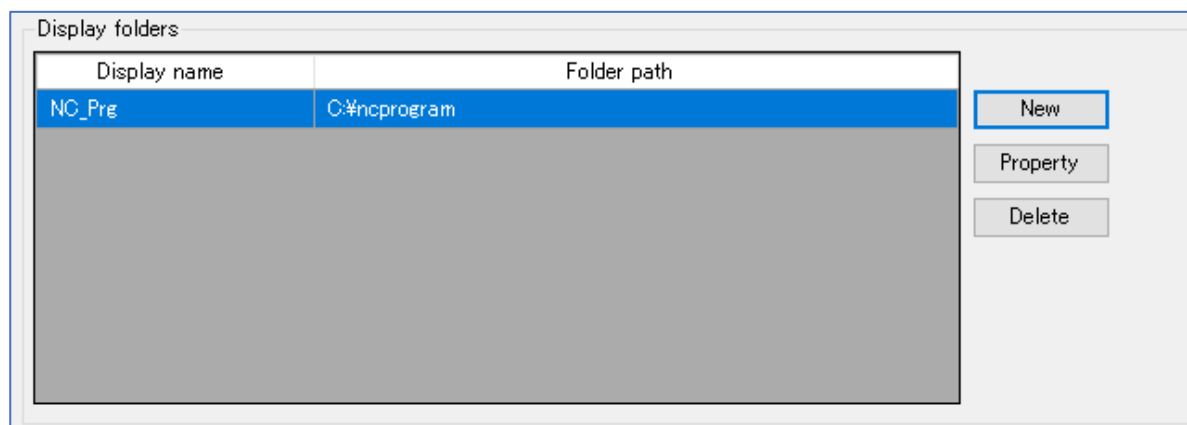
Select the folder you want to set and click the "Select Folder" button to enter the path.

(Setting example)

Configure the settings as shown below and then click the "OK" button.

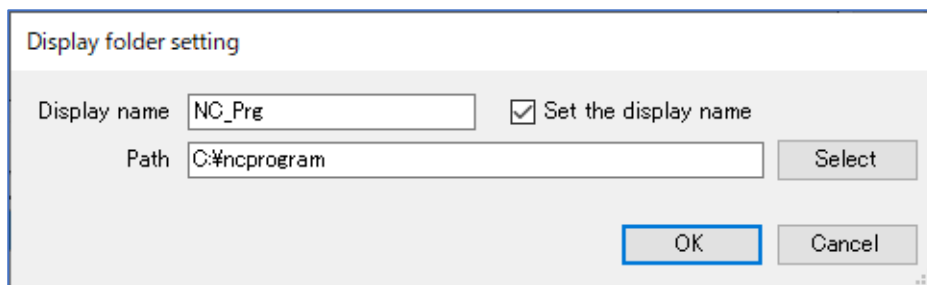


The list screen looks like this.



7-4-2 Change

Select the data you want to change in the list screen and click the "Properties" button to display the following setting screen.



Display folder setting

Display name ☒ Set the display name

Path

Items	Contents
Display name	Displays the name displayed in the "Storage" section of the web screen.
Set the display name	When checked, the display name can be entered.
Path	Enter the path to the folder. Click the "Select" button to open the selection window.

After entering the data, click the "OK" button to display the set data in the list.

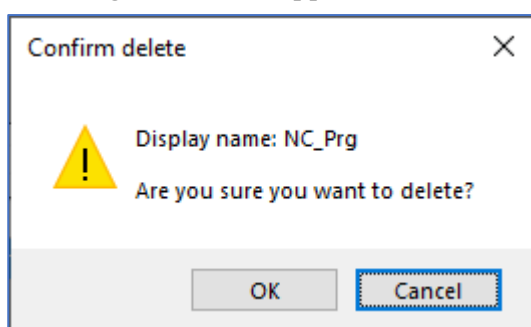
NOTICE




- You cannot set the same display name as an existing display name.
- It is possible to set the same path for multiple display names.

7-4-3 Delete

Select the data you want to delete in the list screen, and click the "Delete" button, and the following screen will appear.



Confirm delete

 Display name: NC_Prg

Are you sure you want to delete?

Click the "OK" button to delete.

Click the "Cancel" button to abort.

NOTE




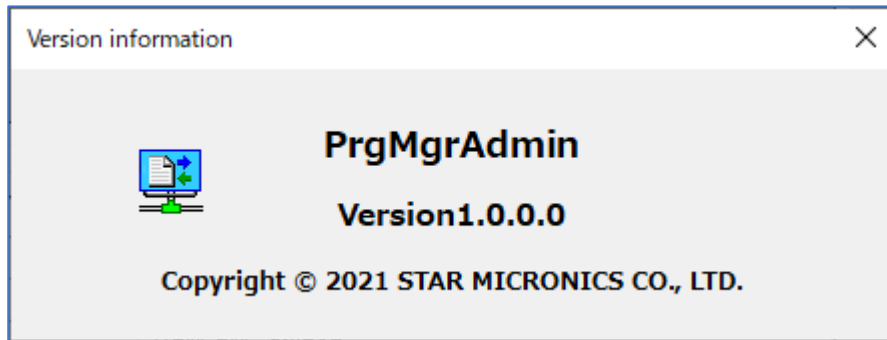
- Only the settings for display will be deleted. The data in the folder will not be deleted.

7-5 Close

Click [Close] button to finish PrgMgrAdmin.

7-6 Version information

Right-click on main screen to display  then click it. Following version information displays.



CHAPTER 8

Program I/O function

Web application

8 Program I/O function Web application

8-1 Access to the top page

Access to the top page in one of following ways.

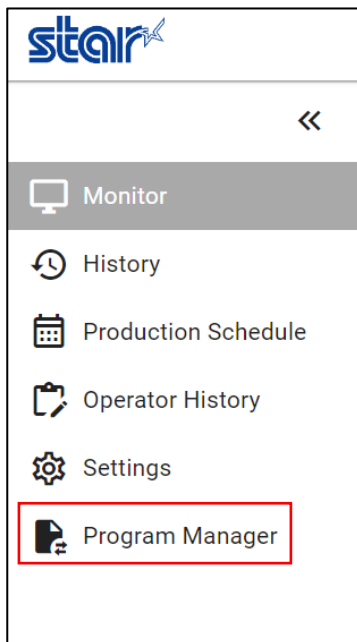
- a) Following address is top page of web application, Program Manager.

http://*****/ProgramManager/ ...Enter the server IP address to *

Access to the address by browser such as Microsoft Edge, etc. Then, “Login” screen will appear.

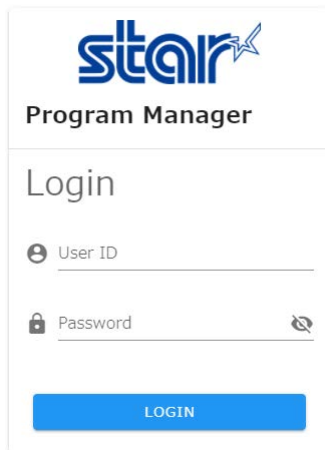
(refer to section 8-2).

- b) Access to the top page from the SMOOSS-i menu.



8-2 Login Screen

When the web application starts, following login screen will be displayed.

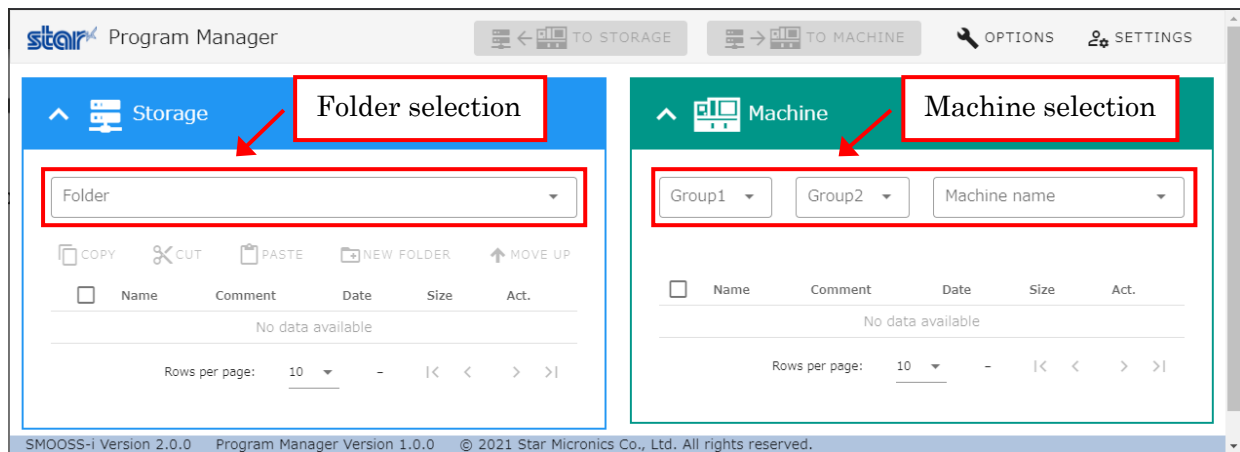


The screenshot shows a web application login screen. At the top, there is a logo with the word "star" in blue lowercase letters, followed by a stylized blue star icon. Below the logo, the text "Program Manager" is displayed in a bold, black, sans-serif font. The main section of the screen is titled "Login" in a large, black, sans-serif font. Below the title, there are two input fields. The first field is labeled "User ID" and has a small circular icon to its left. The second field is labeled "Password" and has a small padlock icon to its left and a small eye icon to its right. Below the input fields, there is a blue rectangular button with the word "LOGIN" in white, uppercase letters.

On the login screen, enter the user ID and password that you set up in PrgMgrAdmin. Once entered, click [LOGIN].

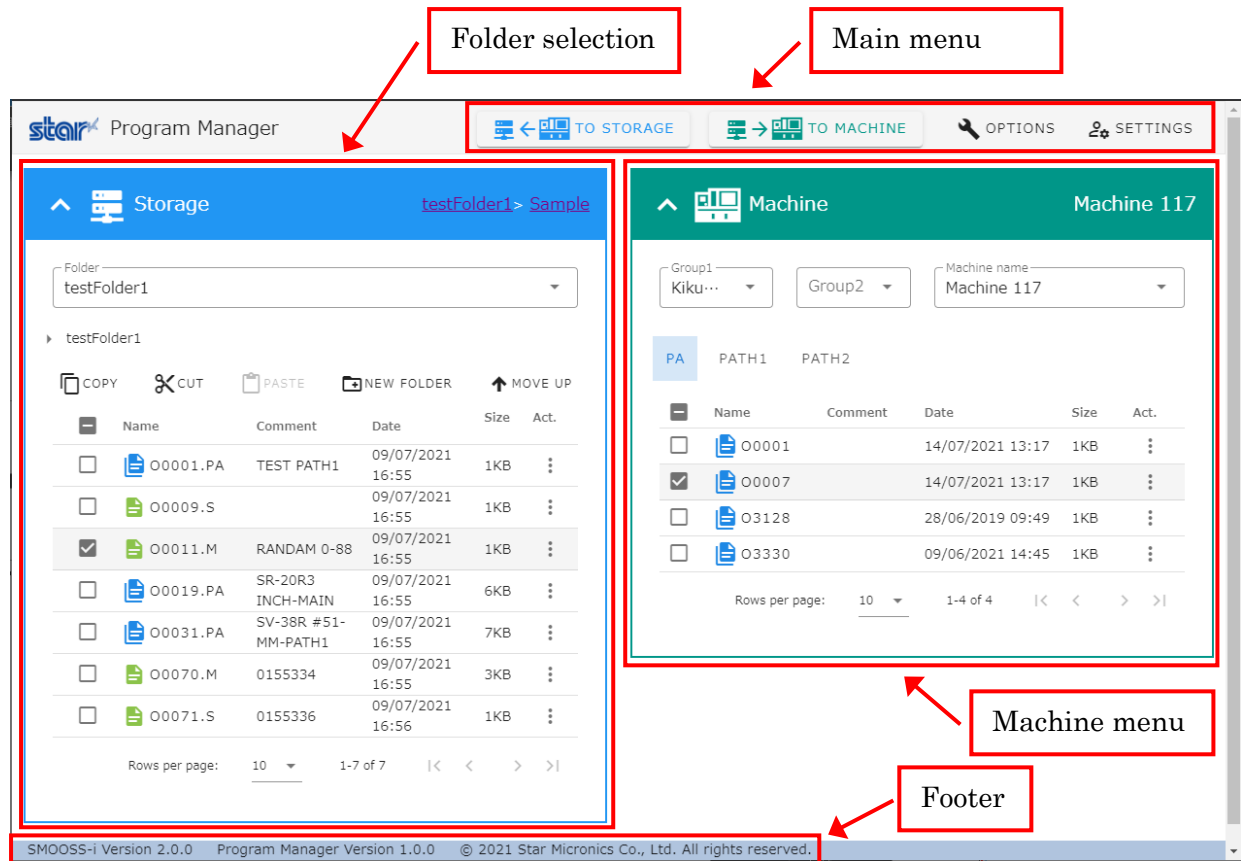
8-3 Main Screen

After successfully logging in, the following main screen will be displayed.



On the main screen, select the root folder from the folder pull-down menu to display the file list in the folder, and select the machine name from the machine name pull-down menu to display the NC program list in the machine.

8-4 Page Layout



8-4-1 Main Menu

At the top of the screen, [TO STORAGE] and [TO MACHINE] that do the transfer process, and [OPTIONS] and [SETTINGS] that change the screen settings.



• [TO STORAGE]

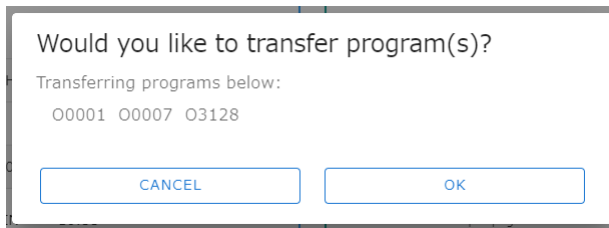
Sends the selected NC program from the NC program list on the machine to the storage.

[TO STORAGE] button will be disabled if not ready to send to storage, for example, if no folder in the storage is selected, or no NC program is selected from the NC program list on the machine.

Disabled:



The confirmation dialog for the transfer will appear if click the [TO STORAGE] button.











Would you like to transfer program(s)?

Transferring programs below:
O0001 O0007 O3128

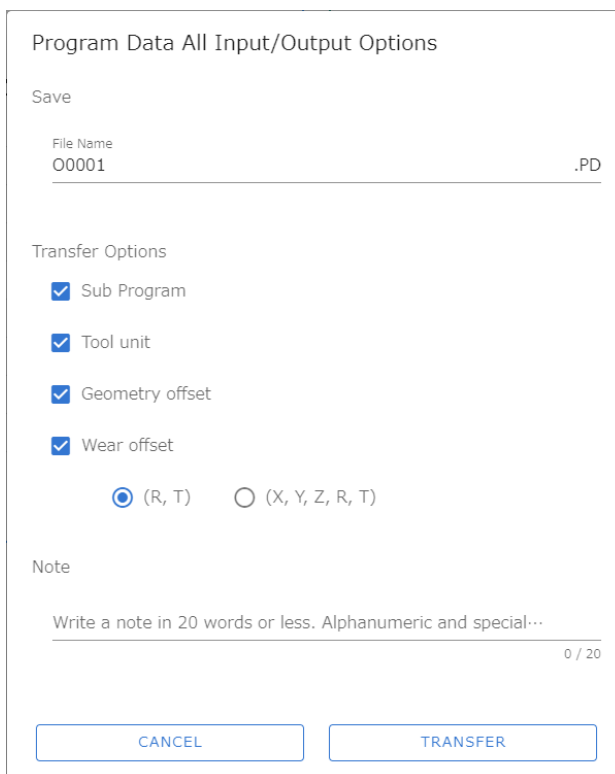
Click [CANCEL] to return to the main screen without transferring the data, or click [OK] to transfer the program.

If a file with the same name already exists in the storage, a sequential number in parentheses will be added to the name of the newly transferred file.

<input type="checkbox"/>	Name	Comment	Date	Size	Act.
<input type="checkbox"/>	 O0001 (2).PA	TEST V2 PATH1	14/07/2021 19:13	1KB	
<input type="checkbox"/>	 O0001.PA	TEST PATH1	09/07/2021 16:55	1KB	
<input type="checkbox"/>	 O0009.S		09/07/2021 16:55	1KB	
<input type="checkbox"/>	 O0011.M	RANDAM 0-88	09/07/2021 16:55	1KB	

Newly transferred file

When transferring a FANUC multi-path program data file, the confirmation dialog for the program data all input/output options will be displayed.



Program Data All Input/Output Options

Save

File Name
O0001 .PD

Transfer Options

☒ Sub Program

☒ Tool unit

☒ Geometry offset

☒ Wear offset

☒ (R, T) ☐ (X, Y, Z, R, T)

Note

Write a note in 20 words or less. Alphanumeric and special...

0 / 20

The program number (name) is entered as the name of the file, but it can be changed to another name.

Subprograms can be transferred at the same time.

Also, file notes can be entered using up to 20 alphanumeric characters and symbols.

- [TO MACHINE]

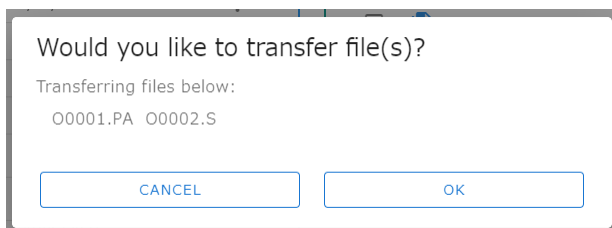
Sends the selected file from the list of files in the storage to the machine.

[TO MACHINE] button will be disabled if the machine name is not selected, or no file is selected from the file list in the storage.

Disabled:

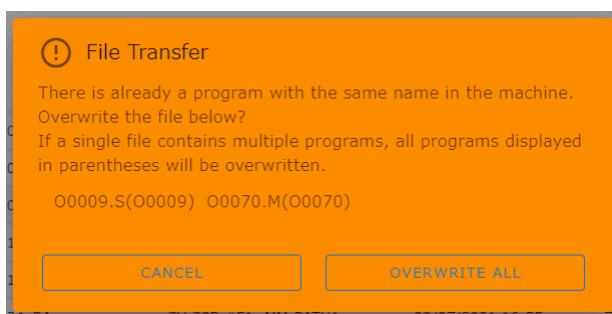


Click [TO MACHINE] button to display the transfer confirmation dialog.

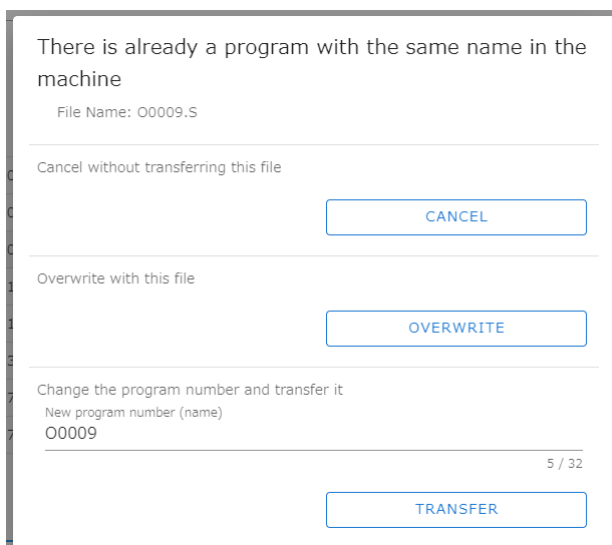


Click [CANCEL] to return to the main screen without transferring the data, or click [OK] to transfer the file.

If NC program with the same name already exists on the machine, a confirmation dialog for overwrite transfer will be displayed.



If there is only one single-path program with the same name, it is possible to change the program number (name) and transfer it from the following confirmation dialog for overwrite transfer.



When transferring a FANUC multi-path program data file, the confirmation dialog for the program data all input/output options will be displayed.

Would you like to transfer file(s)?

Transferring files below:

O0001.PD

Program Data All Input/Output Options

Transfer Options

☒ Sub Program

☒ Tool unit

☒ Geometry offset

☒ Wear offset

☒ (R, T)

☐ (X, Y, Z, R, T)

Note

CANCEL

TRANSFER

Notes displays the contents of the notes listed in the FANUC multi-path program data file.

NOTICE

- To transfer a FANUC multi-path program data file, select only one file.
- Folders in the storage file list cannot be transferred to the machine. If you select a folder, the [TO MACHINE] button will be disabled.

• OPTIONS

The options allow you to set the items to be displayed and the layout of the screen.

Options

Display items

☒ Comment

☒ Date

☒ Size

Layout

☒ Flex

☐ Horizontal

☐ Vertical

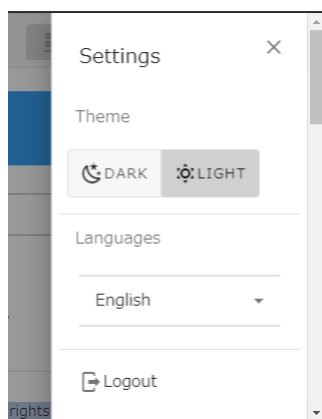
If you uncheck the items in [Display items], the unchecked items will be hidden from the columns of the list displayed in storage and machine.

In the layout options, you can set the following.

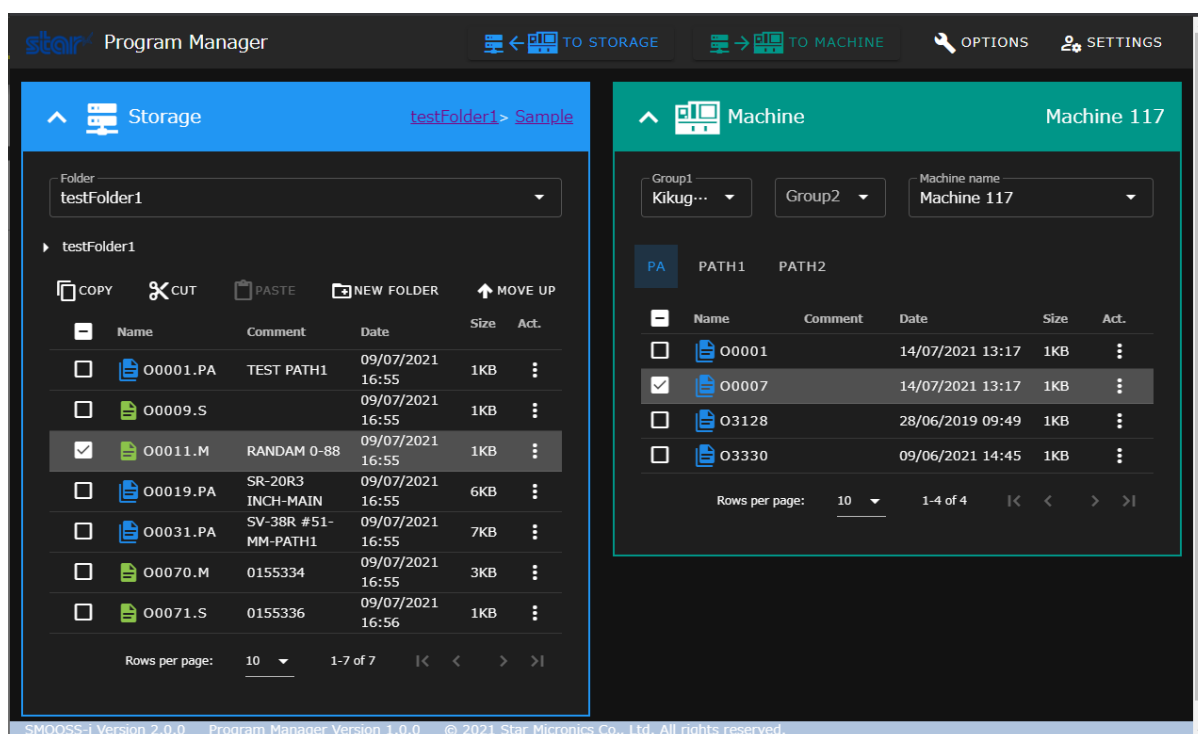
Item	Content
Flex	When the width of the screen is wide, storage and machines are displayed side by side, and when the width of the screen is narrow, they are displayed vertically.
Horizontal	Regardless of the width of the screen, the storage and the machine will always be displayed side by side.
Vertical	Regardless of the width of the screen, the storage and the machine will always be displayed vertically.

• SETTINGS

In the settings, you can specify the theme of the main screen and the language to be displayed. You can also log out logged-in user from here.

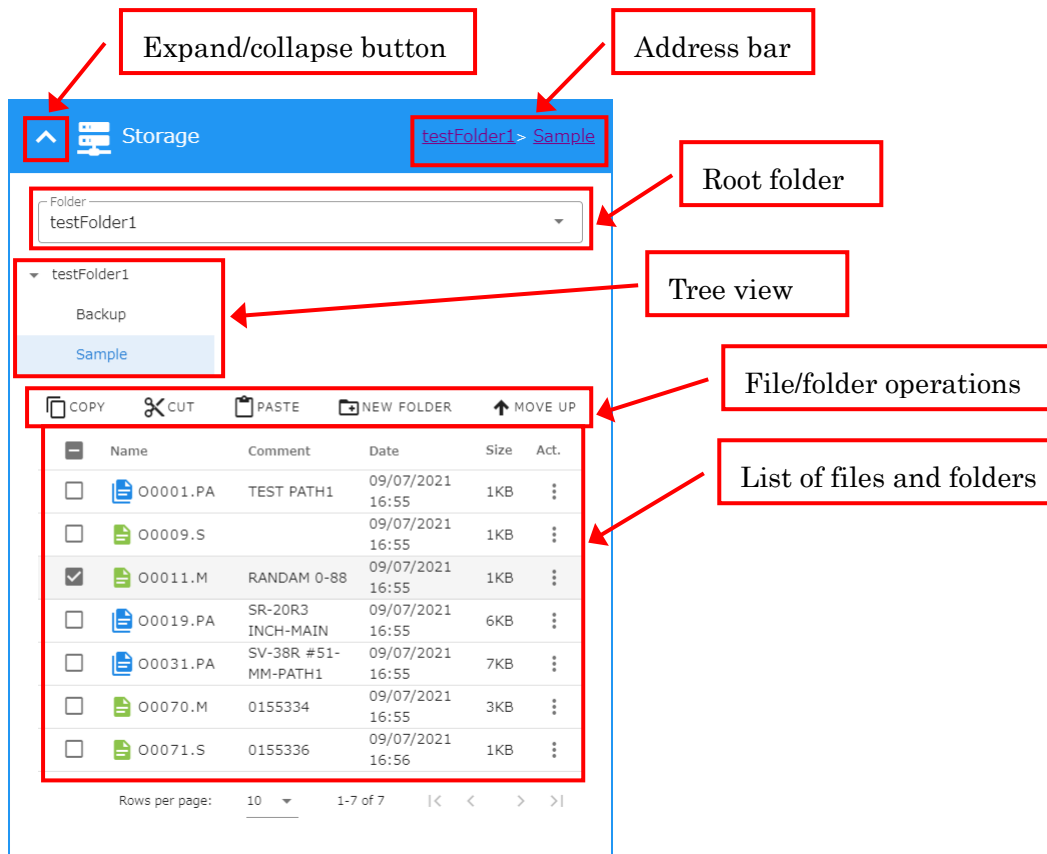


When the theme is set to DARK, the main screen will be displayed in black tones.



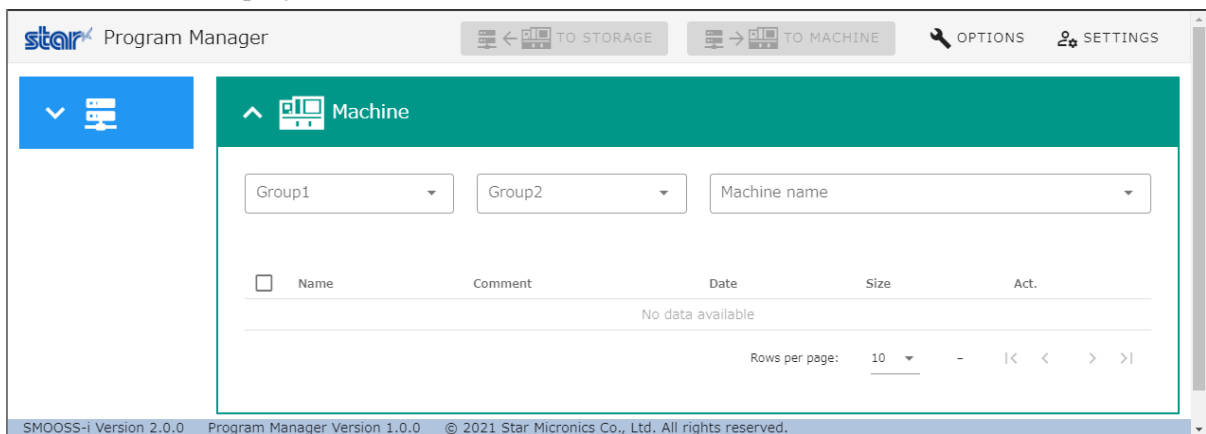
8-4-2 Storage Menu

In the storage menu, you can perform various operations on the files in the selected folder.



- Expand/collapse button

Allows you to close and open the storage view. Closing the storage view will increase the width of the machine displayed.



- Address bar

Displays the currently displayed folder by its address from the root folder. Clicking on the folder name displayed in the address bar will take you to the clicked folder.

- Root folder

Select the root folder from the pull-down menu.

- Tree view

Displays the folder structure of the root folder in the tree view. By clicking on a folder in the tree view, you can change the folder to be displayed.

- File/folder operations

Operations on files and folders. The button will be disabled when the condition is not operable.

Disabled except for [NEW FOLDER]:  COPY  CUT  PASTE  NEW FOLDER  MOVE UP








Selecting a file or folder from the file/folder list will enable [COPY] and [CUT]. Click [COPY] or [CUT] to activate [PASTE], which allows you to copy or move the selected file or folder.

When you move a folder from the root folder, [MOVE UP] will be enabled and clicking on it will take you to the folder one level up from the one you are viewing.

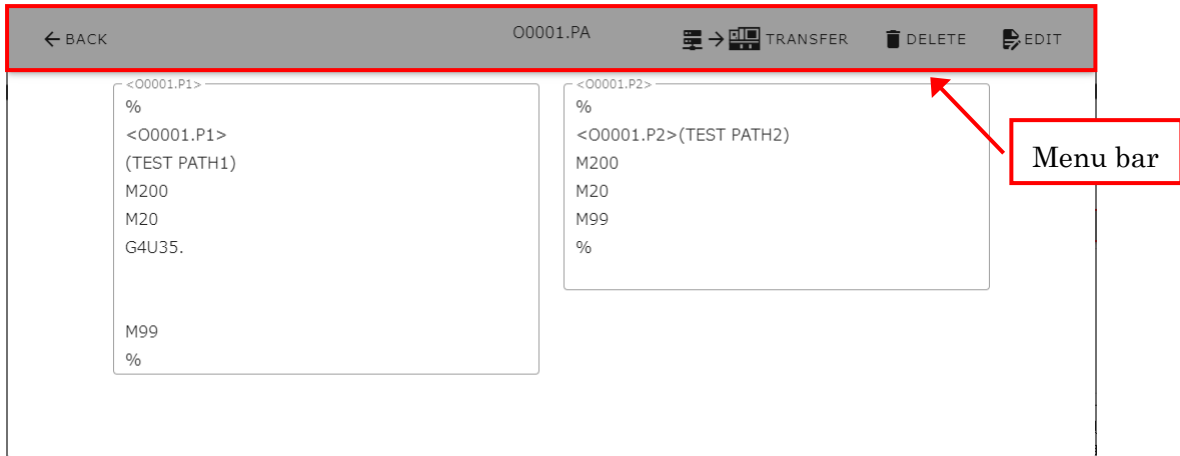
Click [NEW FOLDER] to create a new folder within the currently displayed folder.

- List of files and folders

It displays a list of files and subfolders in the currently displayed folder. The icon to the left of the name allows you to visually identify the type.

Folder	: Green folder icon ()
FANUC NC program file	
Multi-path program file	: Blue multiple document icon ()
Files with multiple programs	: Brown multiple document icon ()
Multi-path program data file	: Orange multiple document icon ()
Single-path program file	: Light green document icon ()
MITSUBISHI NC program file	: Gray multiple document icon ()
Other files	: Purple document icon ()

Clicking on a file will display the contents of the file.

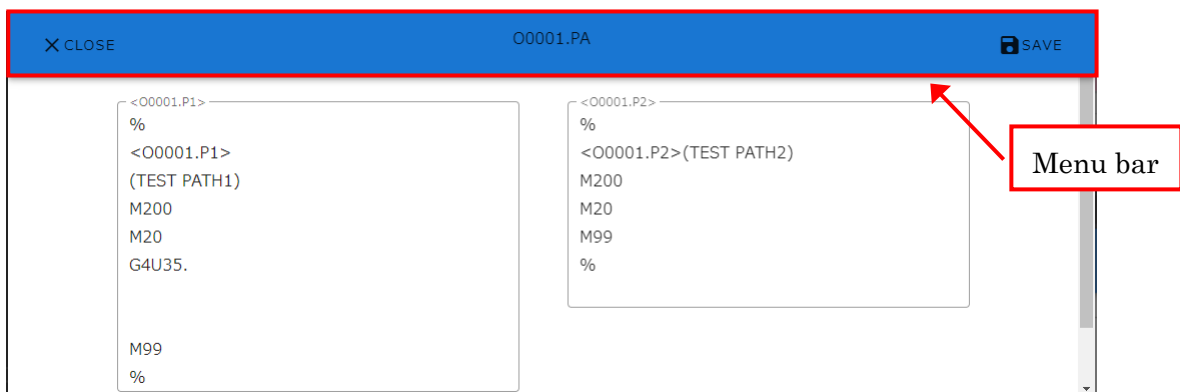


Click [BACK] button on the left side of the menu bar to return to the main screen.

[TRANSFER] button on the right side of the menu bar can be clicked if the machine name is already selected, and will transfer the currently displayed file to the machine.

Click [DELETE] on the right side of the menu bar to delete the currently displayed file.

Click [EDIT] on the right side of the menu bar to open a screen where can edit the contents of the file.

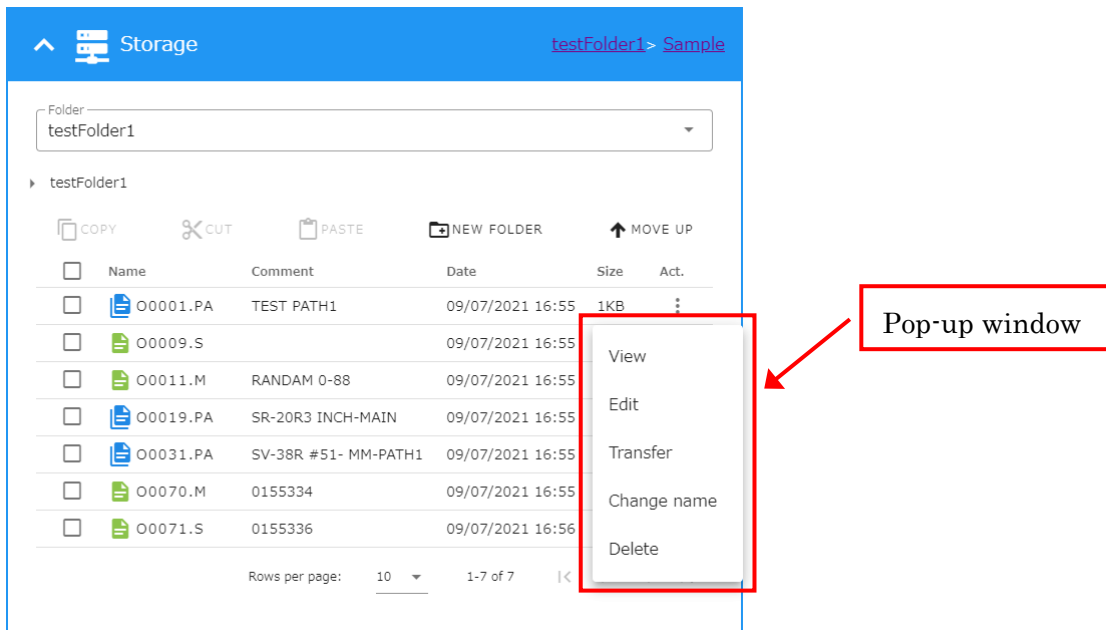


Click [CLOSE] button on the left side of the menu bar to return to the previous screen.

Click [SAVE] on the right side of the menu bar to save the file with the currently displayed contents.

Clicking on a subfolder will take you to the subfolder you clicked on.

Click on the vertical dot icon in the [Act.] column to open a pop-up window that allows to operate individual files.

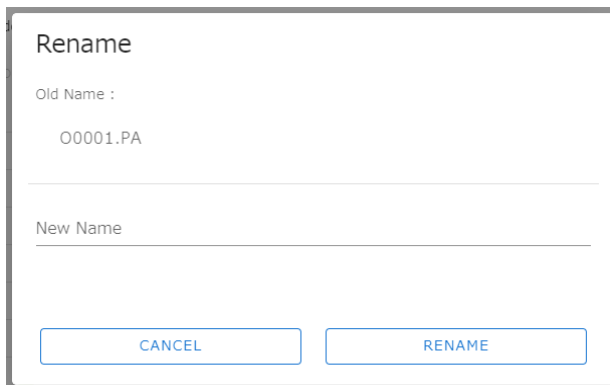


The screenshot shows a file management interface with a blue header bar. The header contains a back arrow, a storage icon, the text "Storage", and a breadcrumb path "testFolder1 > Sample". Below the header, there is a search bar with "testFolder1" entered. A toolbar contains icons for COPY, CUT, PASTE, NEW FOLDER, and MOVE UP. Below the toolbar is a table with columns: Name, Comment, Date, Size, and Act. The table lists seven files. The first file, "O0001.PA", is selected. A context menu is open over the "Act." column of the first row, showing options: View, Edit, Transfer, Change name, and Delete. A red box highlights the context menu, and a red arrow points to it from a label "Pop-up window".

	Name	Comment	Date	Size	Act.
<input type="checkbox"/>	O0001.PA	TEST PATH1	09/07/2021 16:55	1KB	⋮
<input type="checkbox"/>	O0009.S		09/07/2021 16:55		
<input type="checkbox"/>	O0011.M	RANDAM 0-88	09/07/2021 16:55		
<input type="checkbox"/>	O0019.PA	SR-20R3 INCH-MAIN	09/07/2021 16:55		
<input type="checkbox"/>	O0031.PA	SV-38R #51- MM-PATH1	09/07/2021 16:55		
<input type="checkbox"/>	O0070.M	0155334	09/07/2021 16:55		
<input type="checkbox"/>	O0071.S	0155336	09/07/2021 16:56		

Rows per page: 10 1-7 of 7

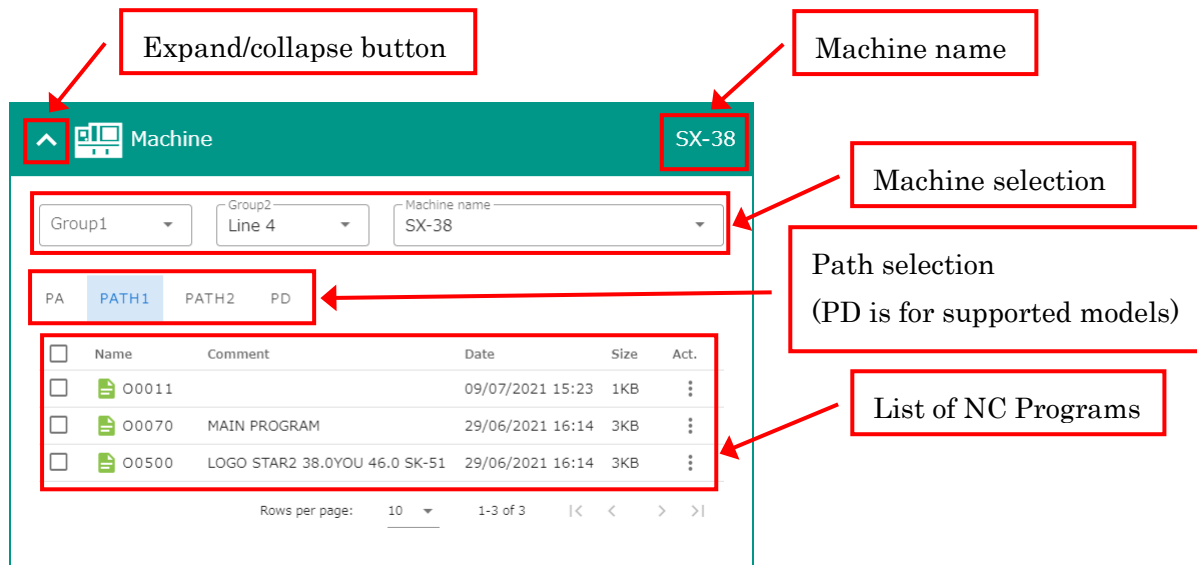
Click [Change name] to rename a file or folder.



The screenshot shows a "Rename" dialog box. It has a title bar "Rename". Below the title bar, there is a label "Old Name :" followed by a text input field containing "O0001.PA". Below this, there is a label "New Name" followed by an empty text input field. At the bottom of the dialog box, there are two buttons: "CANCEL" and "RENAME".

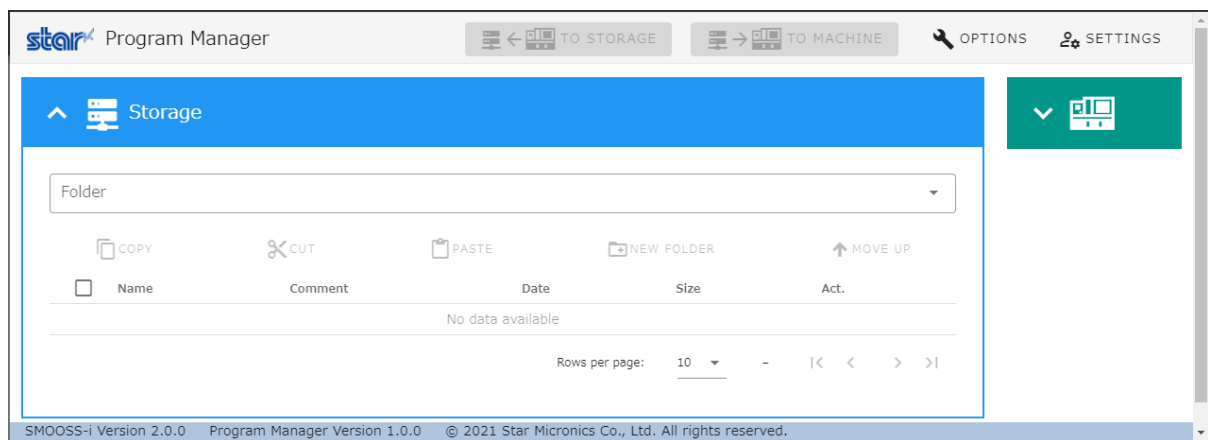
8-4-3 Machine Menu

The machine menu allows you to perform various operations on the NC program of the selected machine.



- **Expand/collapse button**

Allows you to close and open the machine view. Closing the machine view will increase the width of the storage displayed.



- **Machine name**

Displays the machine name selected in [Machine selection].

- **Machine selection**

Select the machine from the pull-down menu.

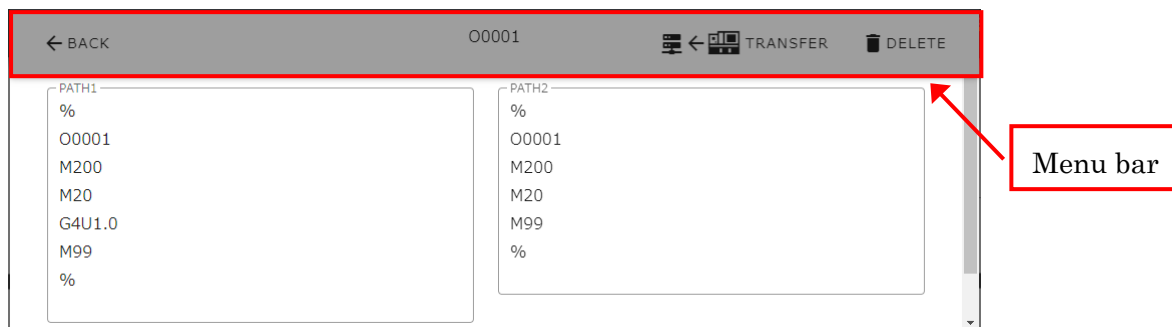
- **Path selection**

Select a path to display the NC program list of the machine.

- List of NC programs

Displays the NC program list for the currently selected path.

Click on the NC program to display the contents of the NC program.

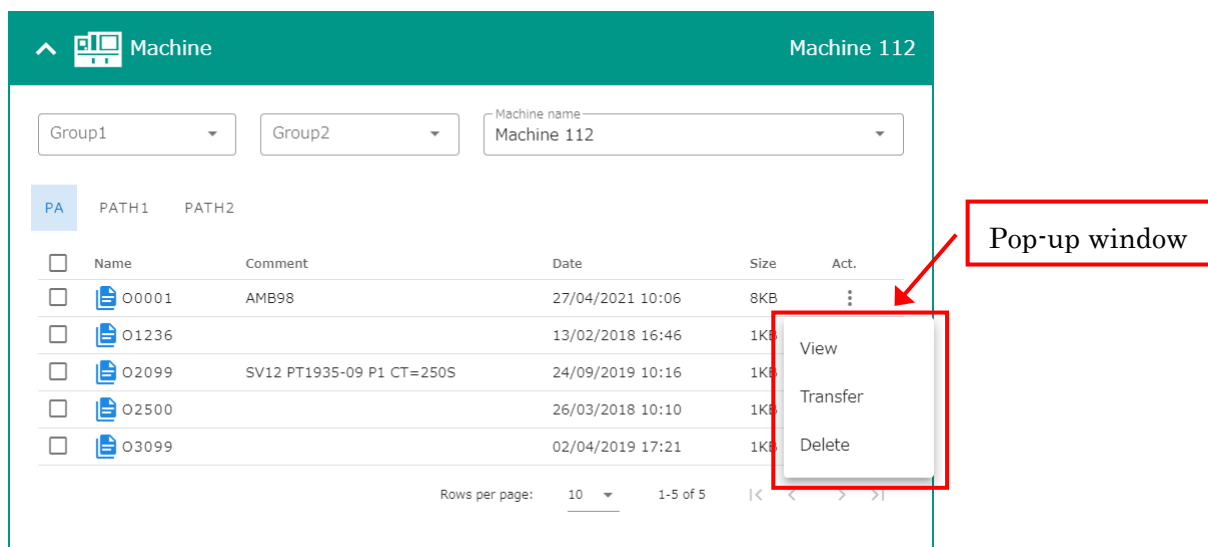


Click [BACK] button on the left side of the menu bar to return to the main screen.

[TRANSFER] button on the right side of the menu bar can be clicked if the folder in storage is already selected, and will transfer the currently displayed NC program to the folder in storage.

Click [DELETE] on the right side of the menu bar to remove the currently displayed NC program from the machine.

Click on the vertical dot icon in the [Act.] column to open a pop-up window that allows you to control individual NC programs.



8-4-4 Footer

Displays the version number of SMOOSS-i .

SMOOSS-i Version 2.2.0 © 2022 Star Micronics Co., Ltd. All rights reserved.

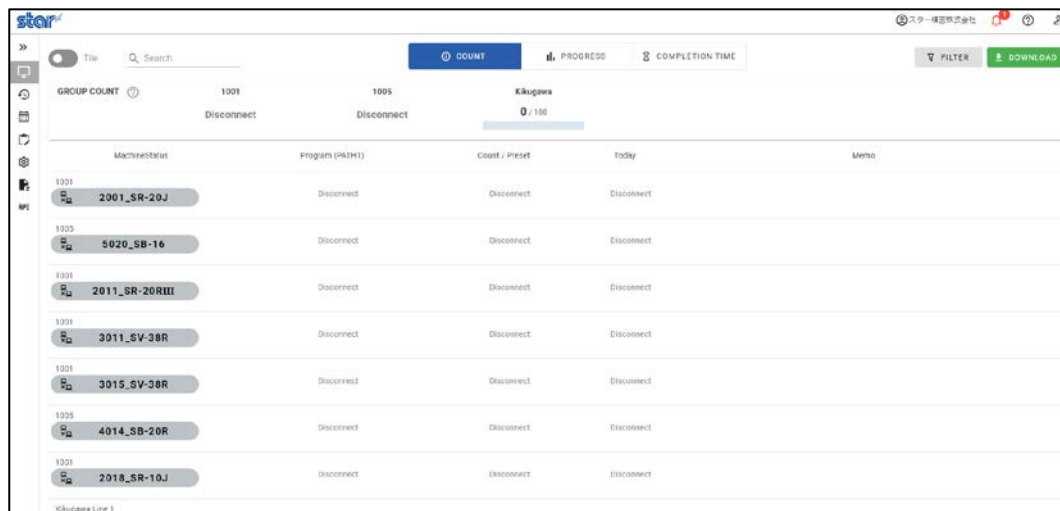
CHAPTER 9

Trouble shooting

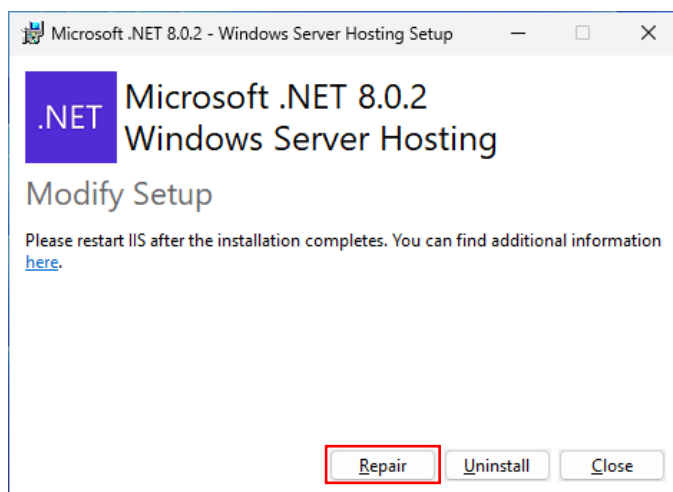
9 Trouble shooting

- Login failure

Login fails despite entering the correct ID and password.



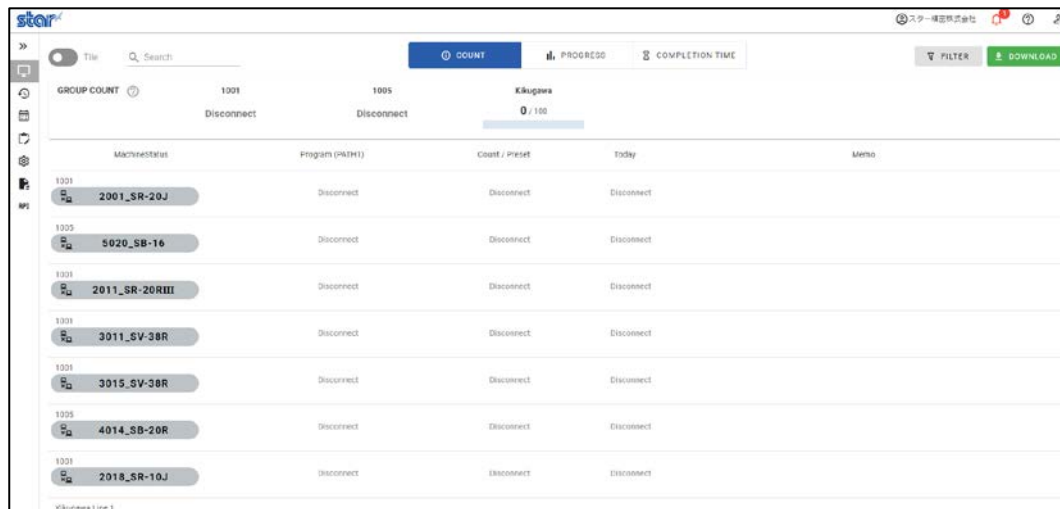
- 1) Refer to 2-5-1 Flow of installation and try to Install of libraries software (2-5-4 2-5-5 2-5-6).
- 2) Launch each installer and execute “Repair”.



- 3) Restart the server.

- **Disconnection (Unavailable of communication with machine)**


Status of the list screen indicate “Disconnection” even though the machine power is ON.




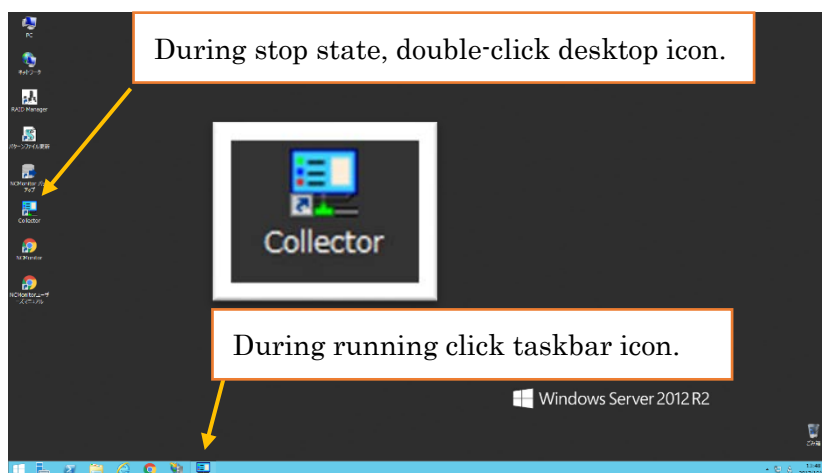
The screenshot shows the 'ster' web application interface. At the top, there are tabs for 'COUNT', 'PROGRESS', and 'COMPLETION TIME'. Below the tabs, there are filters for 'GROUP COUNT' (1001, 1005, Kikugawa) and a 'Disconnect' status. The main table lists machines with columns for 'MachineStatus', 'Program (PATH)', 'Count / Preset', 'Today', and 'Memo'. All machines listed have a 'Disconnect' status.

MachineStatus	Program (PATH)	Count / Preset	Today	Memo
1001 2001_SR-20J	Disconnect	Disconnect	Disconnect	
1005 5020_SB-16	Disconnect	Disconnect	Disconnect	
1001 2011_SR-20RIII	Disconnect	Disconnect	Disconnect	
1001 3011_SV-38R	Disconnect	Disconnect	Disconnect	
1001 3015_SV-38R	Disconnect	Disconnect	Disconnect	
1005 4014_SB-20R	Disconnect	Disconnect	Disconnect	
1001 2018_SR-10J	Disconnect	Disconnect	Disconnect	

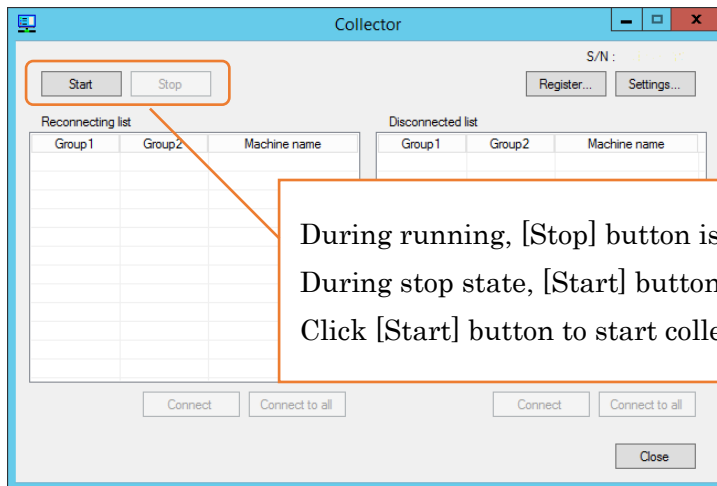
1) Start Collector.

When Collector is running, click the [Collector] icon  of taskbar.

When Collector is not running, double-click the [Collector] icon  of desktop to start.

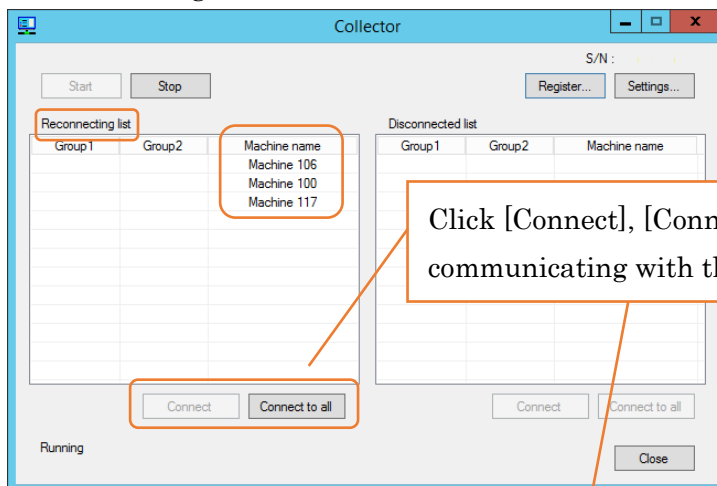


2) Check the status of Collector. Then start collecting information if Collector is stop state.

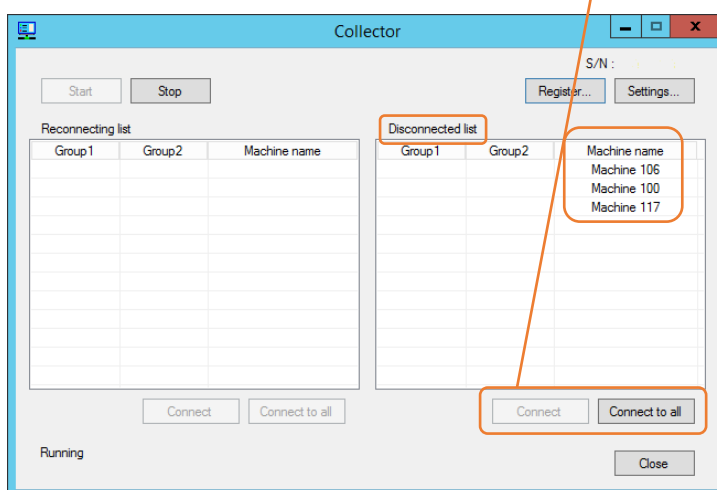


During running, [Stop] button is effective.
During stop state, [Start] button is effective.
Click [Start] button to start collecting information.

3) When Collector is running, check the machine of “Reconnecting list” or “Disconnected list”.
When machines listed in each list, click “Connect” or “Connect to all” button to start communicating with machine.



Click [Connect], [Connect to all] button to start communicating with the machine.



4) When machines remain in “Reconnecting list” or “Disconnected list” after step 3), restart the machine.
Then click “Connect” or “Connect to all” button again to connect.

- **“COLLECTOR SERVICE ERROR” is displayed**

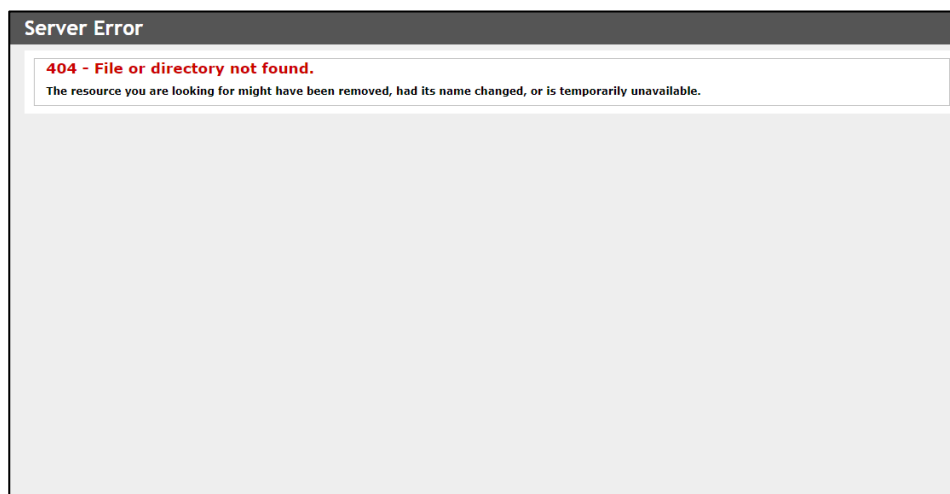
“COLLECTOR SERVICE ERROR” is displayed at the top of the screen.



Refer to “**Disconnection (Unavailable of communication with machine)**” on the previous page.

- **Web page cannot display.**

In the case that Error message “404 – File or directory not found.” displays when accessing to the top page of SMOOSS-i.



Check with following steps.

- 1) Clear Web page cache

Push [Shift] + [F5] key to clear the page cache.

- 1) Operation check on the server

Double click the desktop icon of [SMOOSS-i] on the server to display the top page of SMOOSS-i.

- 2) In the case that the top page of SMOOSS-i displays correctly,

Operation monitoring system is running normally. Check the web page address that could not display on the terminal.

Address is `http://*****/SMOOSS-i/` Enter the server IP address to *

If the address is correct, check whether the terminal connects with the network.

- 3) In the case that all machine status is disconnection or is not renewed however the top page of SMOOSS-i displays,

Server does not connect to the network correctly, restart the server then start Collector.

- 4) In the case that display does not change after restarting the server,

Check if LAN cable is connected correctly.

- **History is not recorded**

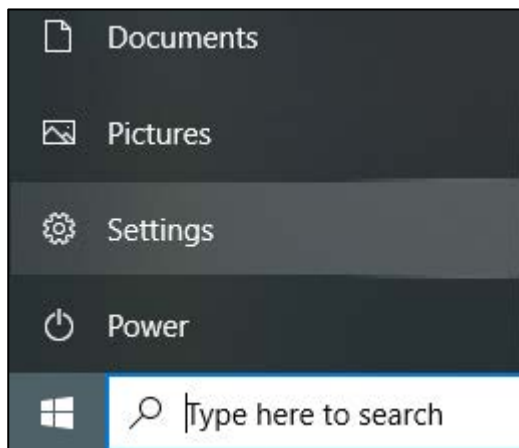
This software communicates with machine by specific time span to collect information therefore status changing in short time may not be recorded as history.

- **After starting the server, "Collector stop" is displayed. It is not displayed after restarting the server. (Windows10, 11)**

Disable the fast startup feature on Windows.

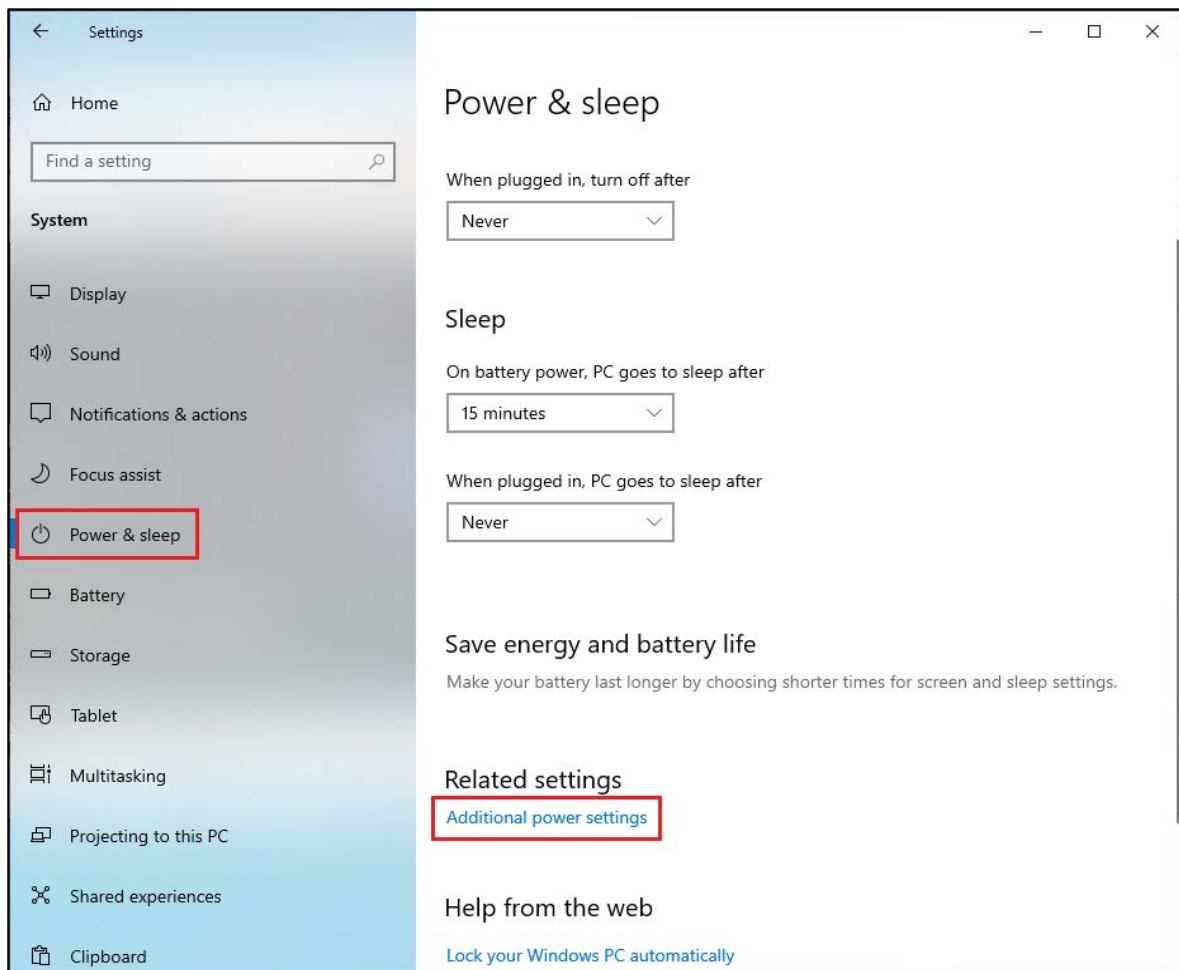
[Windows10]

1. Open the Settings menu by clicking Start and Settings.

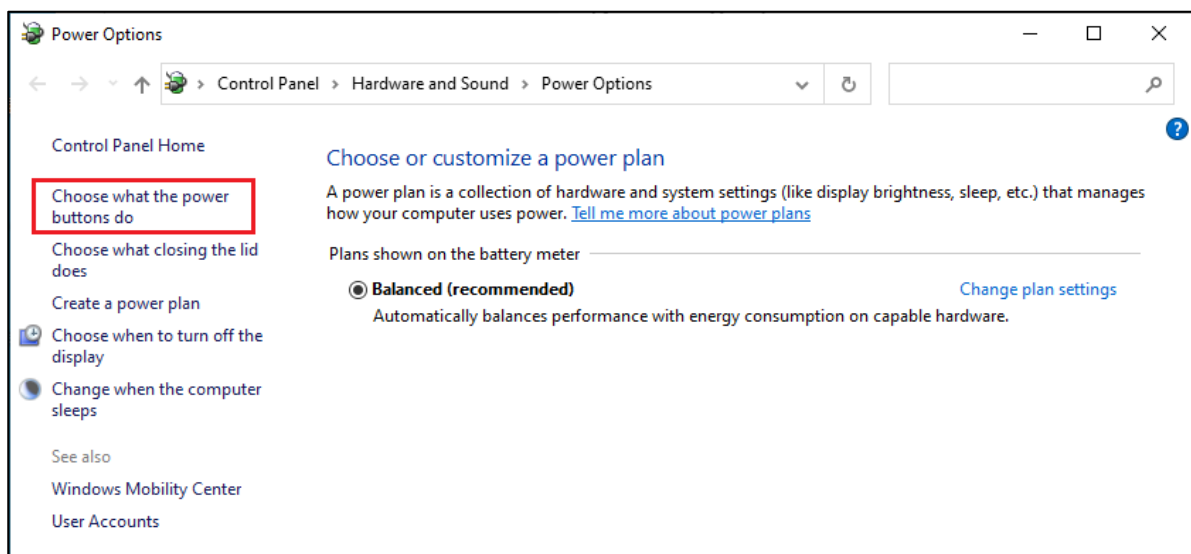


2. In the Settings menu, go to System, then Power & sleep.

3. Select Additional power settings.

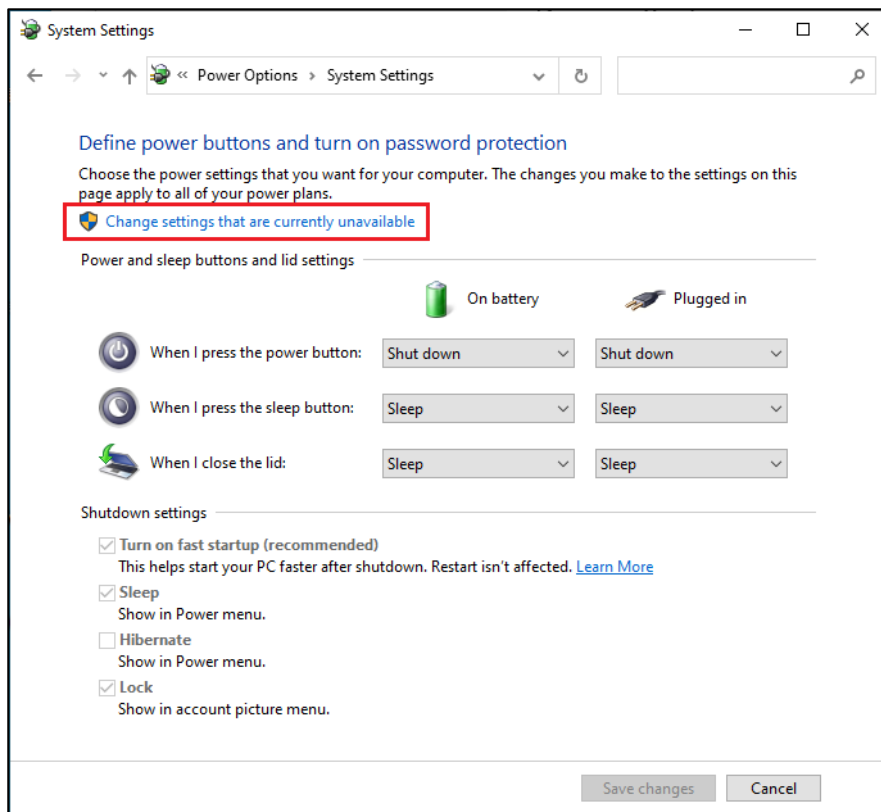


4. The Power Options window will open. Click Choose what the power buttons do.

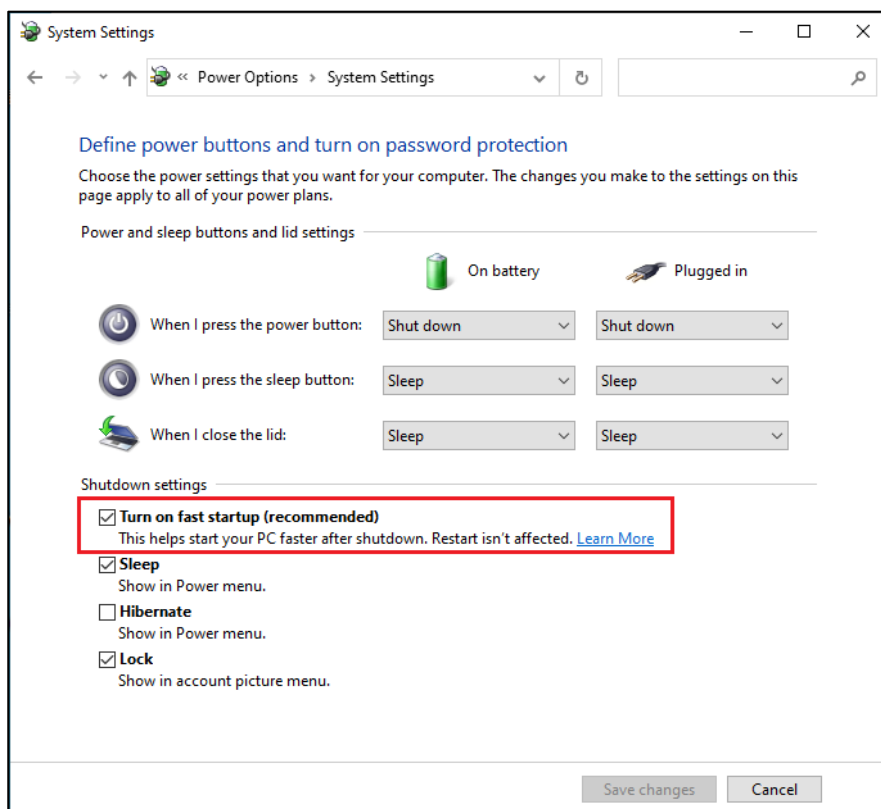


5. Click Change settings that are currently unavailable.

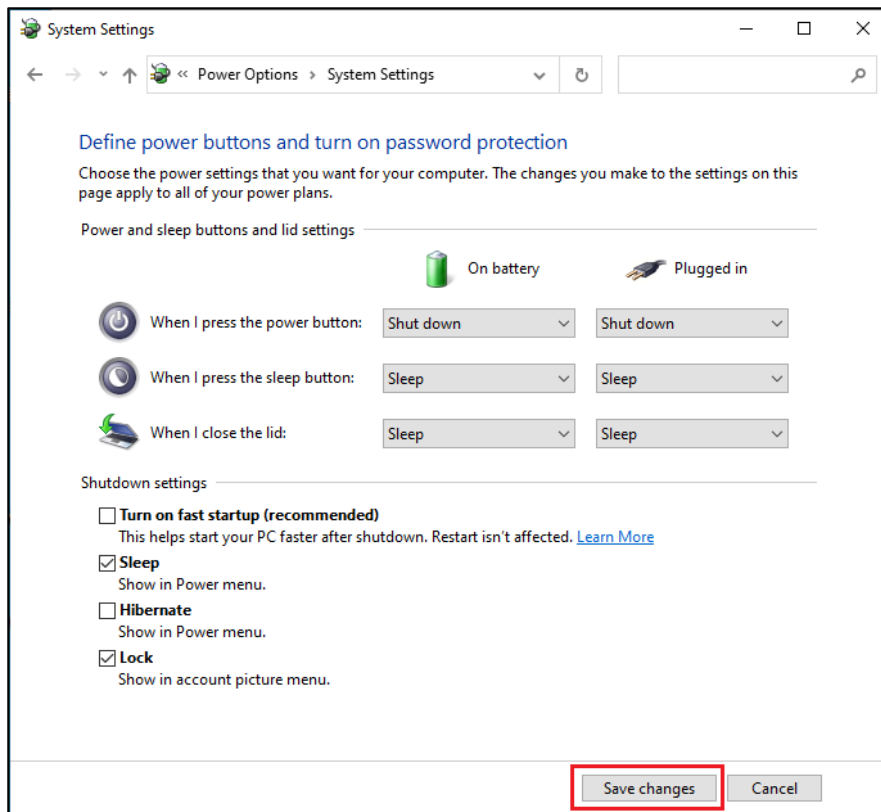
When User Account Control displays, click [Yes]



6. At the bottom of the window is a Shutdown settings section. In this section, there is an option labeled Turn on fast startup (recommended). Deselect the box.

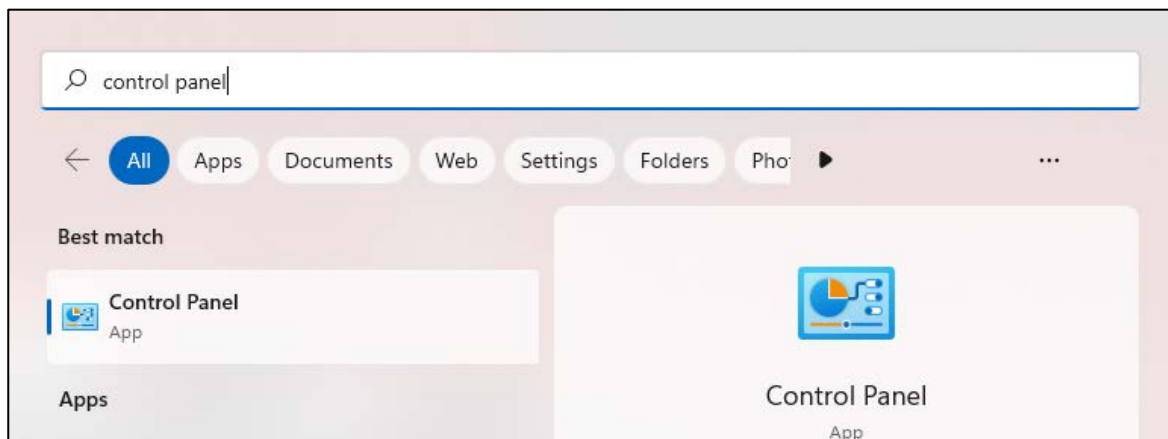


7. Click Save changes and exit out of the window.

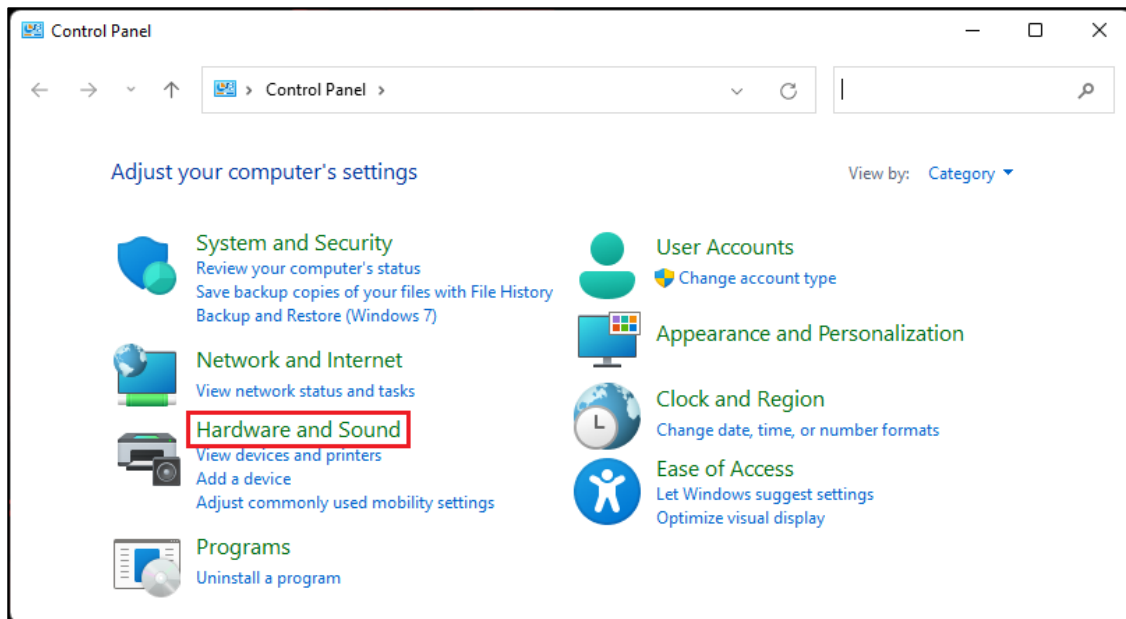


[Windows11]

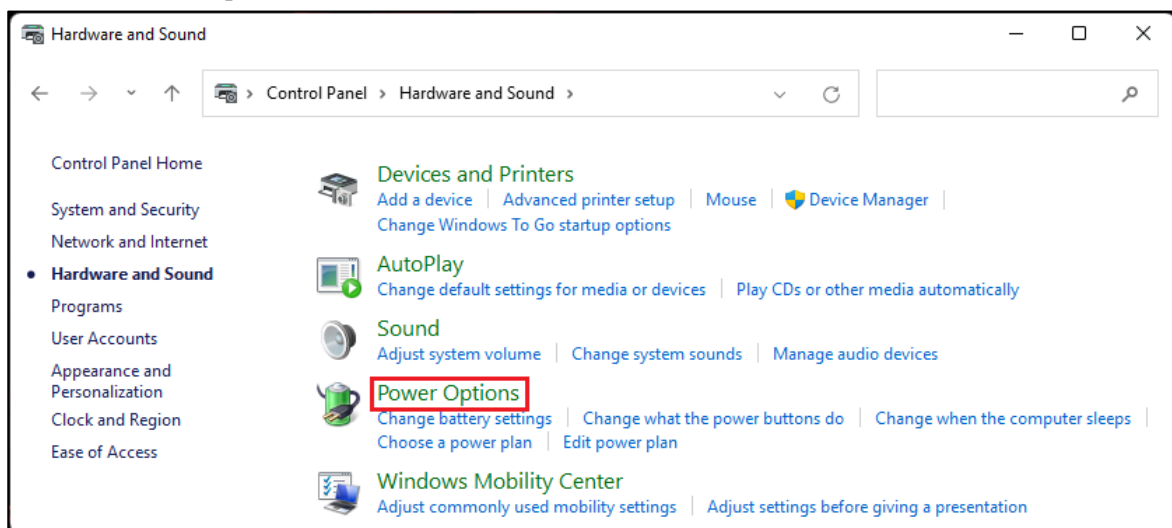
1.Go to Start, search for and select Control Panel.



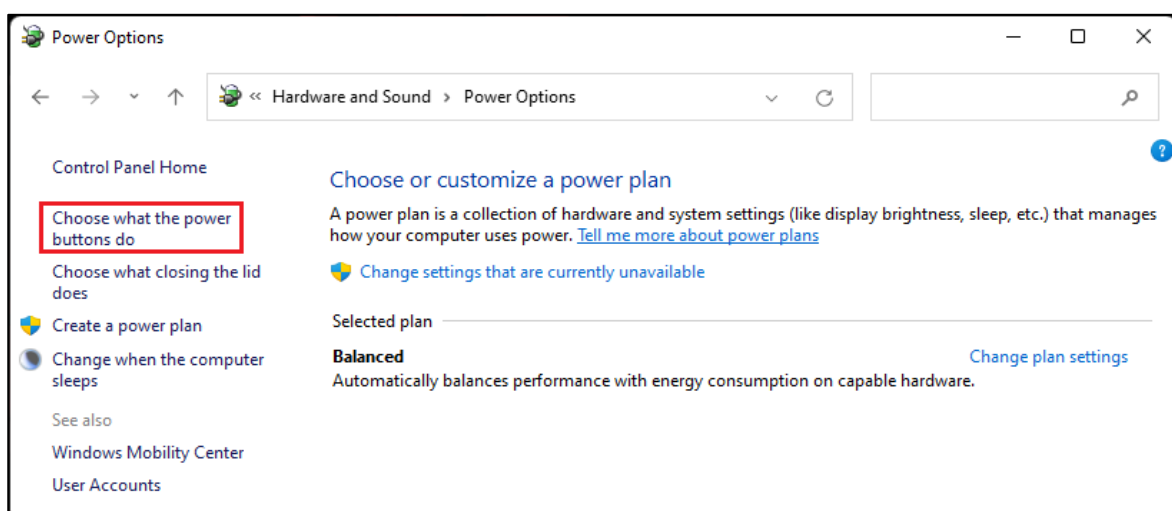
2. In the Control Panel, click Hardware and Sound.



3. Select Power Options.

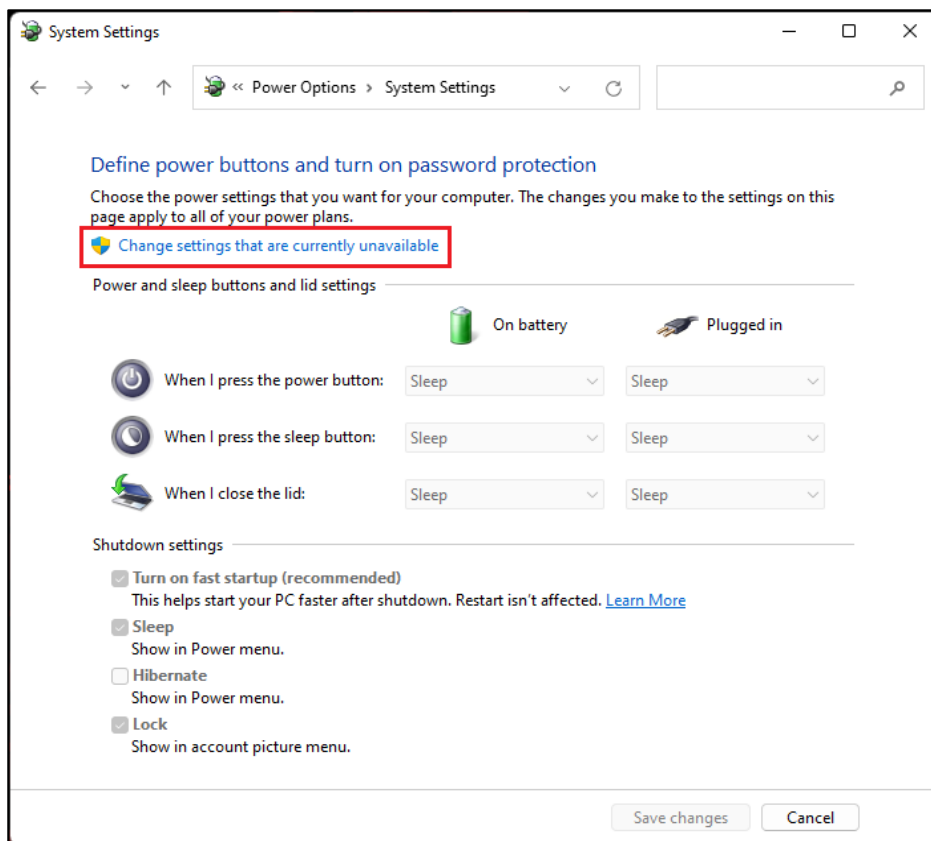


4. Click Choose what the power buttons do.

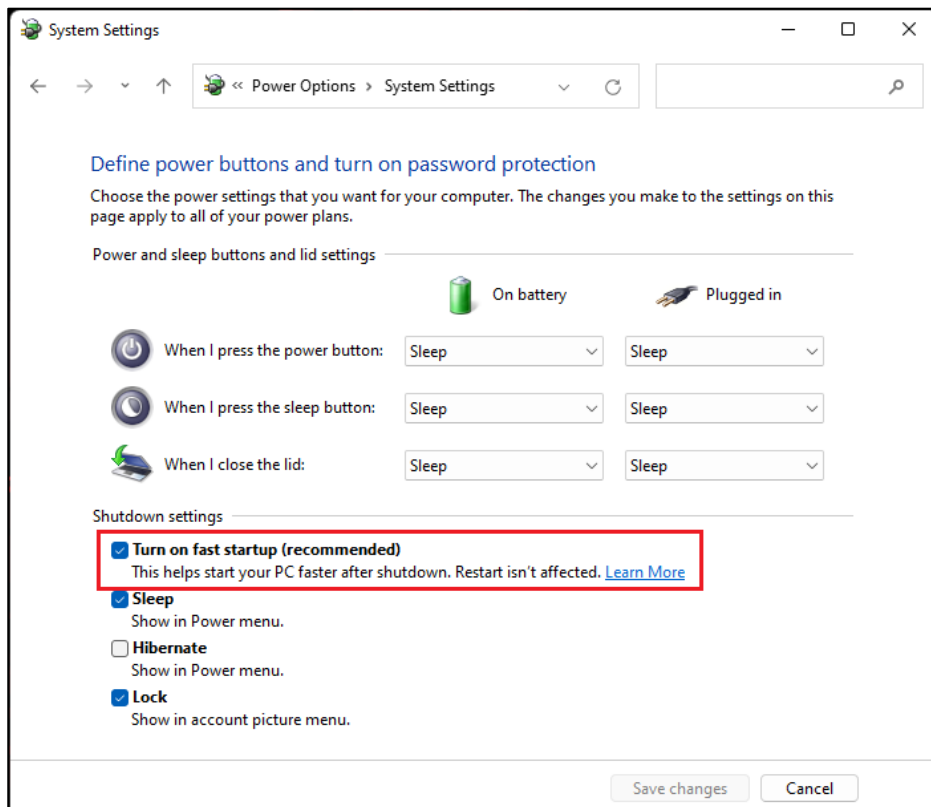


5. Click Change settings that are currently unavailable.

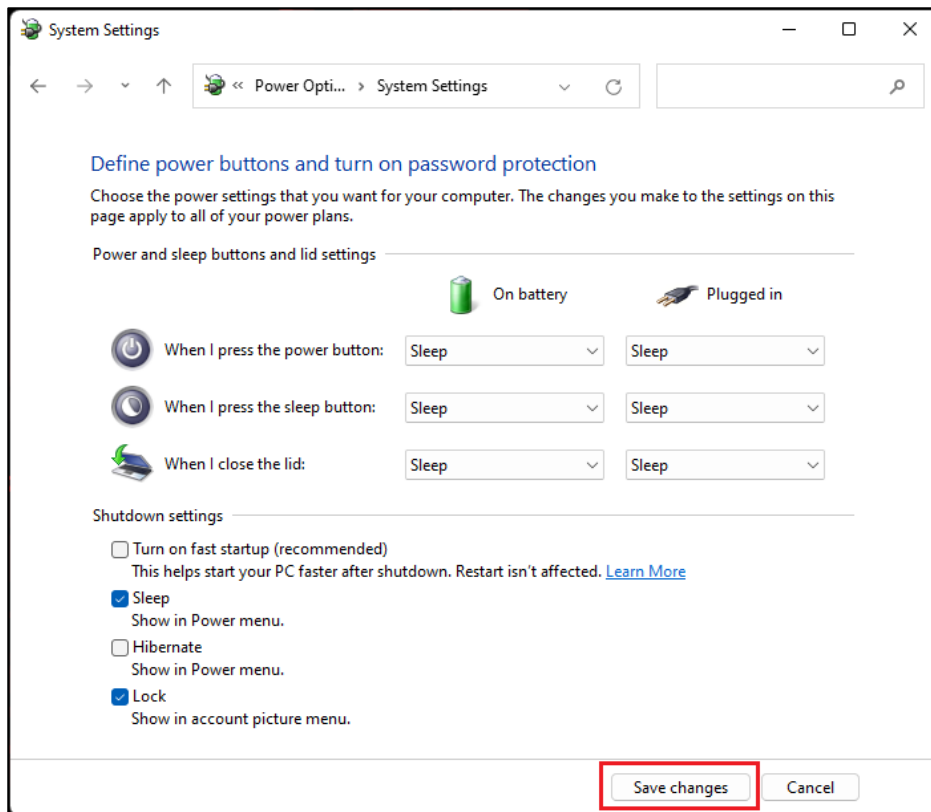
When User Account Control displays, click [Yes]



6. At the bottom of the window is a Shutdown settings section. In this section, there is an option labeled Turn on fast startup (recommended). Deselect the box.



7. Click Save changes and exit out of the window.



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