

# 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.



## 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.

<b>User name:</b>	<b>STARMONITOR</b>
<b>Password:</b>	<b>GREEN2020</b>

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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            MITSUBISHI M80</p> <ul style="list-style-type: none"> <li>• LAN cable wiring is necessary depending on machine type. Please inquire STAR MICRONICS in this case.</li> <li>• When Ethernet has already been used, SMOOSS-i cannot be used in some cases. Please inquire STAR MICRONICS in this case.</li> </ul> <p>*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® 10 Pro 64bit (*3)            Windows® 11 Pro (*3)            Only these Windows® operating system support SMOOSS-i.</p> <p>Hardware (*4)(*5)</p> <ul style="list-style-type: none"> <li>• CPU: Intel® Core™ i3 processor or higher.</li> <li>• Memory: 8GB or more.</li> <li>• Hard Drive: 500GB or more (RAID1 type recommended)</li> <li>• Disk Drive: Optical drive support read of CD-R              (Used when installing software)</li> <li>• Display: 1280 × 1024 resolution or more</li> <li>• LAN interface: 100BASE-T or more</li> </ul> <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	<p>PC(Windows®) Supported OS Windows® 10 Windows® 11 Browser Google Chrome Microsoft Edge®</p> <p>• Display: 1920×1080 (Full HD) resolution or more is recommended.</p>
	<p>iPad® / iPad Air® / iPhone® (*6) Supported OS iOS 10 or onwards Browser Google Chrome Safari®</p>
	<p>Android tablet/ Smart phone (*6) Supported OS Android 6.0 or onwards Browser Google Chrome</p>
	<p>• 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.</p>
Networking device	<p>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.</p>
	<p>LAN switch Use LAN switch for business.</p>
	<p>• 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.</p>

## 1-2 Software

Specifications	Details	Chapter	Remarks
Monitoring	<ul style="list-style-type: none"> <li>•Real time displaying for machine operation status.</li> <li>•Totaling display per group</li> <li>•Displaying production progress against the schedules (For improving visibility on large screen)</li> <li>•Displaying completion date and time</li> <li>•Tiled screen display</li> </ul>	4-4	
Dashboard	<ul style="list-style-type: none"> <li>•Displaying details</li> <li>•Displaying machine history per day</li> <li>•Displaying tool life</li> </ul>	4-5	
History	<ul style="list-style-type: none"> <li>•Displaying machine status history</li> <li>•Displaying alarms per generated number of times</li> <li>•Graphic displaying for processed results/production schedule</li> <li>•Displaying power consumptions</li> </ul>	4-6	
Production Schedule	<ul style="list-style-type: none"> <li>•Setting/Displaying production schedule</li> <li>•Displaying schedules as Gantt charts</li> </ul>	4-7	
Operator History	<ul style="list-style-type: none"> <li>•Input and preserve number of defective products.</li> <li>•Preservation of user's original work record</li> </ul>	4-8	
Web API	<ul style="list-style-type: none"> <li>•Data access through the Web (REST) API</li> </ul>	4-10	
Notification	<ul style="list-style-type: none"> <li>•Alarm generation is notified by E-mail</li> <li>•Notification by E-mail is sent when communication is disconnected with machine</li> </ul>	5-2	*1 *2
Back-up function for CNC data	<ul style="list-style-type: none"> <li>• Back-up for machining program</li> <li>• Back-up for parameter data</li> <li>• Back-up for SRAM</li> </ul>	3-9	
Program I/O function	<ul style="list-style-type: none"> <li>• Input and output of machining program</li> <li>• Display and edit of machining program contents</li> <li>• Access restriction for each user</li> </ul>	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.

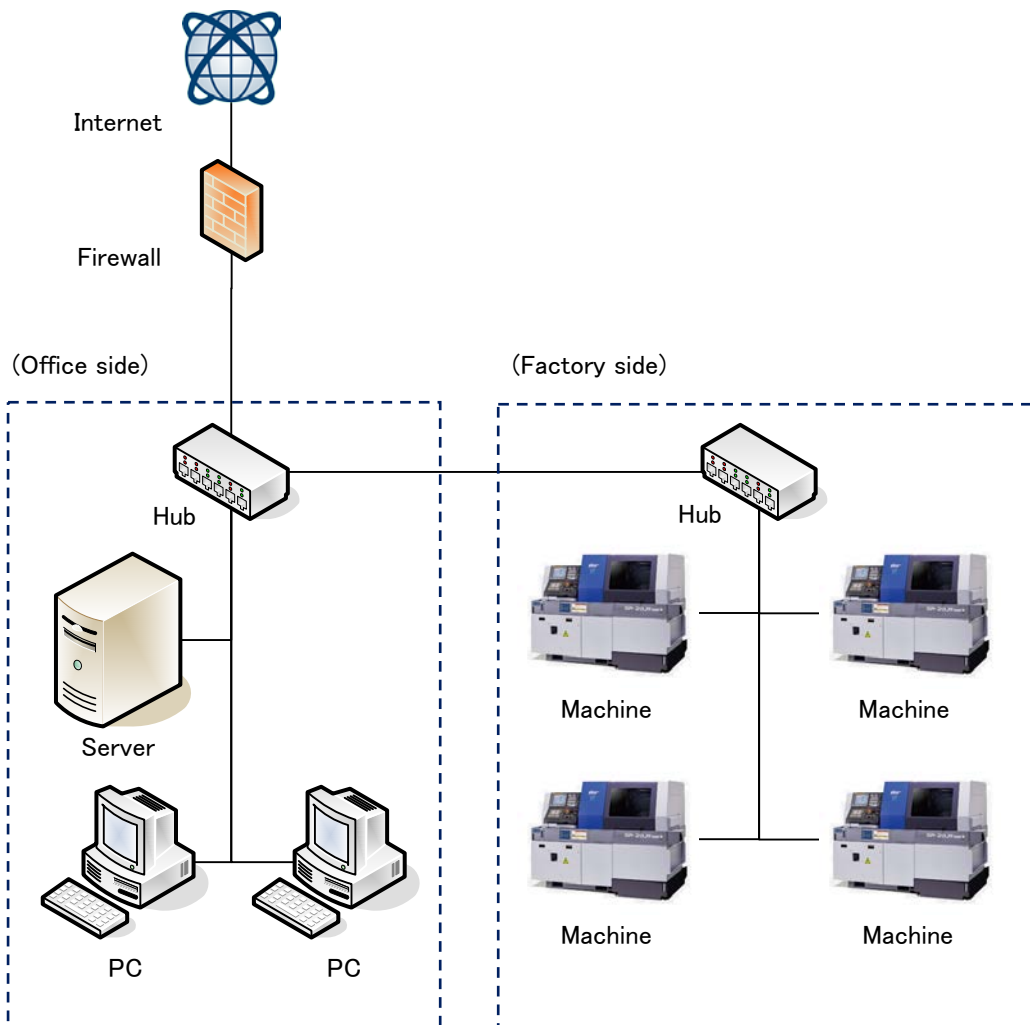
	Items	Contents	Chapter
1	Network construction	When network have not been constructed in factory and office, construct network. In addition, client devices should be prepared as necessary.	2-2
2	Cable connection	Connect network cable which has been prepared by the user to the machine side interface.	2-3
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
- 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/ Oi (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.

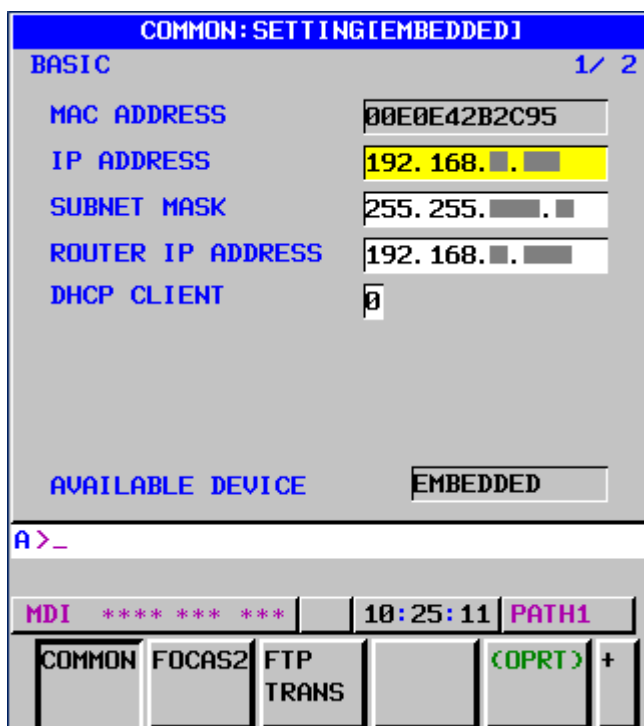
If [ETHERNET] is selected, [MULTI-FUNC ETHER] will appear at the top of the screen thereafter.

**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.



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.

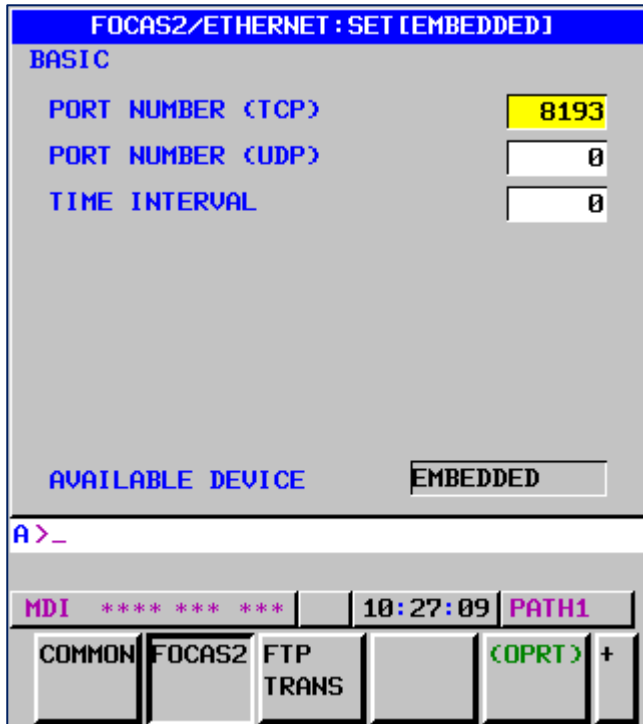
Setting items on common screen.

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

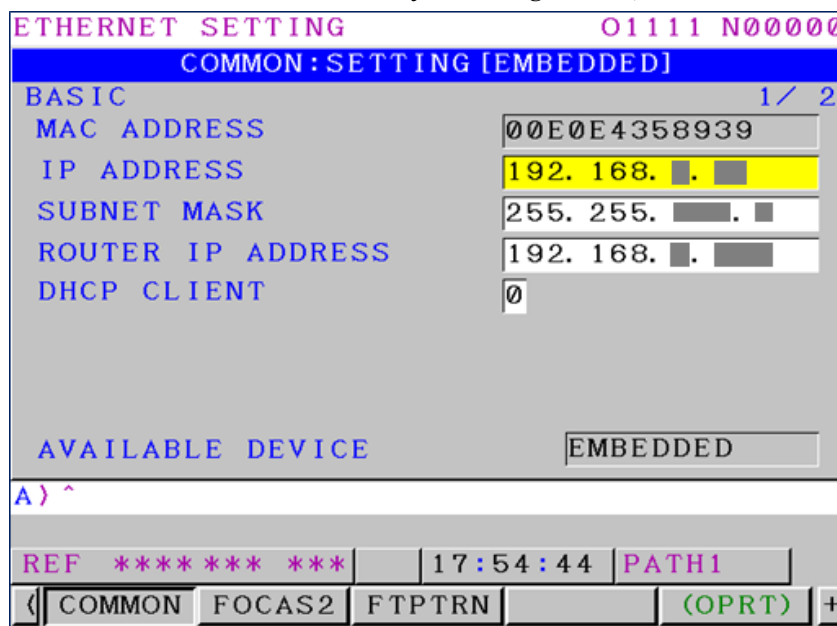
1) Press the SYSTEM key  of function key.

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.



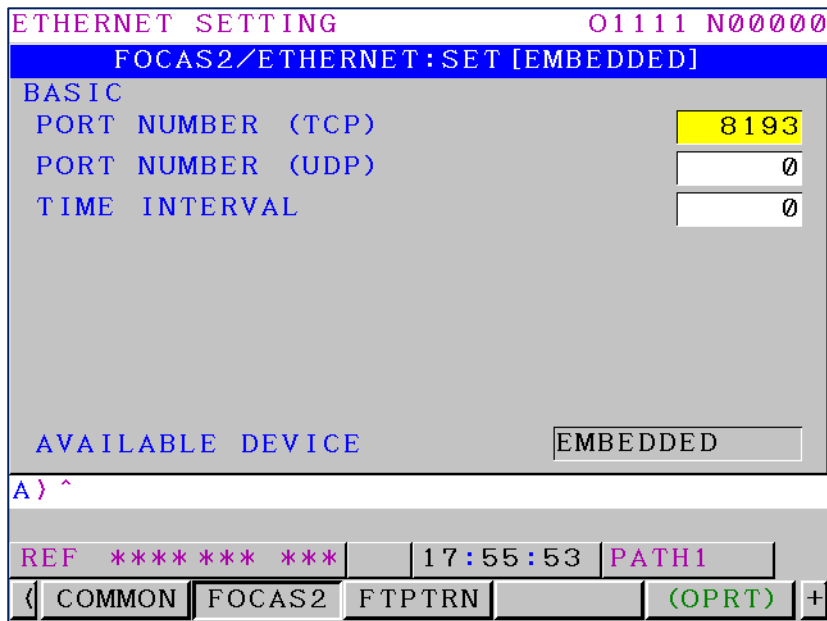
Press soft key [EMB/PCMCIA] then press [EXECUTE].



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

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

Press soft key [FOCAS2] to display following screen.



Refer to “a) For FS 30i/ 31i/ 32i/ 0i (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.





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 Wrđ pos:name	0
1954	Intra Subnet mask	255.255.255.0	9717	Host1 Wrđ pos:size	0

192.168.█.█

11:36

1 BST 2 BST

Mainte Param I/O

I/O param **Ethnet 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

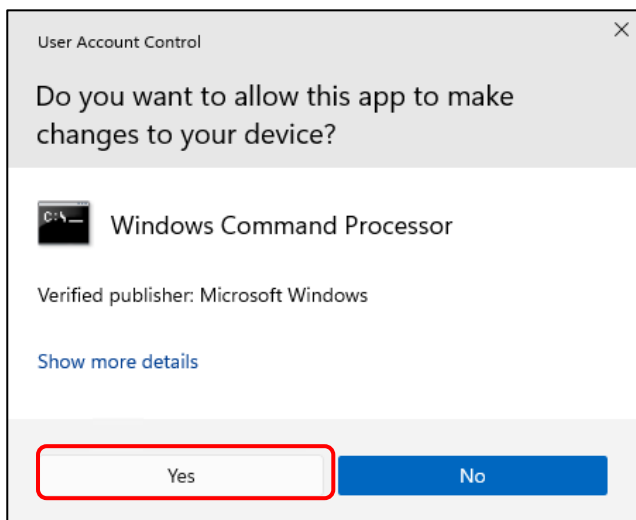


- Refer to “Chapter 6. Data backup” for detail on database backup software.

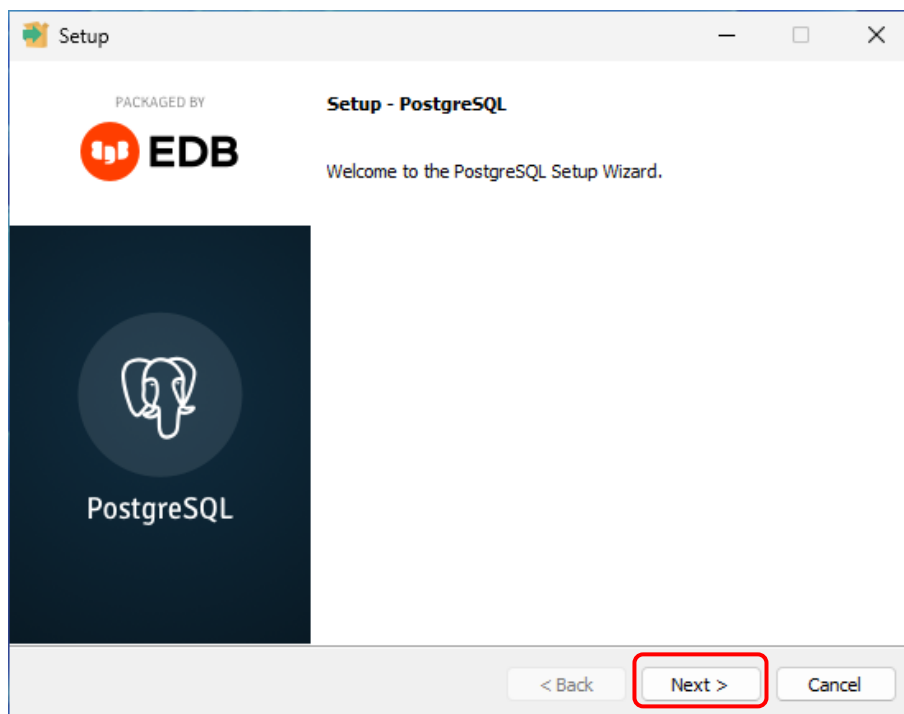
## 2-5-2 Installation of database software

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

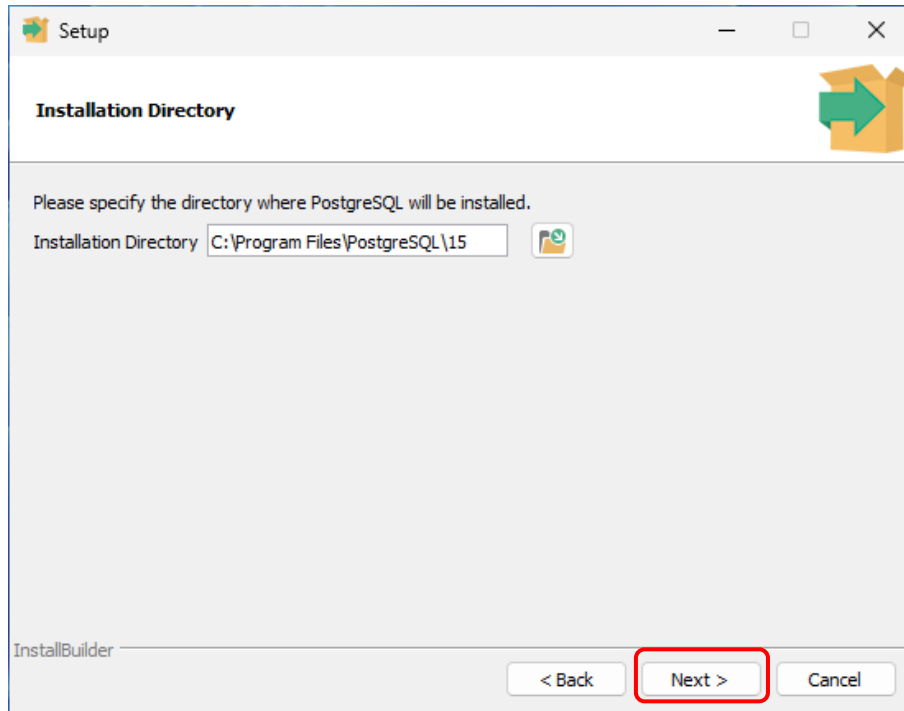
When User Account Control displays, click [Yes].



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



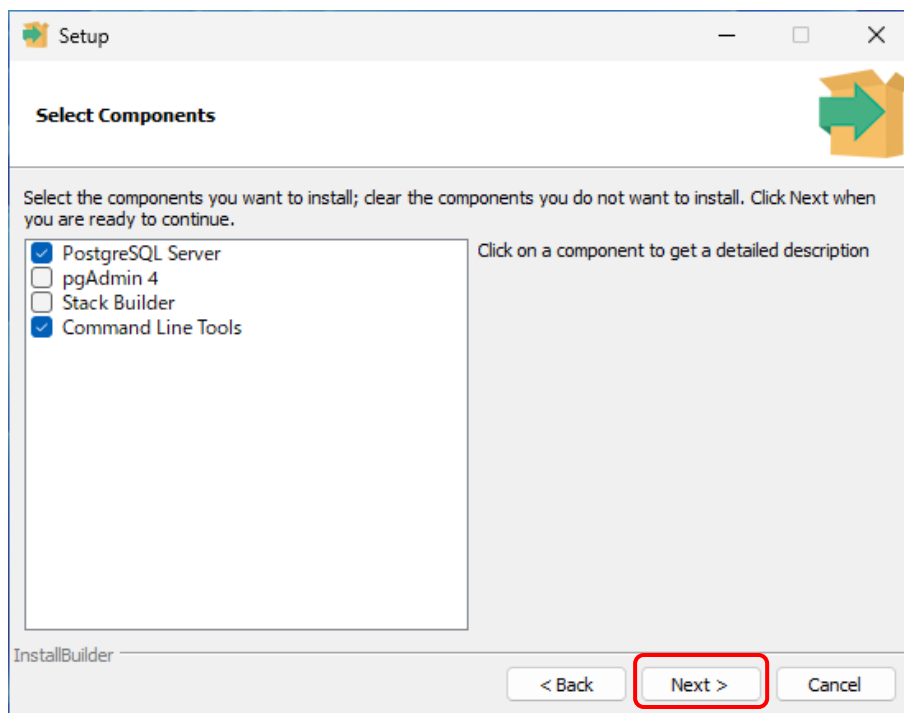
4) When following screen displays, click [Next >].



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



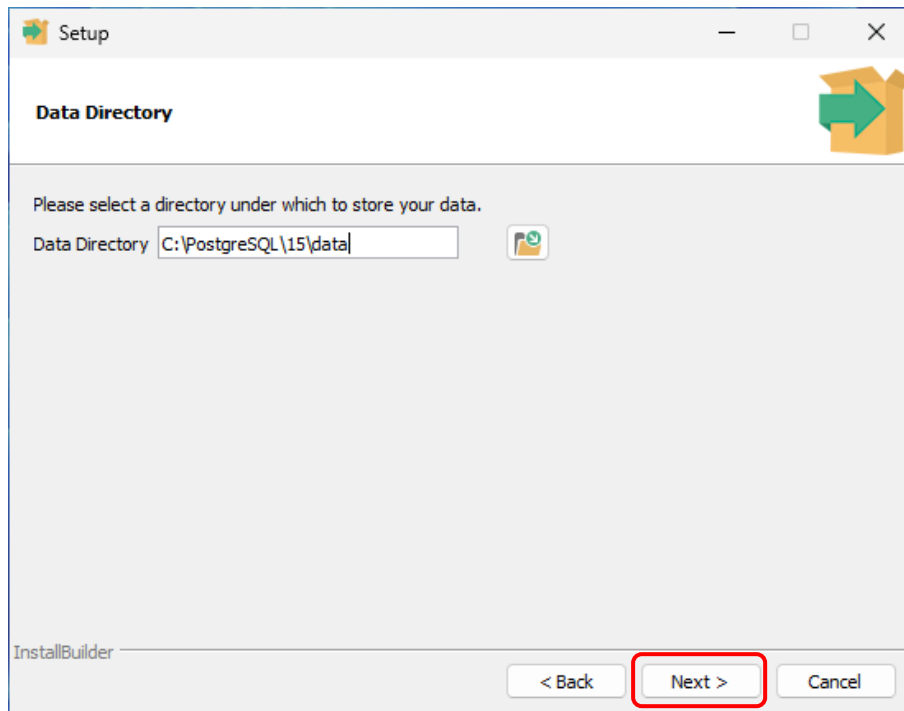
5) When following screen displays, click [Next >].



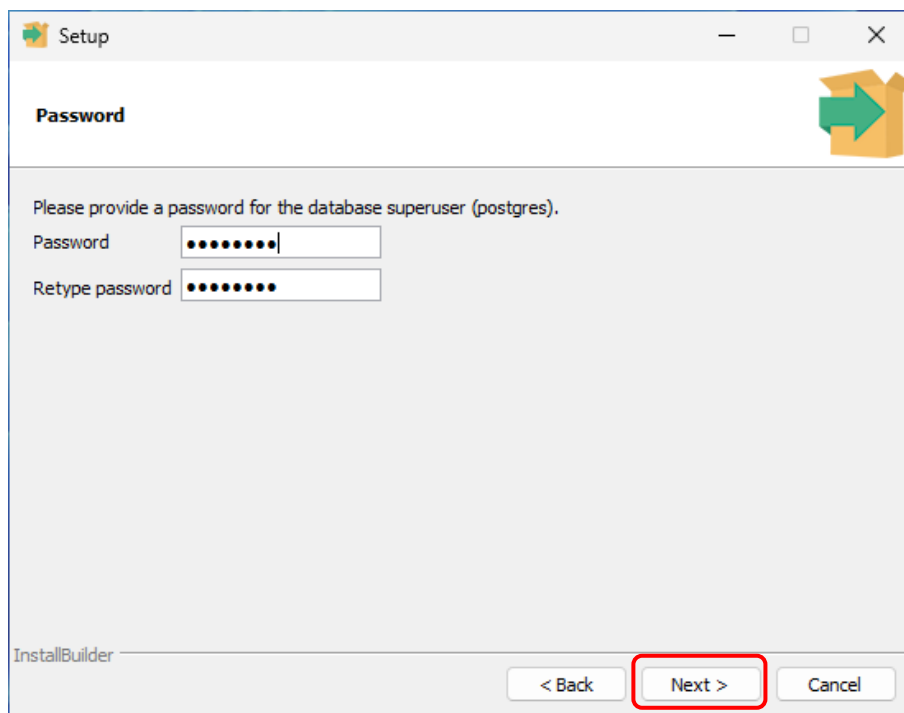
6) Data Directory to store data will be specified.

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 >].



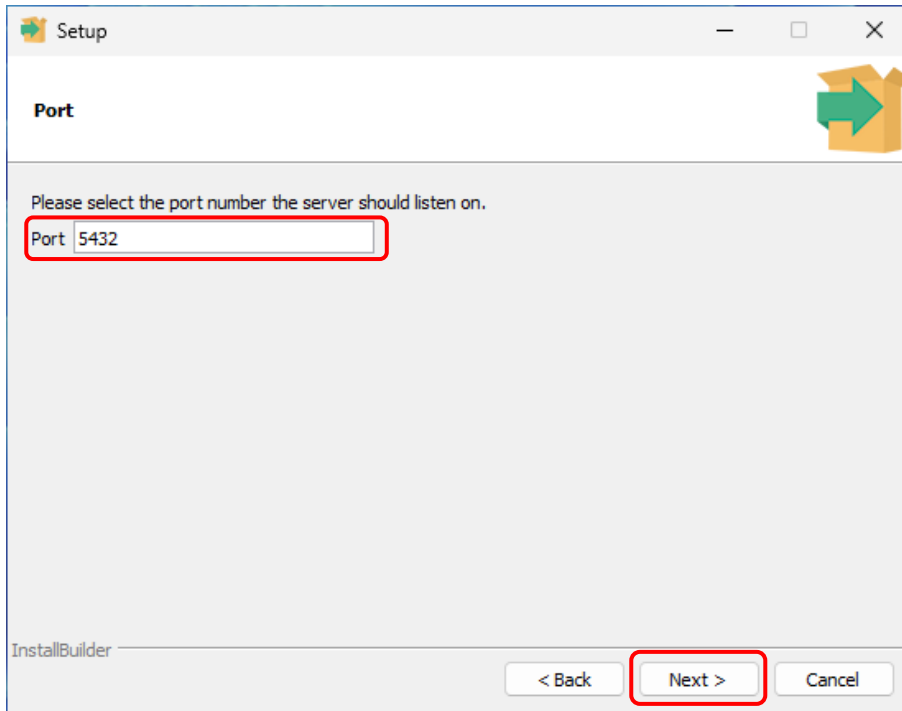
**NOTICE**



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



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

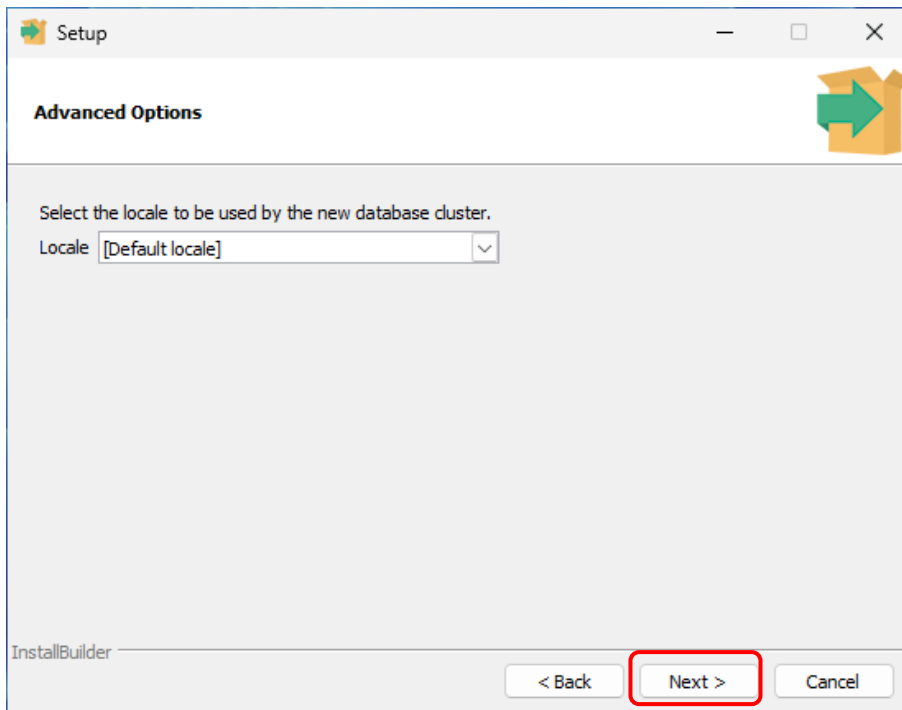


**NOTICE**

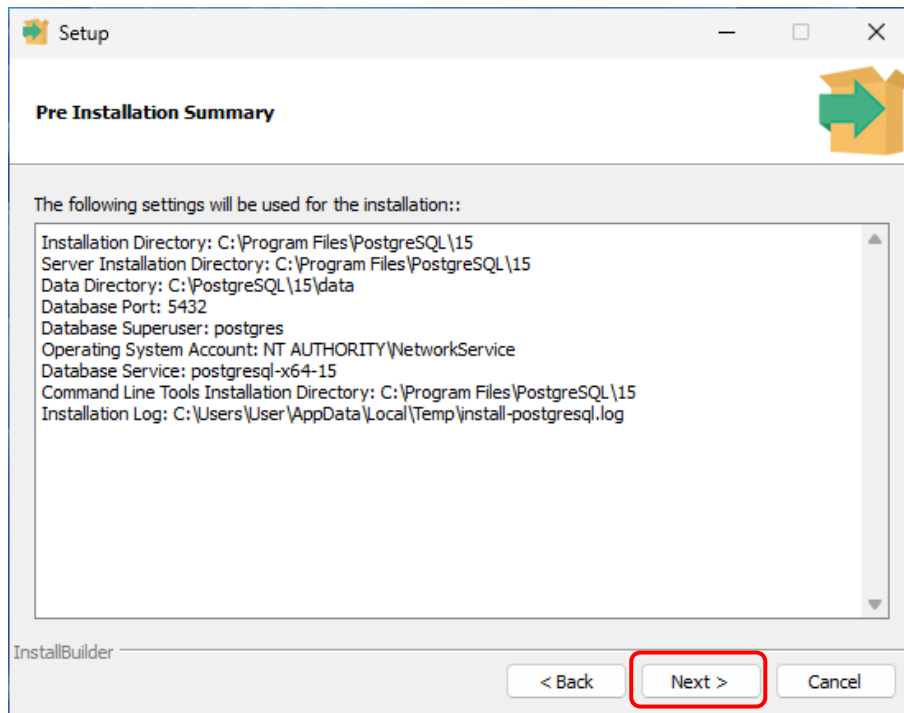


• Do not change the Port No. PostgreSQL cannot be installed correctly when Port No. is not "5432".

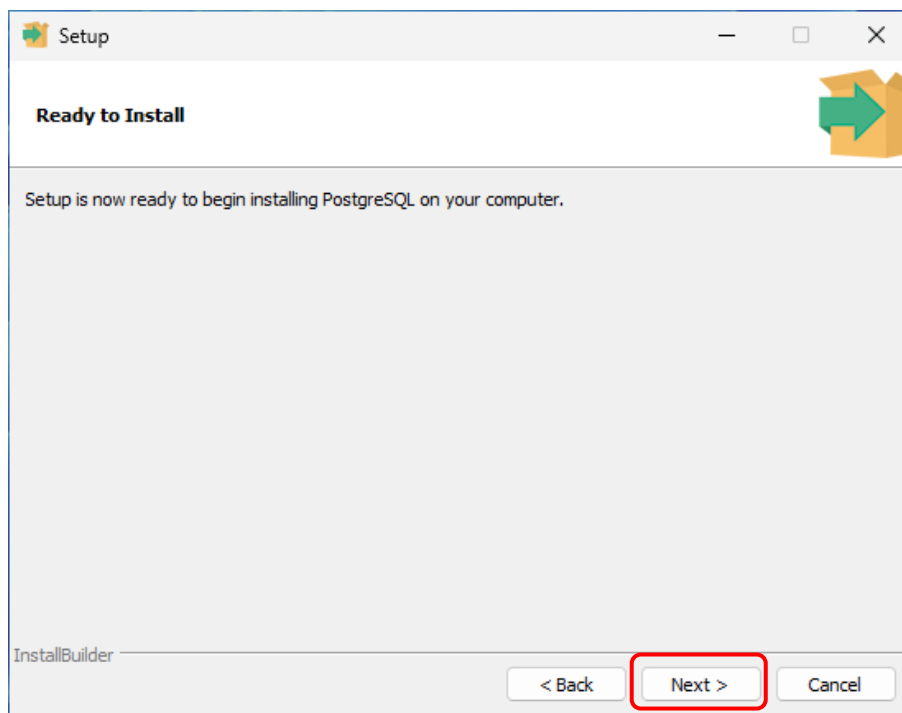
9) When following screen displays, click [Next >].



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

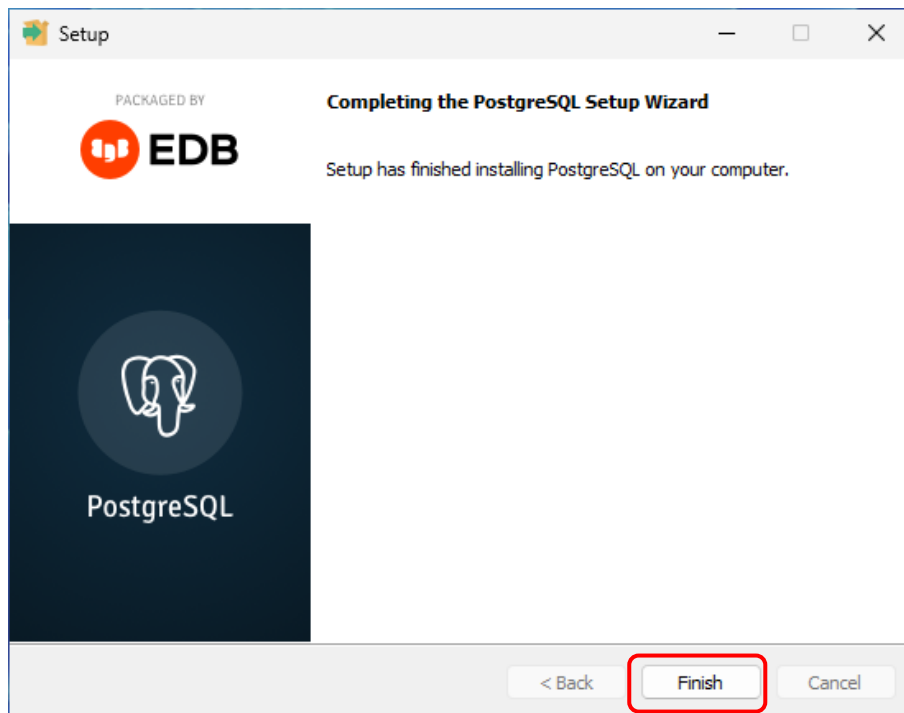


11) When following screen displays, click [Next >]. Installation starts.



12) When installation completes, following screen displays.

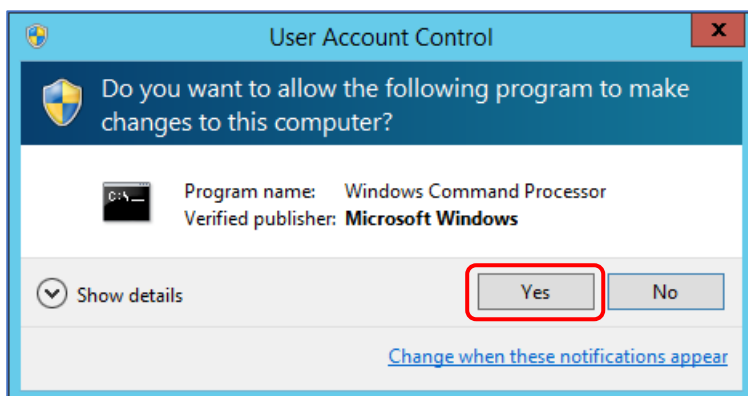
Click [Finish] to close Setup window.



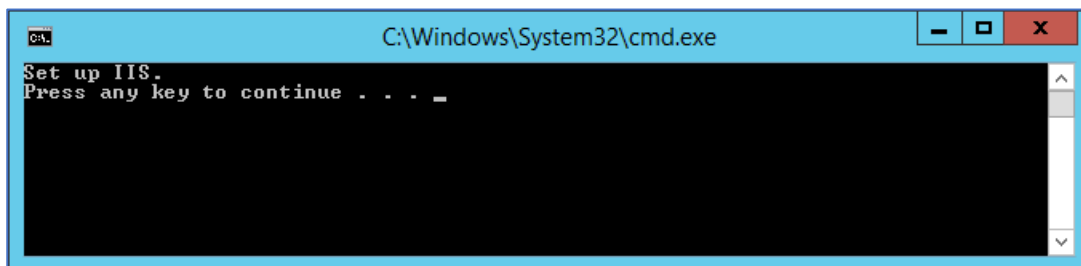
### 2-5-3 Addition of Web system function

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

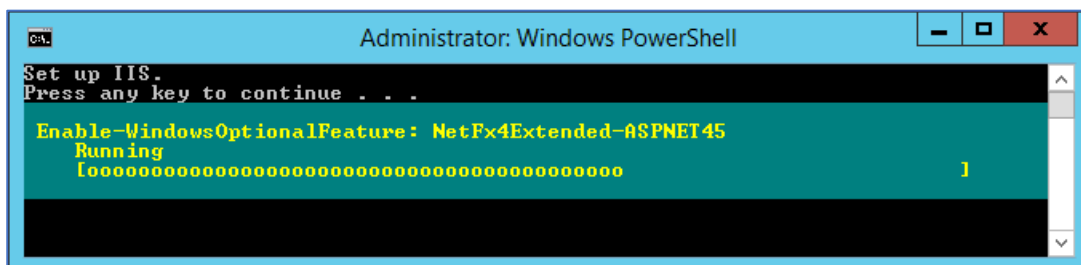
When User Account Control displays, click [Yes]



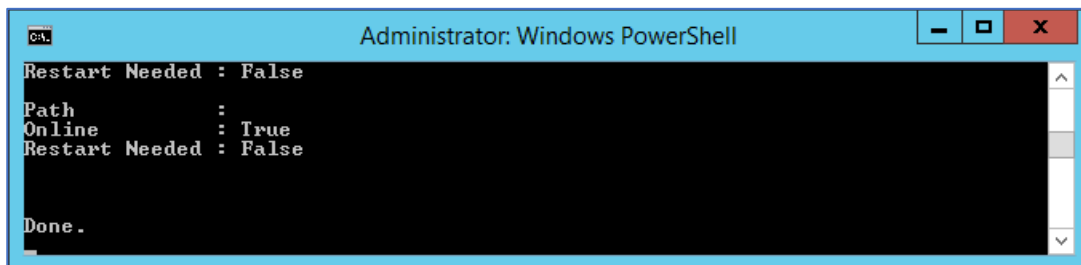
- 3) When following screen displays, press any key.



Following screen displays while setting.

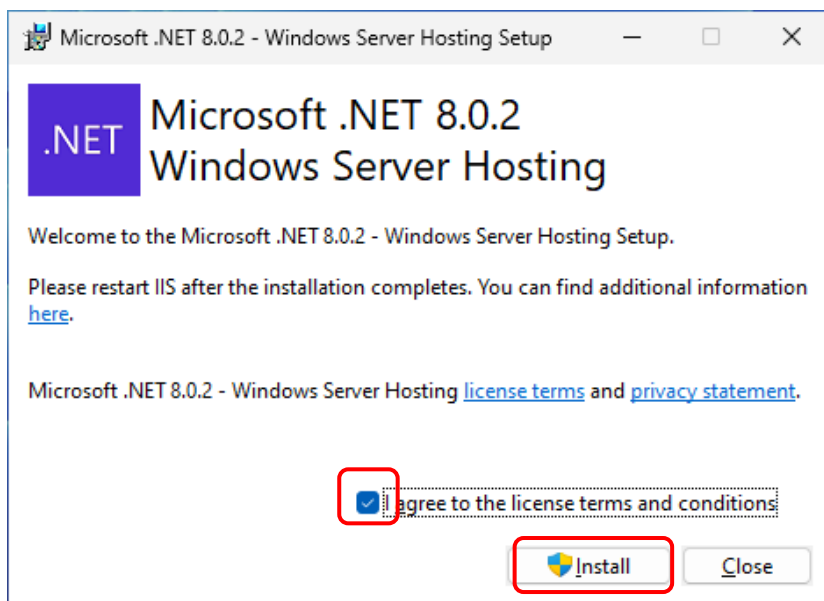


- 4) When “Done.” is displays, setting completes. Click any key to close the window.

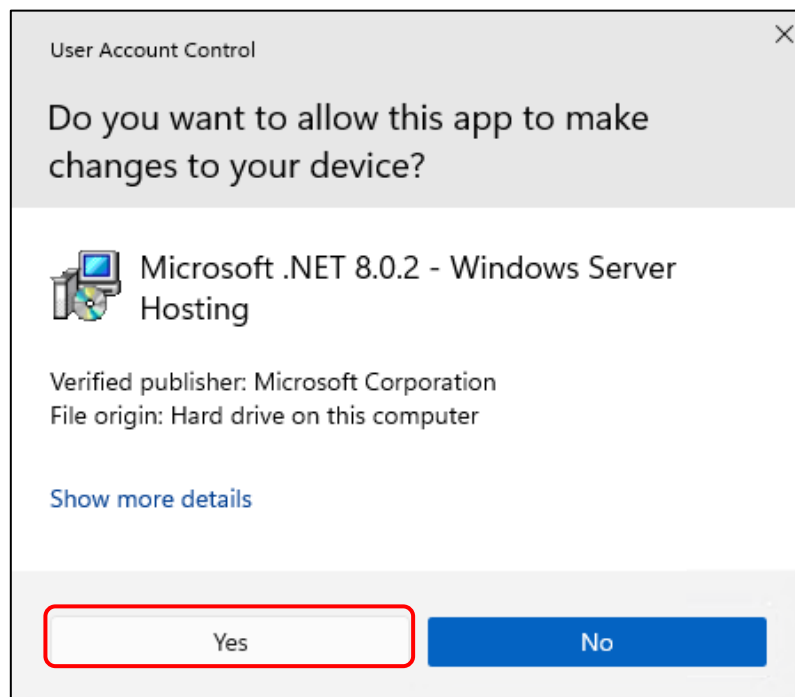


### 2-5-4 Installation of libraries software (.NET8)

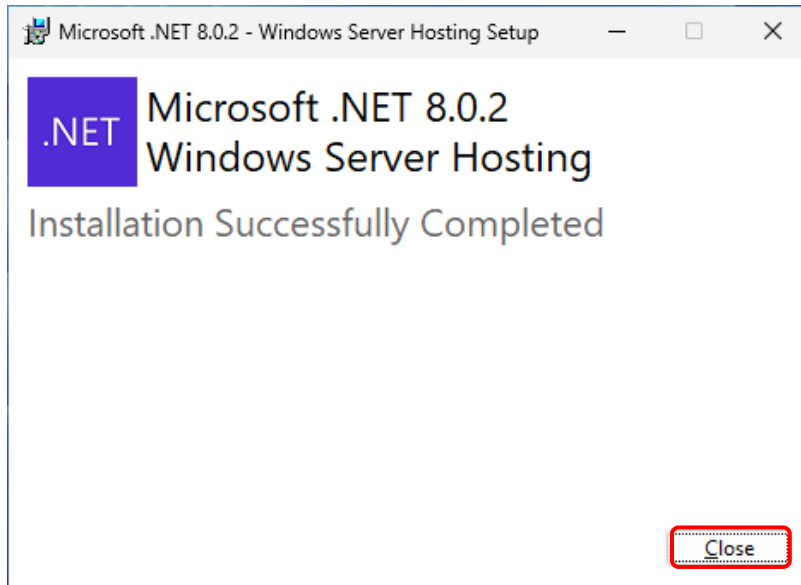
- 1) Display files of “NET 8” folder of installation disc by Windows Explorer.
- 2) Double click “dotnet-hosting-8.0.2-win.exe”.
- 3) Check “I agree to ...” and click “Install”.



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

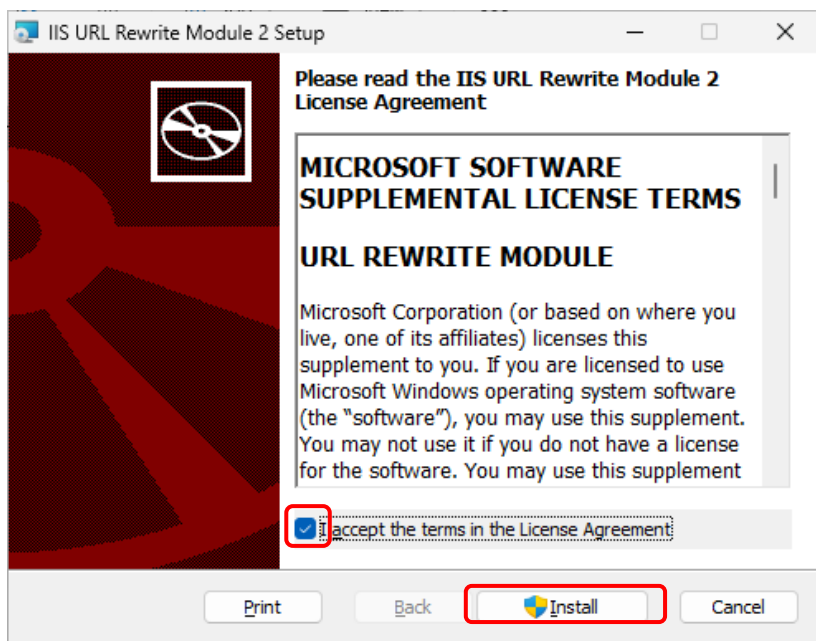


- 5) When installation completes, following screen displays.  
Click [Finish] to close Setup window.

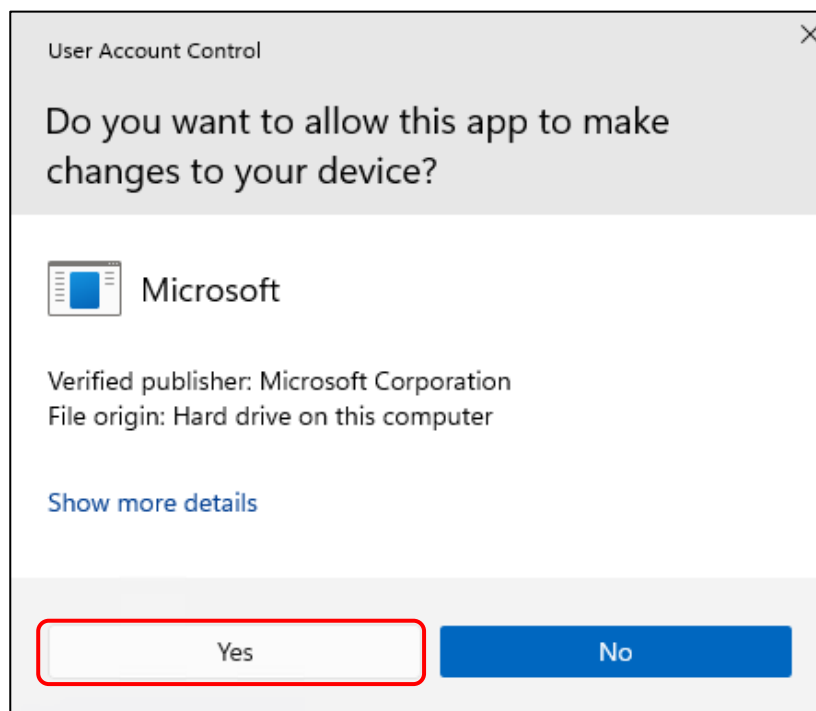


### 2-5-5 Installation of libraries software (Rewrite Module)

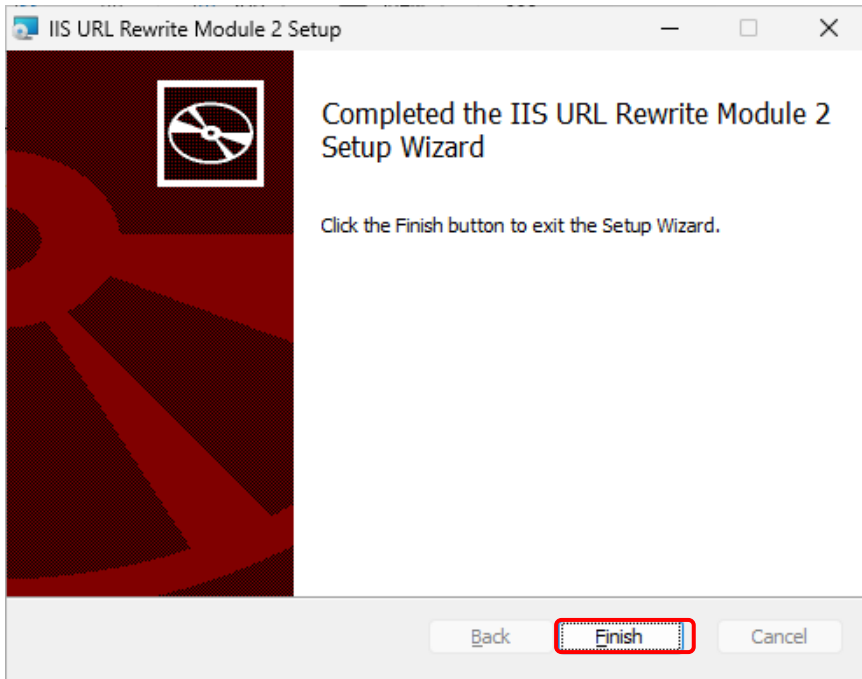
- 1) Display files of “RewriteModule” folder of installation disc by Windows Explorer.
- 2) Double click “rewrite\_amd64\_en-US.msi” in “en” folder.
- 3) Check “I accept the terms ...” and click “Install”.



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



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

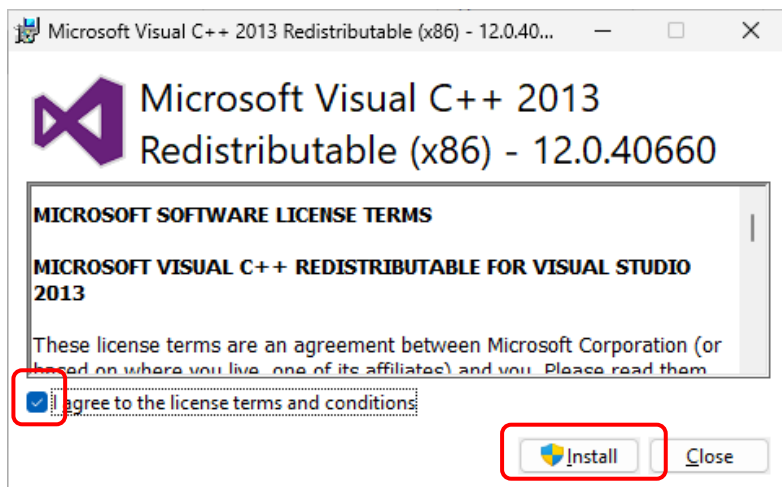




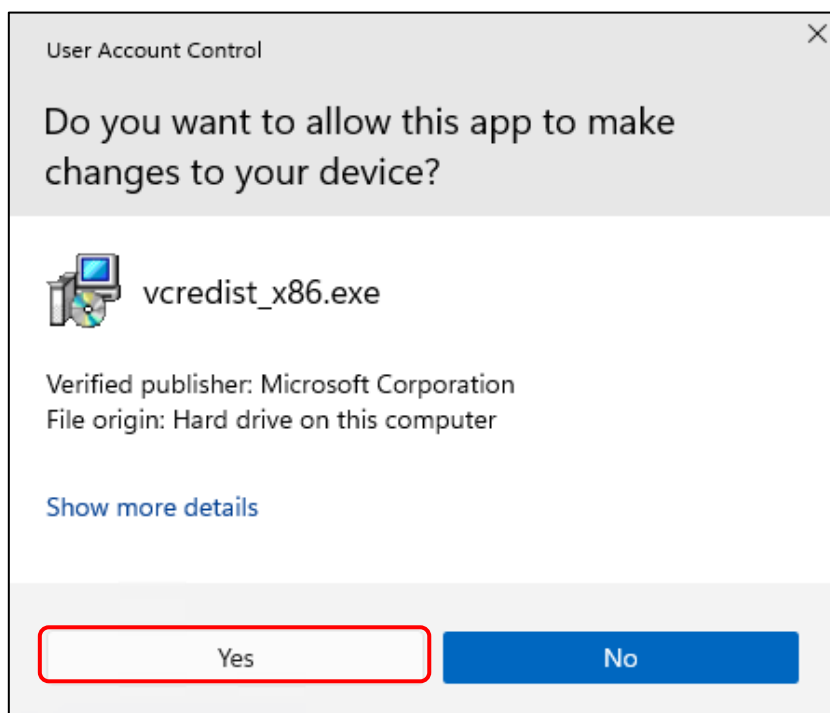
### 2-5-6 Installation of libraries software (VC++2013 Runtime)

- 1) Display files of “VC++2013” folder of installation disc by Windows Explorer.
- 2) Double click “vcredist\_x86.exe” in “en” folder.

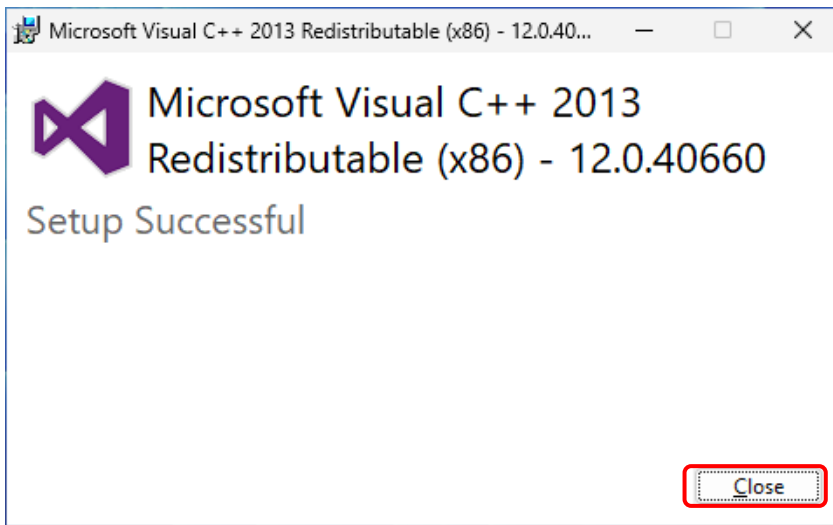
Check “I agree to ...” and click “Install”.



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



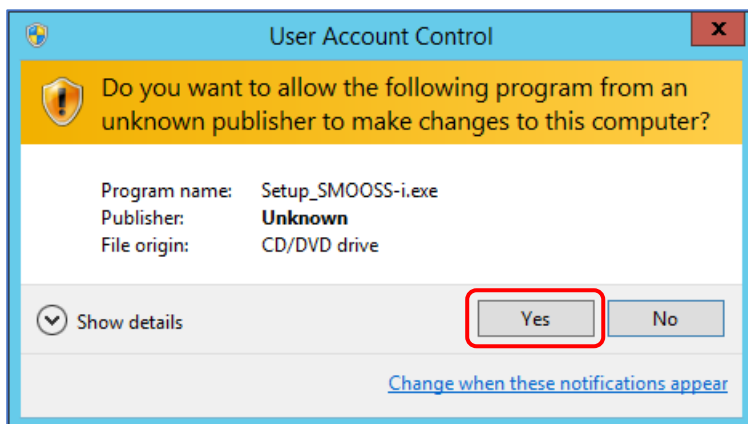
- 6) When installation completes, following screen displays.  
Click [Close] to close Setup window.



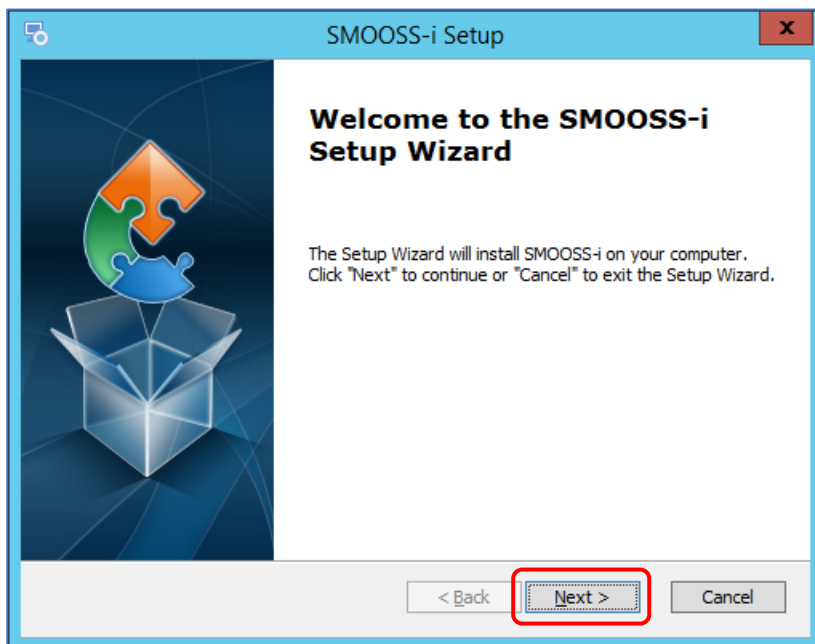
### 2-5-7 Installation of Web application software

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

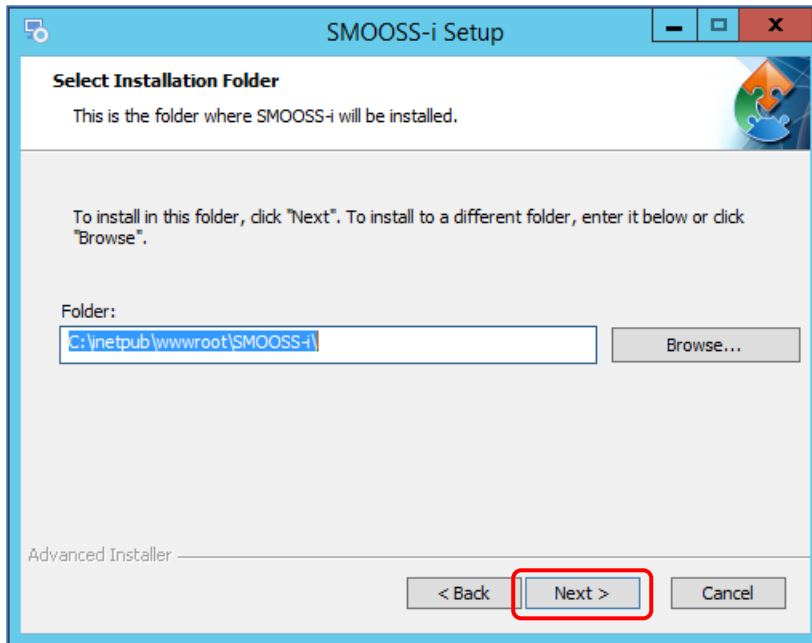
When User Account Control displays, click [Yes]



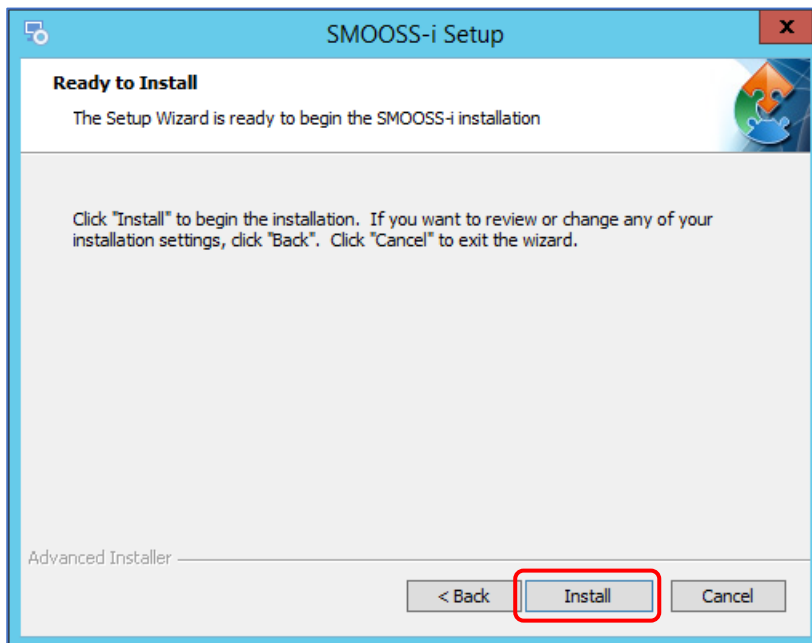
- 3) When following screen displays, click [Next >].



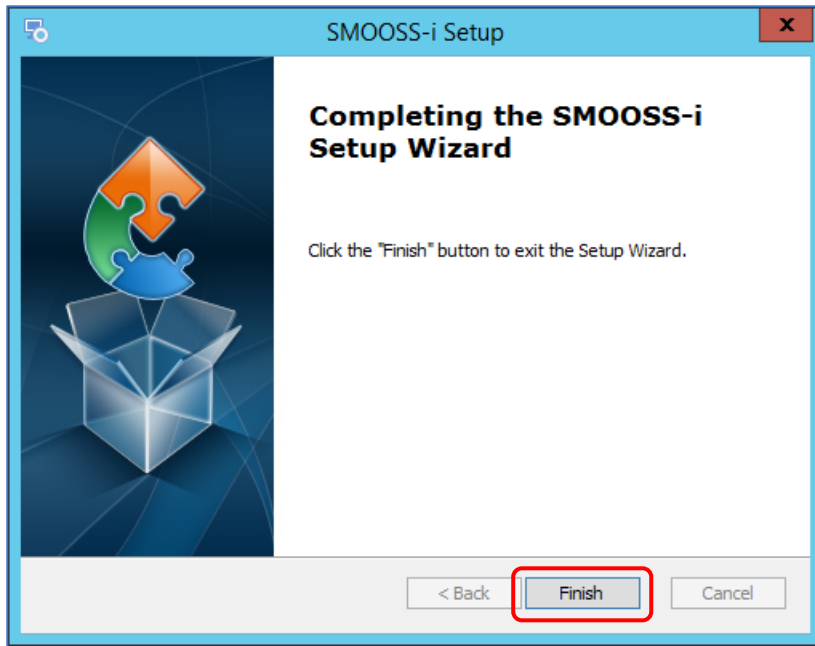
4) Installation Directory for the “SMOOSS-i” will be specified. Click [Next >].



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



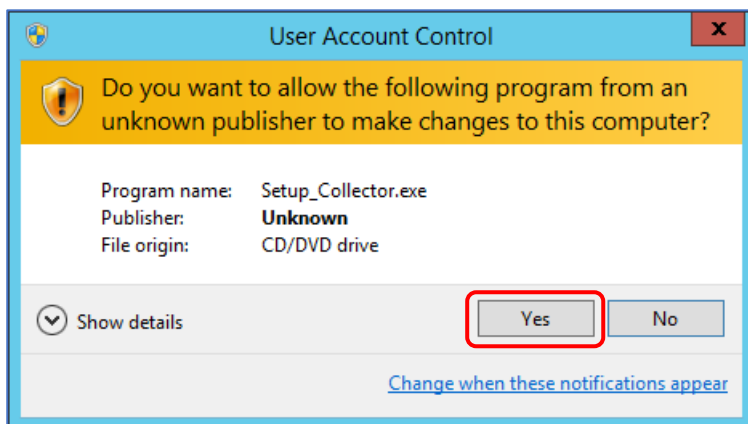
6) When installation completes, following screen displays. Click [Finish] to close Setup window.



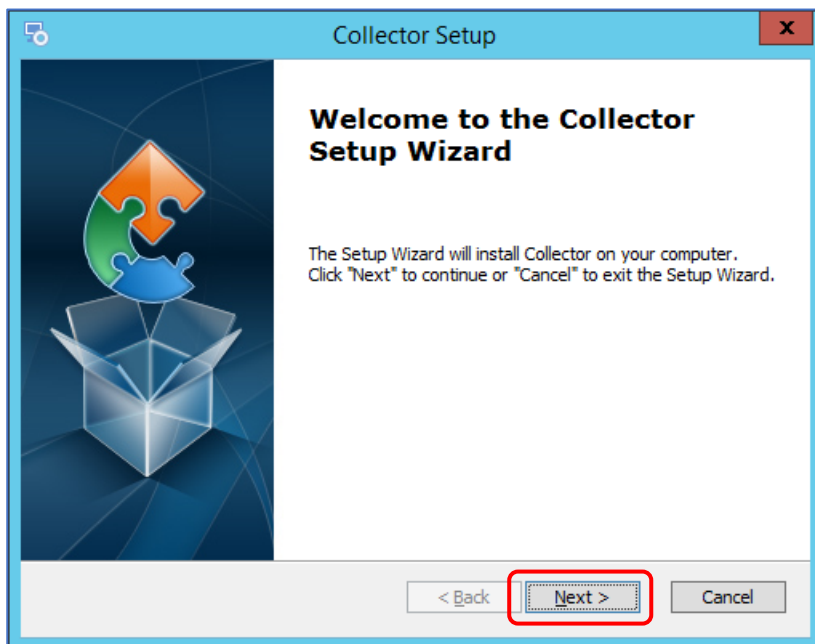
### 2-5-8 Installation of information collect software

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

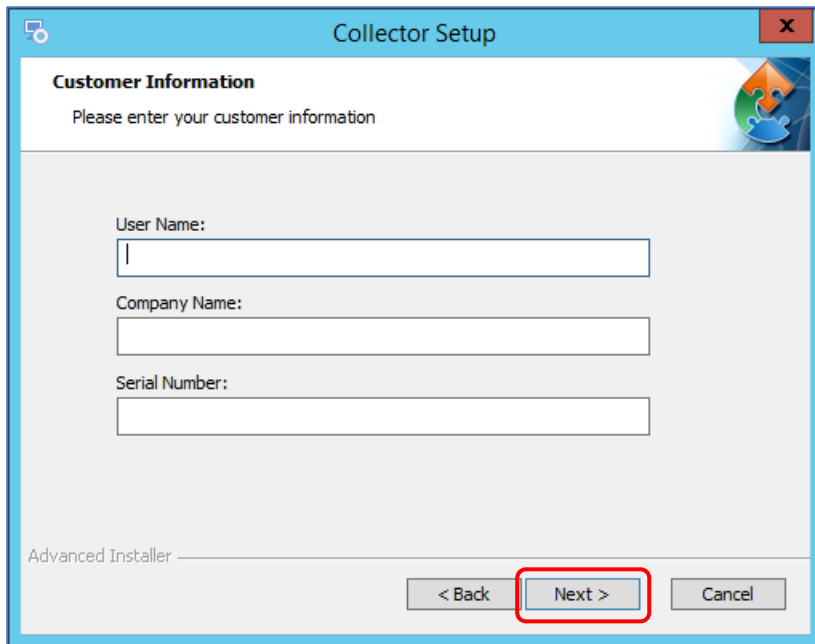
When User Account Control displays, click [Yes]



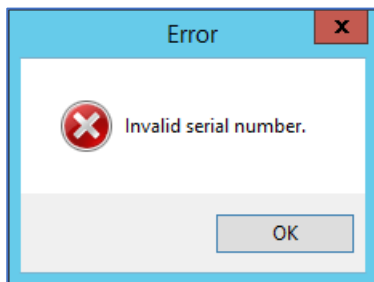
- 3) When following screen displays, click [Next >].



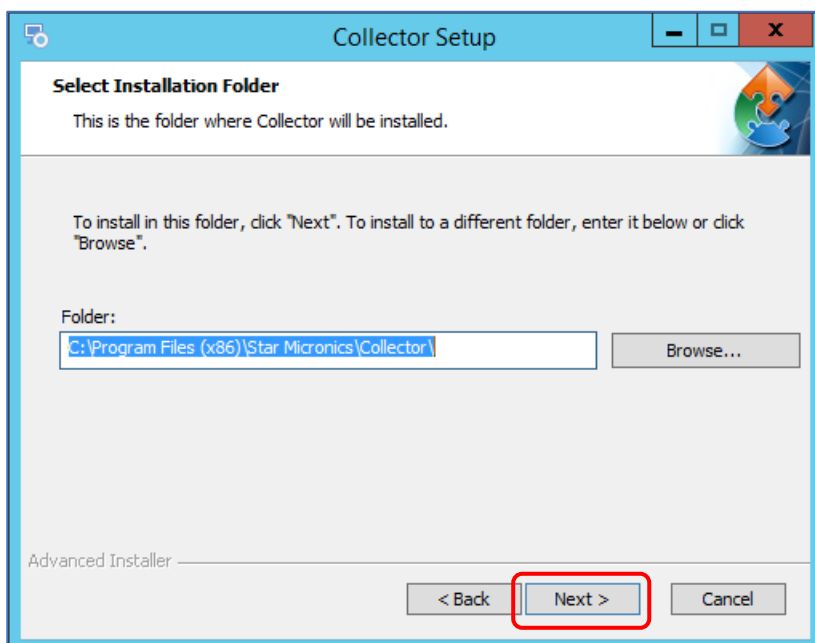
- 4) Enter User Name, Company Name and Serial Number. There is no problem even if User Name and Company Name is blank. Click [Next >] after entering.



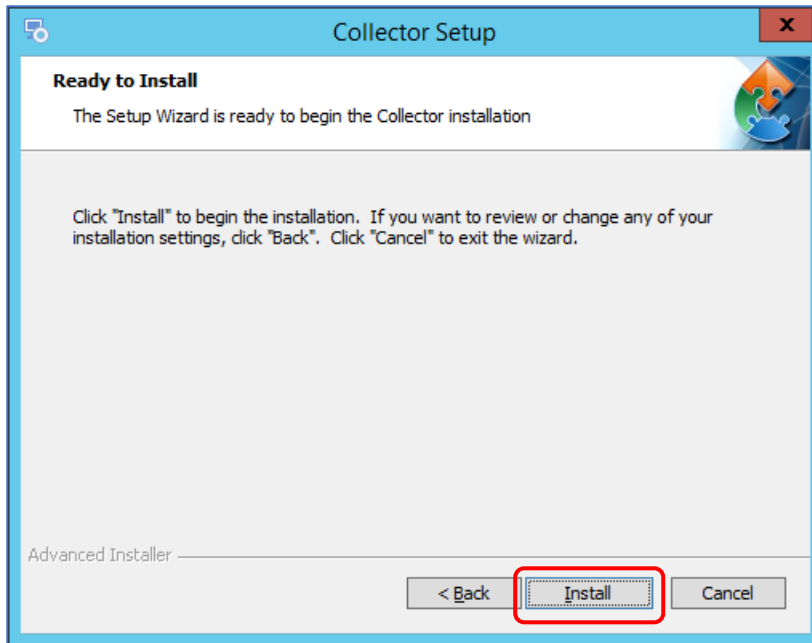
If wrong number is entered to serial number, following screen displays.



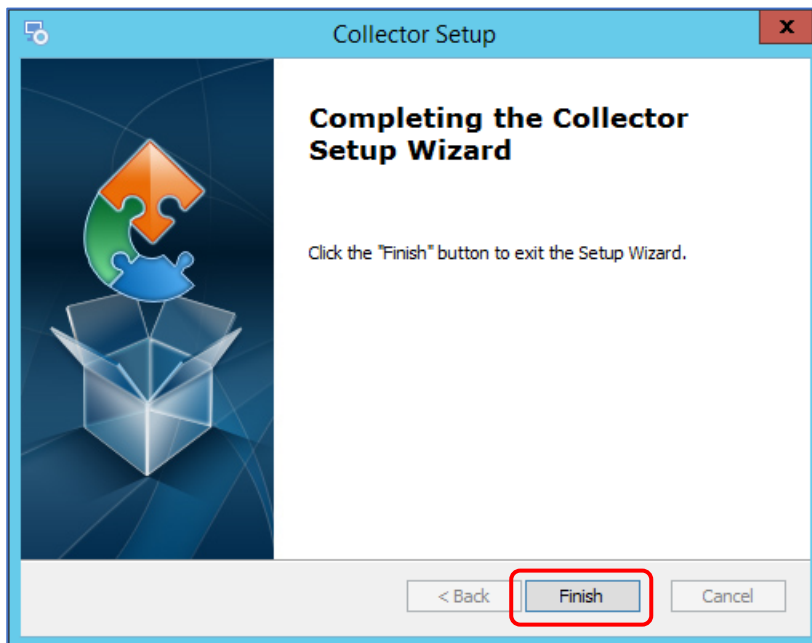
- 5) Installation Directory for the “Collector” will be specified. Click [Next >].



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



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





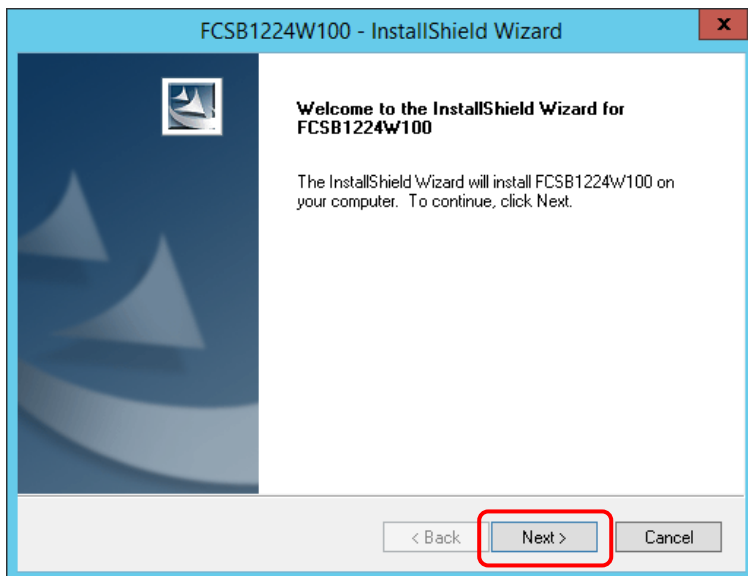
## 2-5-9 Installation of MITSUBISHI CNC communication software

### NOTICE

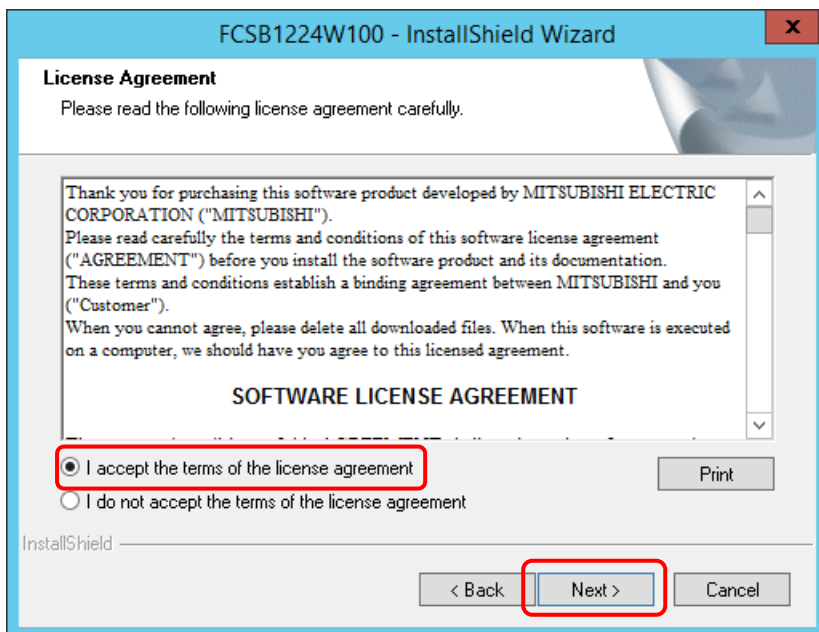


- Install the software only when communicating with MITSUBISHI CNC.

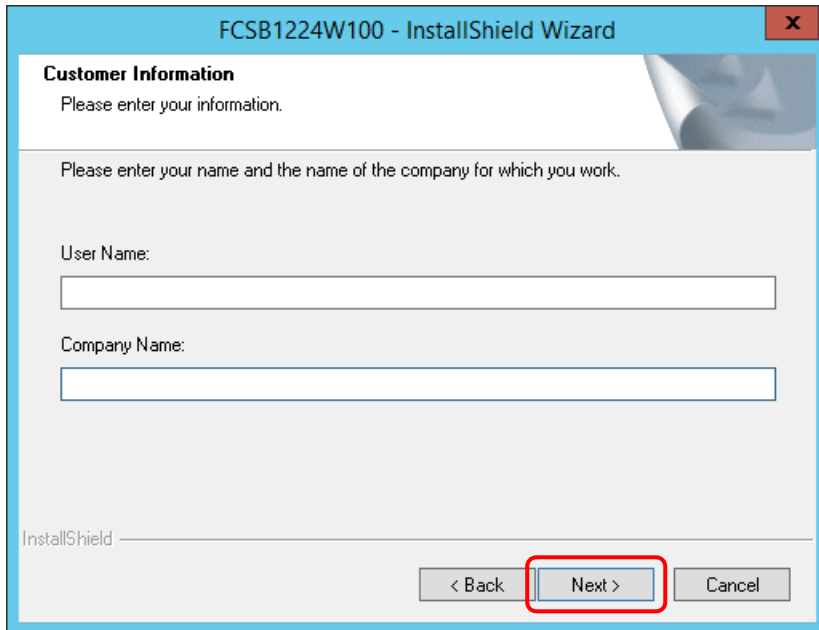
- 1) Insert installation disc of SMOOSS-i into optical drive.
- 2) Display files of “FCSB1224W100” folder of installation disc by Windows Explorer.
- 3) Double click “runtime-setup.exe”.
- 4) When following screen displays, click [Next >].



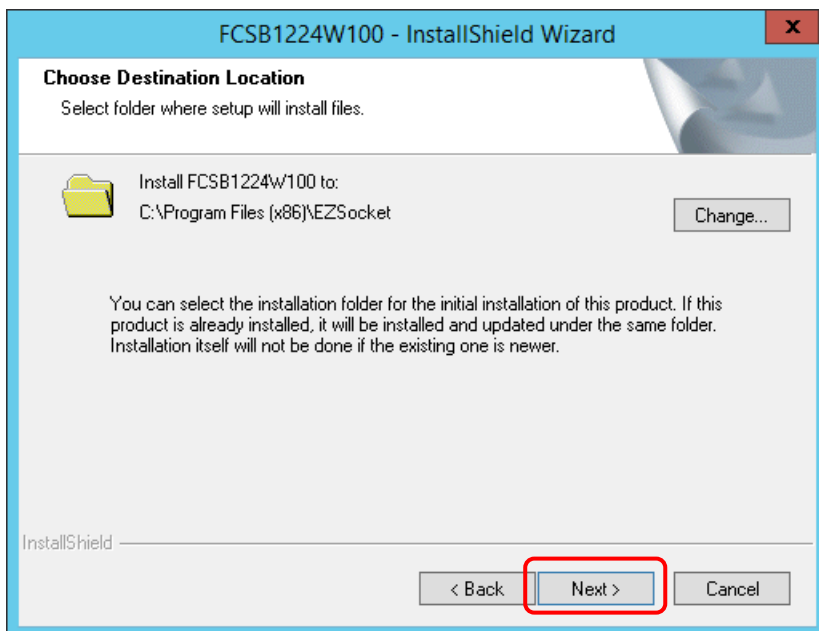
- 5) When following screen displays, after reading license agreement carefully, select [I accept the terms of the license agreement] and click [Next >].



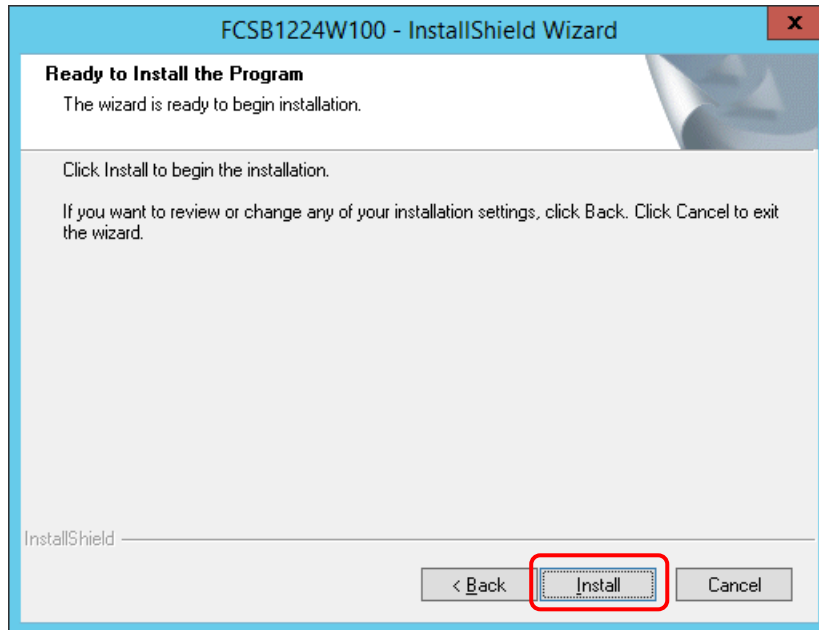
6) Enter User Name and Company Name. Click [Next >] after entering.



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

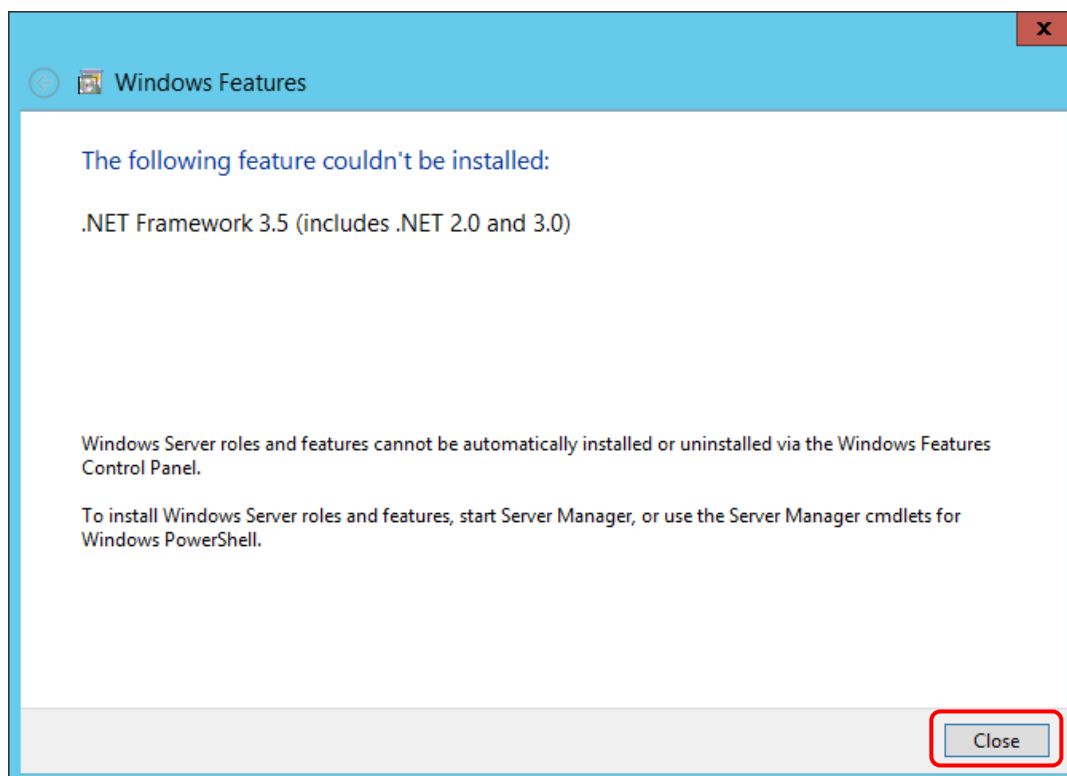


8) When following screen displays, click [Install].



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

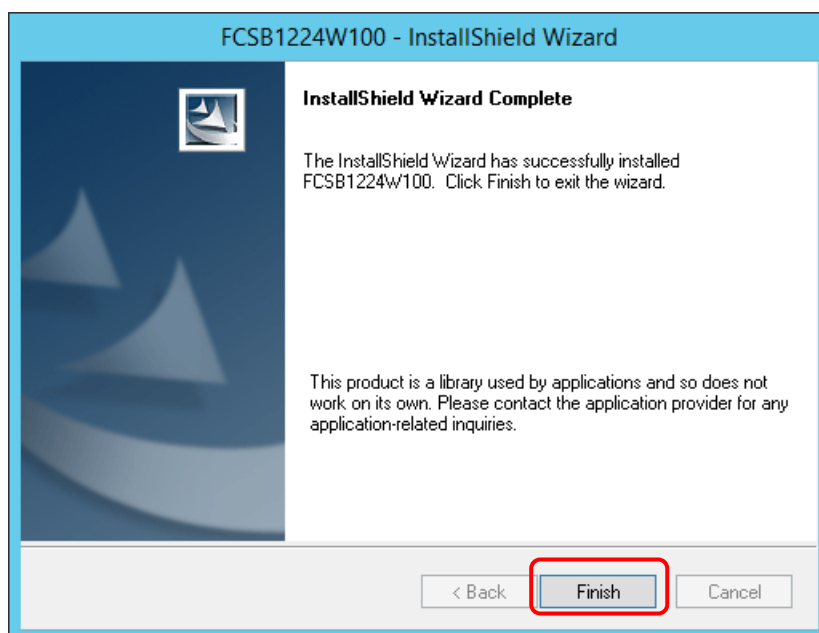
**NOTE** ■ There is no need to install .NET Framework 3.5 to operate the software.



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.

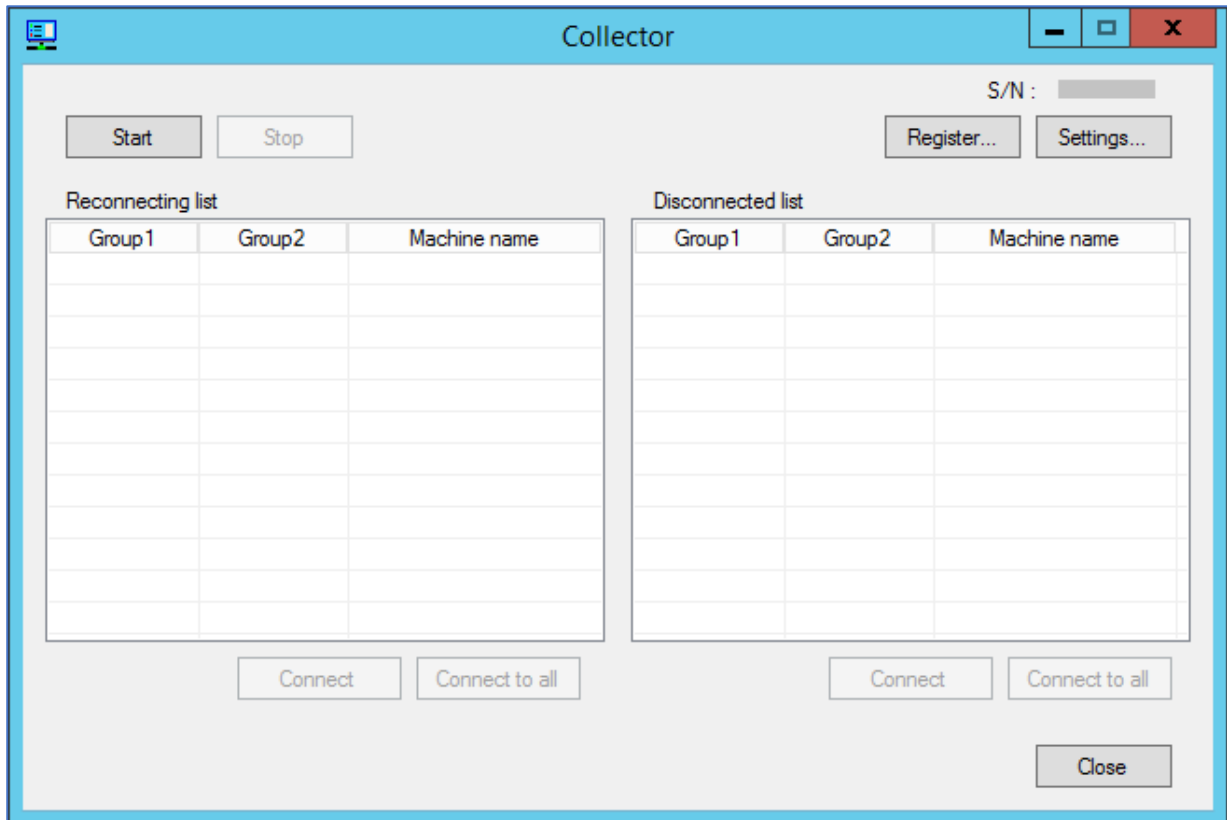
For Windows 11, select the arrow net to [All Apps].

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.

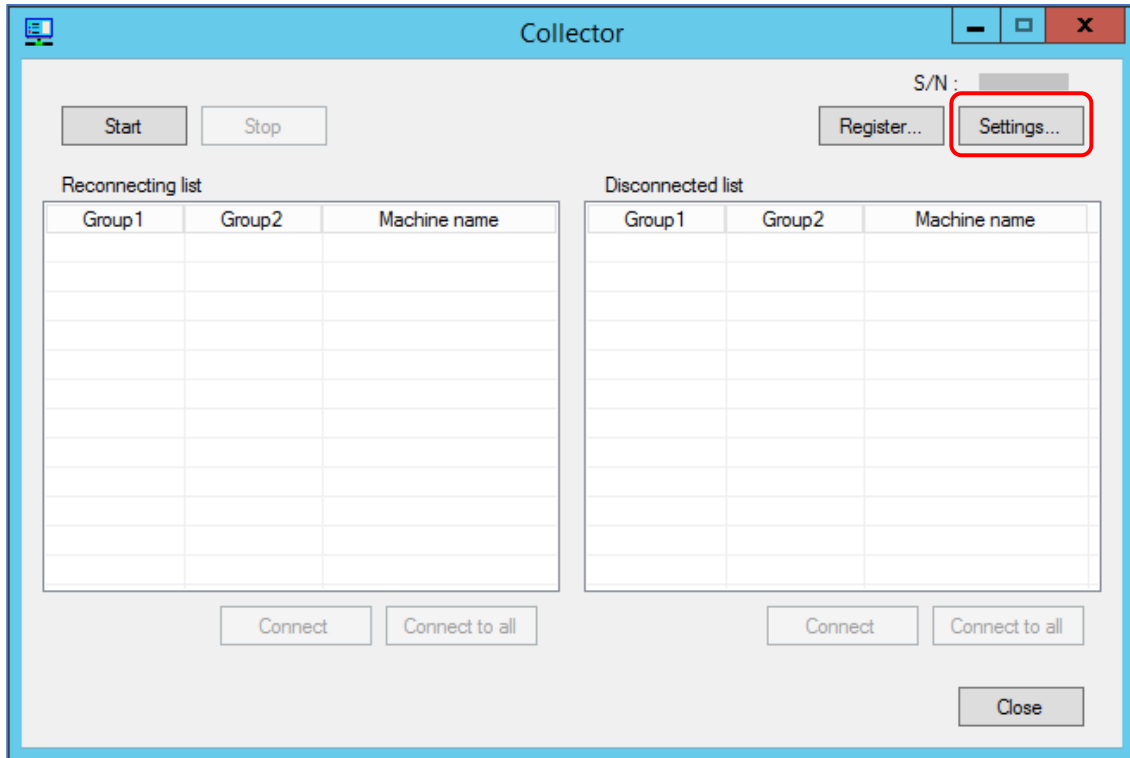
### 3-3 License Registration

**NOTICE**

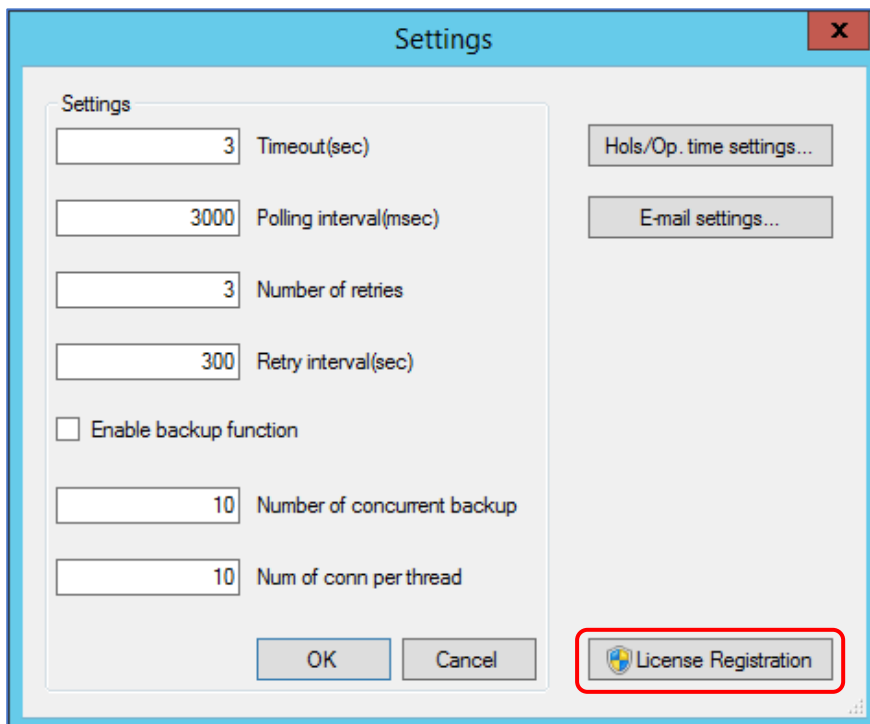


- You can use SMOOSS-i on the server without password for 90 days after installation.

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

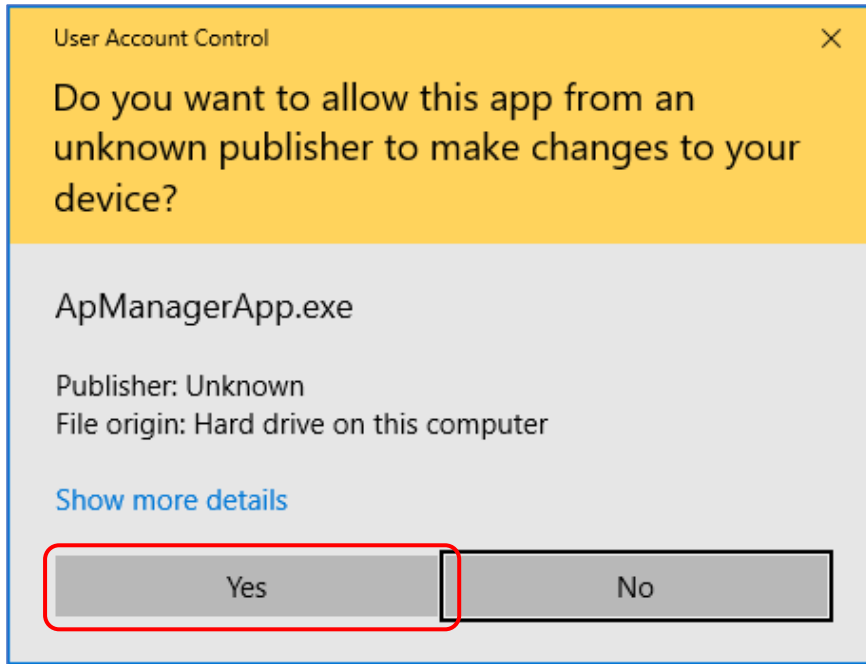


When following screen displays, click [License Registration].

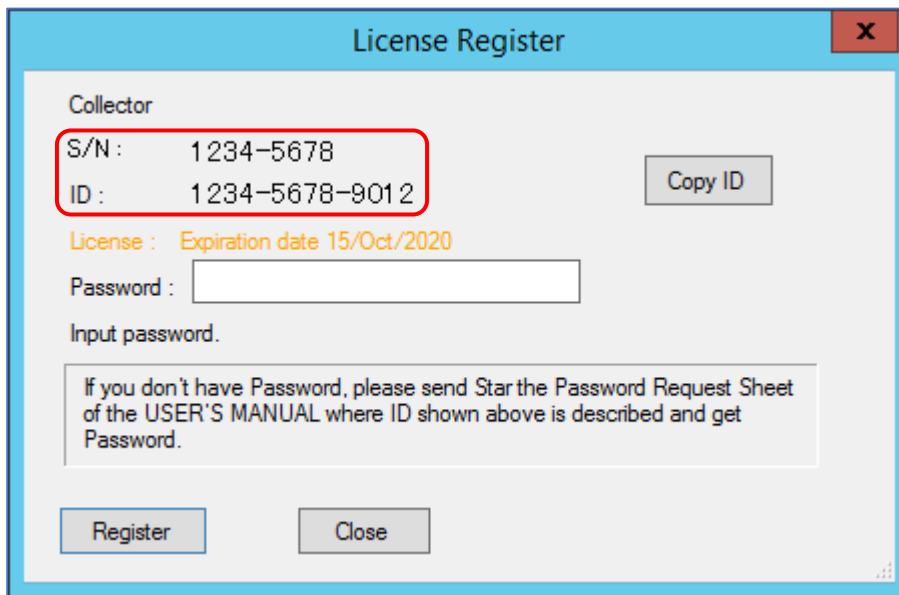




When User Account Control displays, click [Yes]



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**

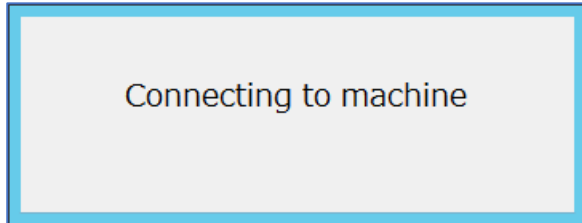


- Please send "Password Request Sheet" to STAR MICRONICS and acquire the password. S/N and ID code shown in the screen above are necessary to complete the "Password Request Sheet". "Password Request Sheet" can be found on page iv of this manual.
- You need to acquire a new password for each server.
- 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.

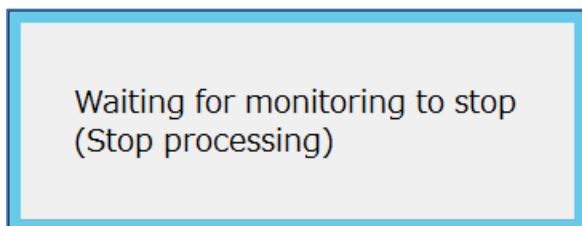
<For version 2.0.0 and later>

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

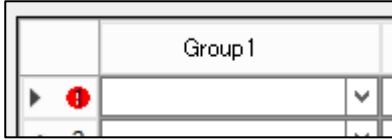
Click [Register...] button to display following screen.

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.


<b>NOTICE</b> 	• 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.

<b>NOTE</b> 	• 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.

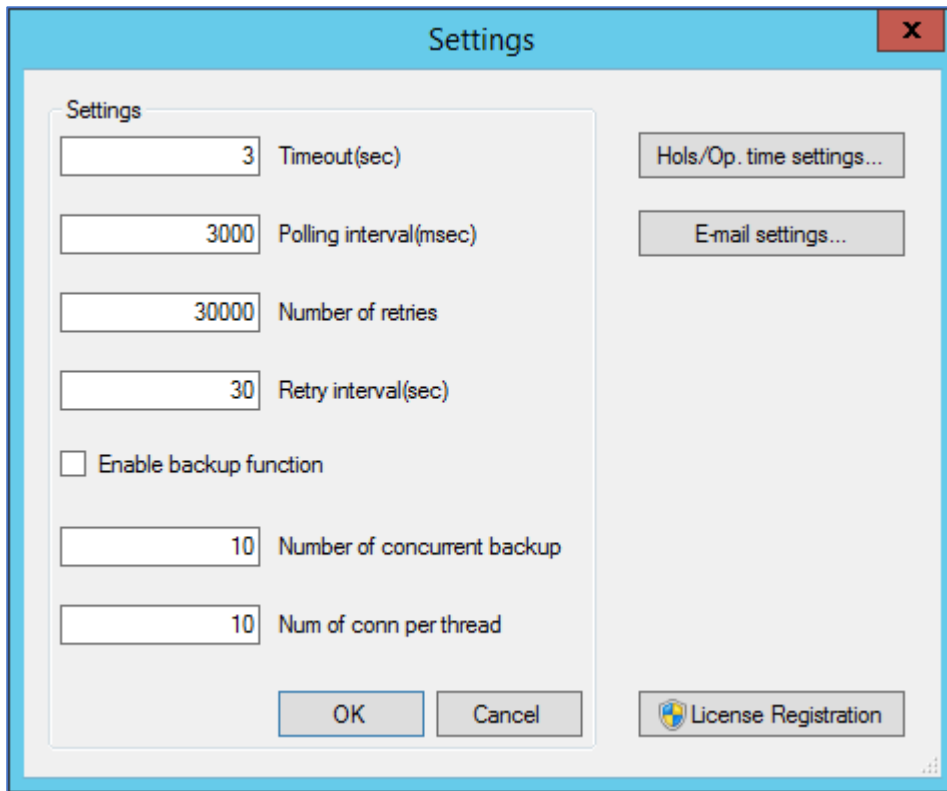
When test completes, results displays in each field.

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.



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  Create

Target data  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

Operation time

Creation data  Create

Target data  Delete

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

Close

#### a) Holidays data

##### •Creating

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

Holidays

Creation data  Create

Target data  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

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.

The screenshot shows the 'Holidays' management interface. At the top, there is a 'Creation data' input field and a 'Create' button. Below it, the 'Target data' dropdown menu is set to 'holidays' and is circled in red. To the right of the dropdown is a 'Delete' button. The main area features a calendar for August 2018. The date '26' is highlighted with a dashed border, and a red arrow points to it with the label 'Click to select'. To the right of the calendar is a list titled 'Aug.2018(4)' containing the dates: 8/05/2018, 8/12/2018, 8/19/2018, and 8/26/2018. A red arrow points to this list with the label 'Setting date'.

**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.

This screenshot is similar to the previous one but shows the result of editing. The 'Target data' field remains 'holidays'. The calendar still shows the 26th selected. However, the 'Setting date' list on the right is now titled 'Aug.2018(3)' and contains only the dates: 8/05/2018, 8/12/2018, and 8/19/2018. The date 8/26/2018 has been removed from the list, indicating it was deleted because it was already present.

**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

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

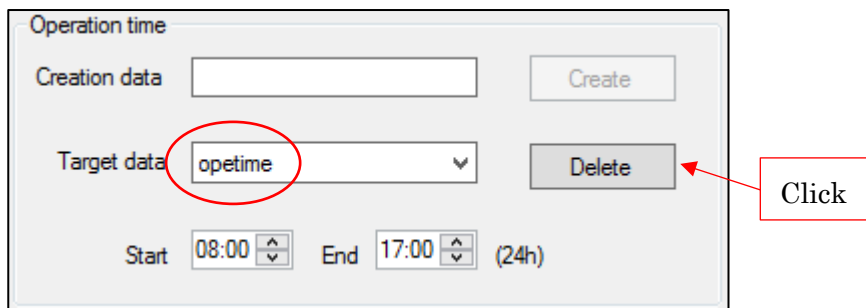


- Operation to preserve is unnecessary.

• Data deleting

NOTICE  Deleted data cannot be restored.

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



Operation time

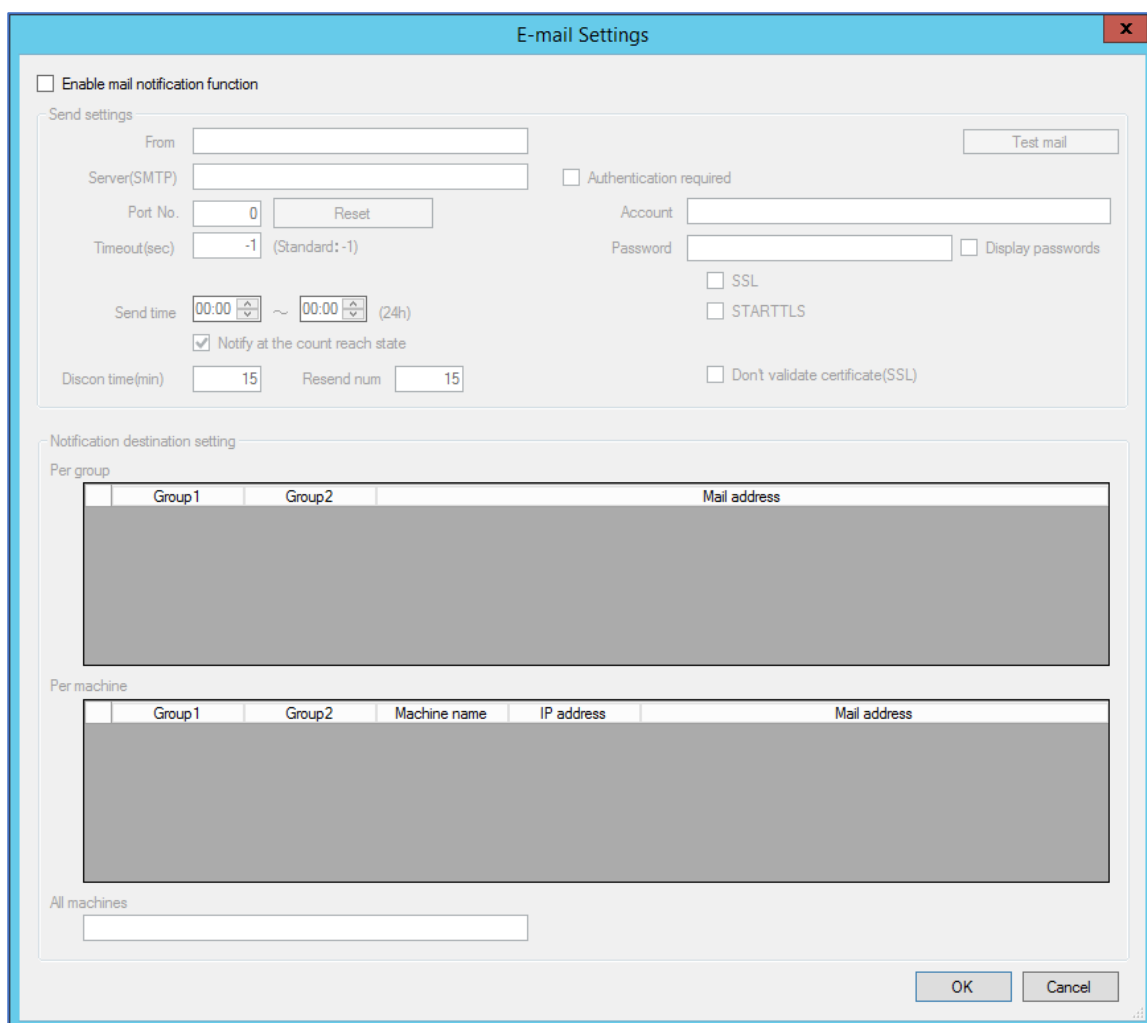
Creation data  Create

Target data **opetime** Delete

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

### 3-8-2 Setting of E-mail notification

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



E-mail Settings

Enable mail notification function

Send settings

From  Test mail

Server(SMTP)  Authentication required

Port No.  0 Reset Account

Timeout(sec)  -1 (Standard: -1) Password  Display passwords

Send time  00:00 ~  00:00 (24h)  SSL

Notify at the count reach state  STARTTLS

Discon time(min)  15 Resend num  15  Don't validate certificate(SSL)

Notification destination setting

Per group

Group1	Group2	Mail address

Per machine

Group1	Group2	Machine name	IP address	Mail address

All machines

OK Cancel

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.



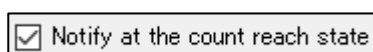
Setting such as starts before 0 o'clock and ends after 0 o'clock is also available.

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.

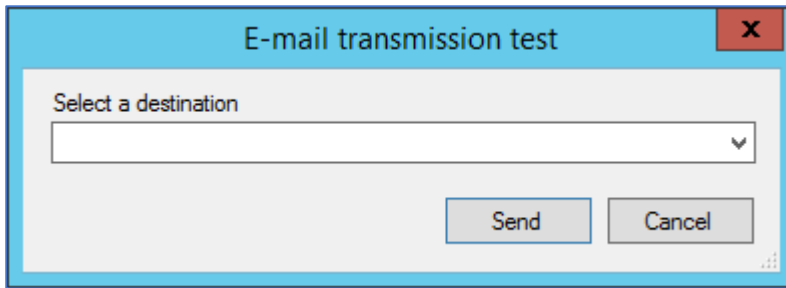
## b) Notification destination setting

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 ",".

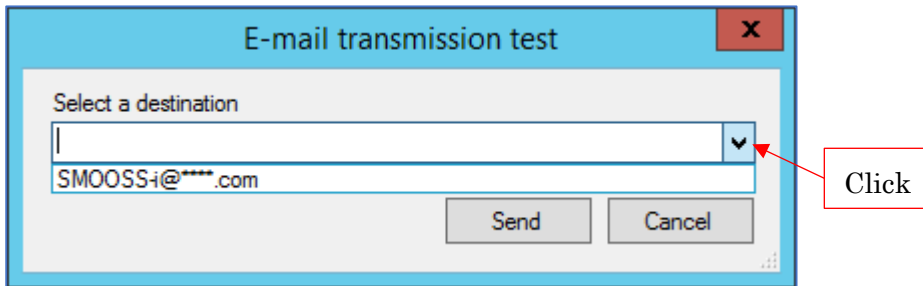
To send notification for all machine monitored, enter the address in "All machines".

**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.

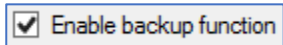


Click [Send] button to send test mail.

### 3-9 CNC Data back up

#### 3-9-1 Displaying the button

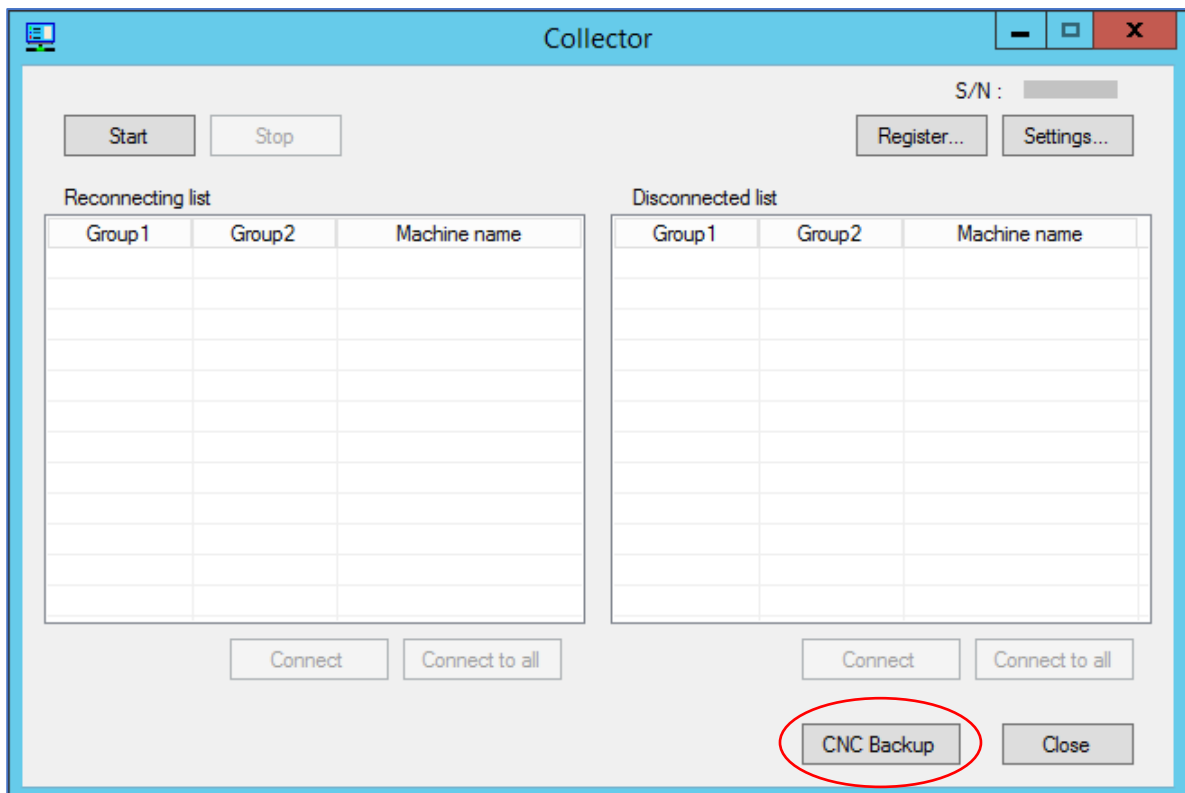
[CNC Backup] button does not appear without setting. Check “Enable backup function” on setting screen to display this button.



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

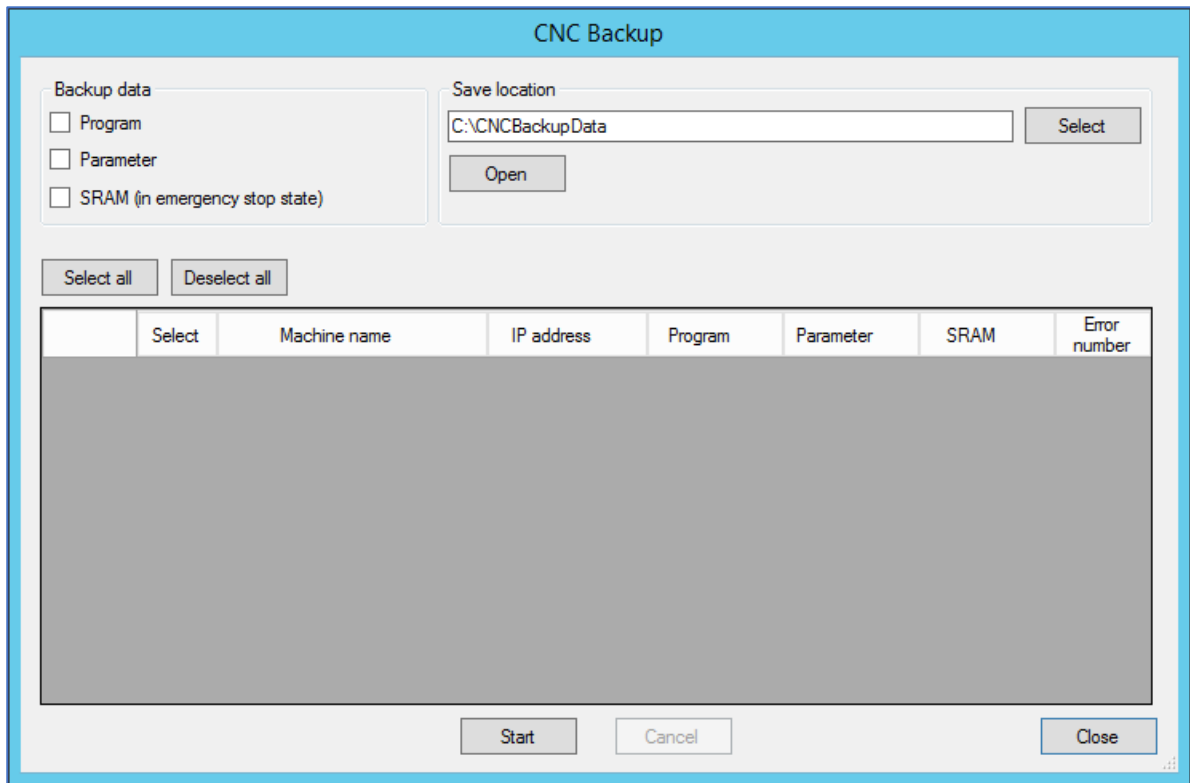


By checking “Enable backup function”, [CNC Backup] button displays on main screen.

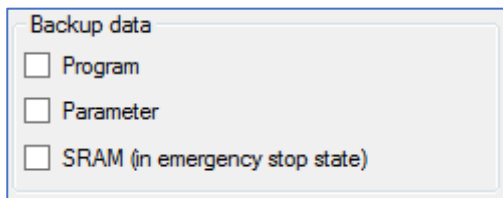


### 3-9-2 About the screen

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



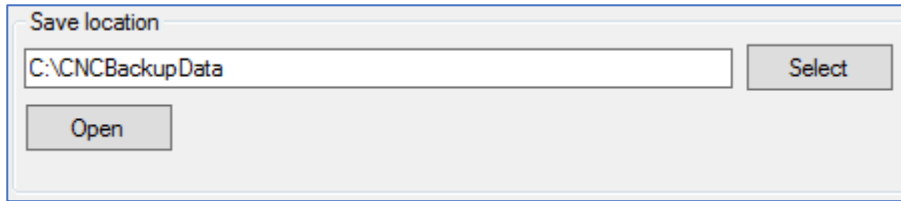
- To back up SRAM data, make the machine into the emergency stop state. Otherwise, an error will be generated.

<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.



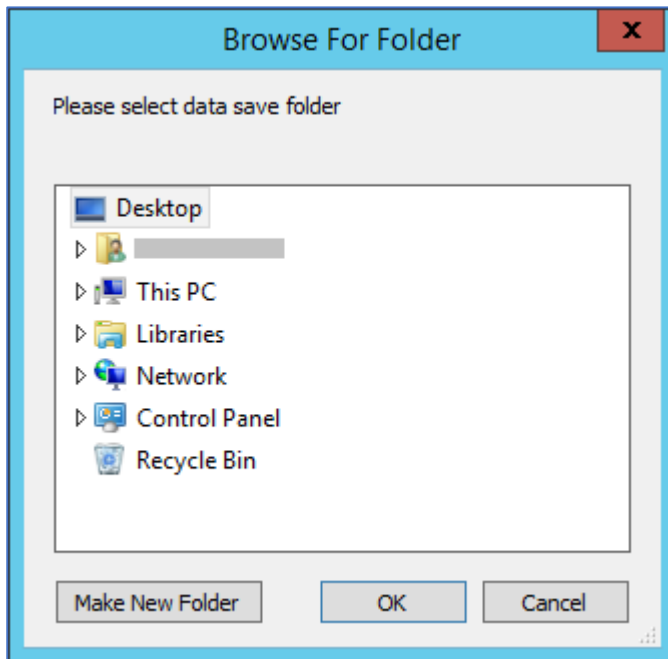
**b) Save location**



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

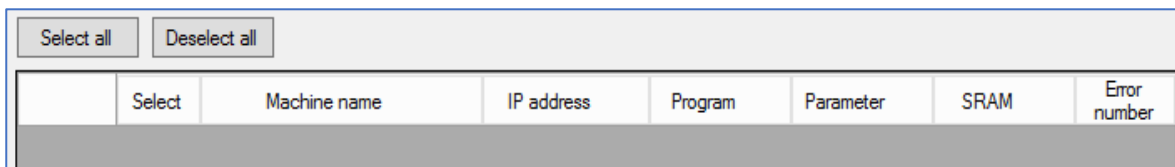
If multiple times of back-up is carried out in the same day, the folder of latest data is created with the name of date and the folders other than the latest one are created with name of back-up execution date and time.

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.



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.

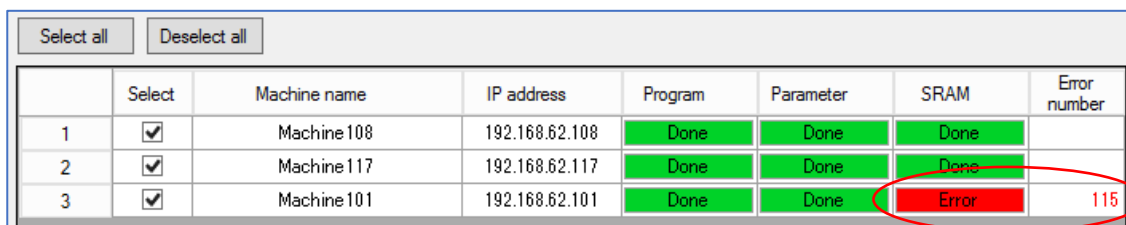
**3-9-3 Operation procedure**

- 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.



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.

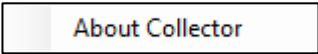
### 3-9-5 Error list

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/**

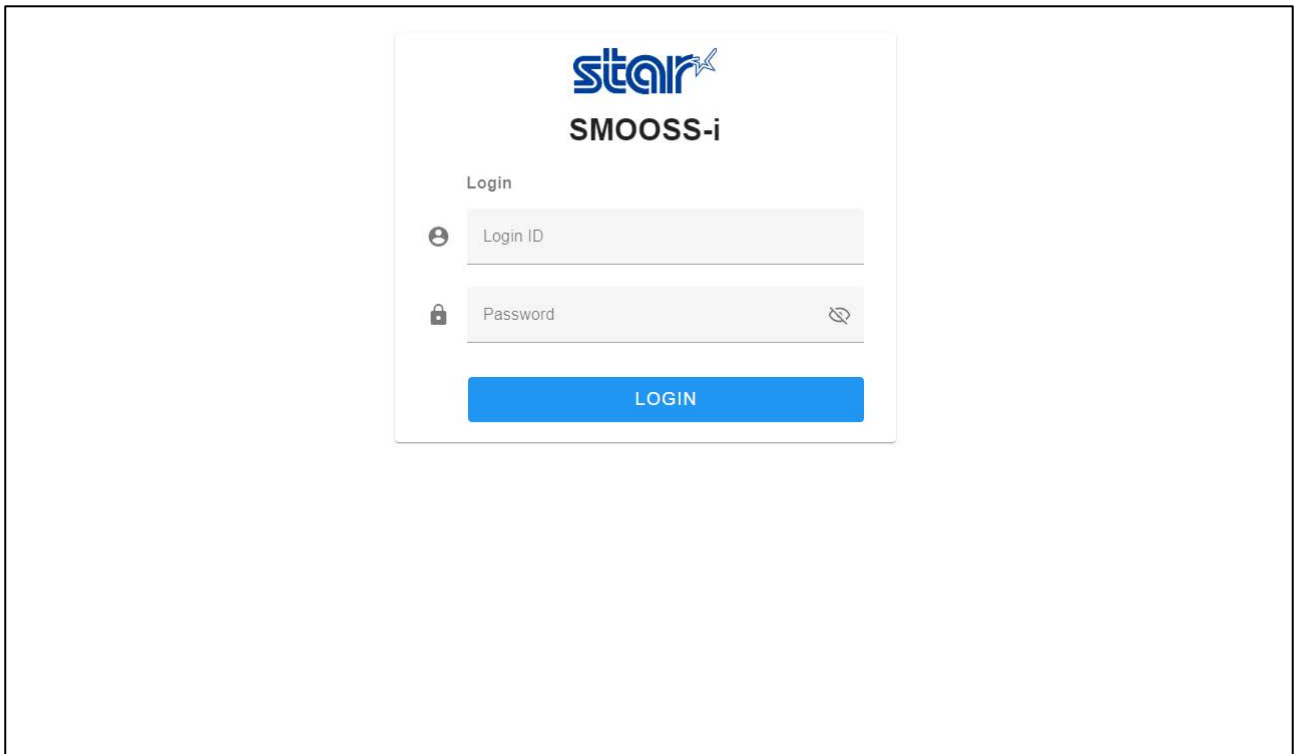
Access to the address by web browser (MS Edge etc.), the login screen will be appeared.

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 shows a web application interface for monitoring machine production. It features a sidebar menu on the left, a top notification bar, and a central data table. Three red boxes highlight specific areas: 'Main menu' on the left sidebar, 'Notification area' at the top right, and 'Display area' in the center of the table.

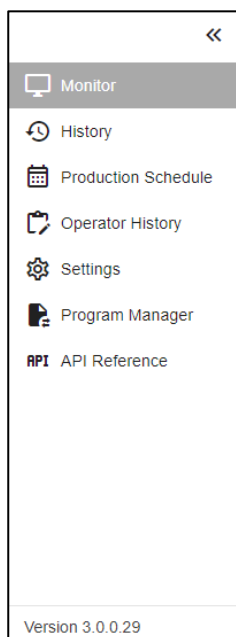
Machine	Program (PATH1)	Count / Preset	Today	Memo
北工場 Line#1 SR-20R #12/21	O1234567891234567890123456...	300 / 500	0	This machine is frequently repaired so please use it with caution.
北工場 Line#1 SX-38 #12/22 SUS	O2222(SUS300-1241-4312)	75 / 1,000	0	This area is to display memo.
北工場 Line#1 SX-38 #12/22 SUS#2	O2222(SUS300-1241-4312)	5,053 / 999,999	0	New Machine since 2023.
北工場 Line#1 SR-20R #1			0	Malfunctioning. Cause under investigation.
北工場 Line#1 SR-20R #2	Disconnect	Disconnect	Disconnect	
北工場 Line#2 SR-20R #3	ABC123	31 / 1,000	0	
北工場 Line#1 SR-20R #4	O9999	31 / 100	0	
南工場 Line#3 SR-20R #5	O1234	95 / 100	0	
南工場 Line#3 SR-20R #6	O1234(SUS200-1241-4312-102...	40 / 100	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.
Settings	Move to the Settings screen.
Program Manager	Open the Program Manager in new tab.
API Reference	Open the API reference in new tab.
Version	Application version at the bottom of the menu.

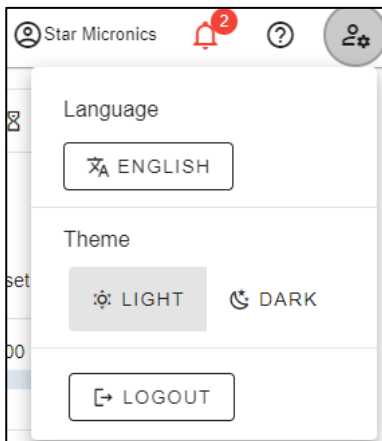
■ Notification area

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 user manual in new tab.
User Icon	Open the User setting panel.

<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

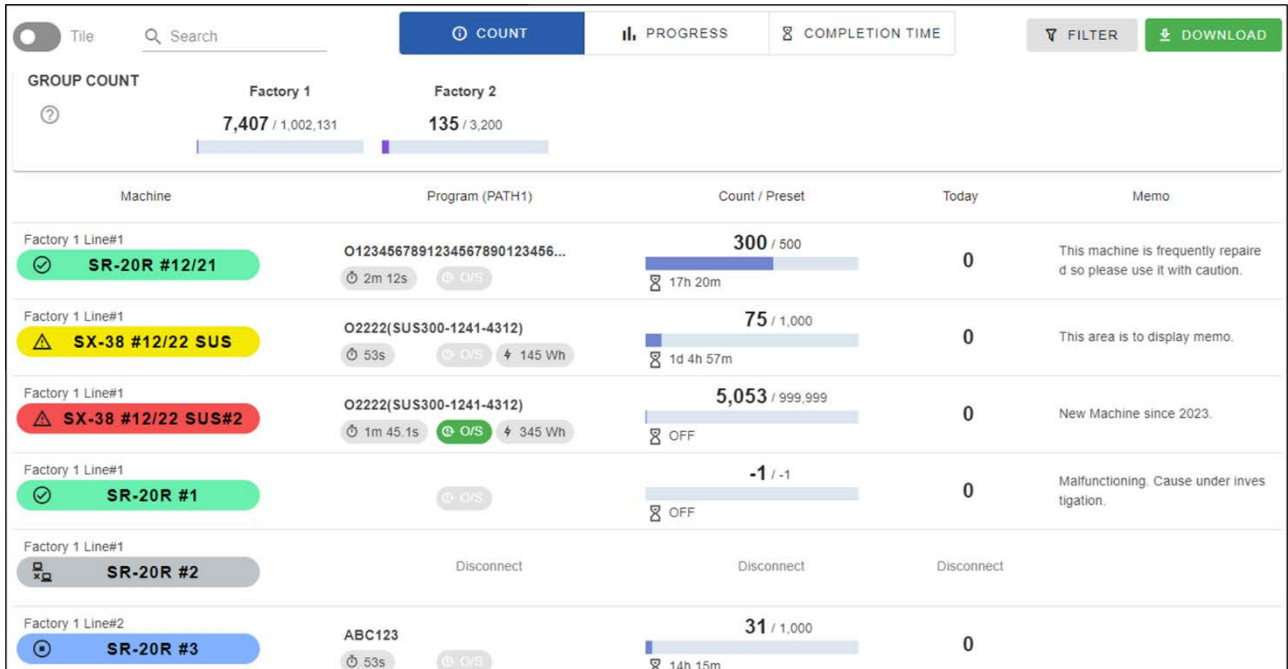
Push the “DARK” button on the user setting panel, dark theme is enabled in the entire application.

MachineStatus	Program (PATH1)	Count / Preset	Today	Memo
Factory 1 Line#1 SR-20R #12/21	01234567891234567890123456...	300 / 500	0	This machine is frequently repaired so please use it with caution.
Factory 1 Line#1 SX-38 #12/22 SUS	02222(SUS300-1241-4312)	75 / 1,000	0	This area is to display memo.
Factory 1 Line#1 SX-38 #12/22 SUS#2	02222(SUS300-1241-4312)	5,053 / 999,999	0	New Machine since 2023.
Factory 1 Line#1 SR-20R #1	Disconnect	Disconnect	Disconnect	Malfunctioning. Cause under investigation.
Factory 1 Line#1 SR-20R #2	Disconnect	Disconnect	Disconnect	
Factory 1 Line#2 SR-20R #3	ABC123	31 / 1,000	0	
Factory 1 Line#2 SR-20R #4	09999	31 / 100	0	
Factory 2 Line#3 SR-20R #5	01234	95 / 100	0	
Factory 2 Line#3 SR-20R #6	01234(SUS200-1241-4312-102...	40 / 100	0	

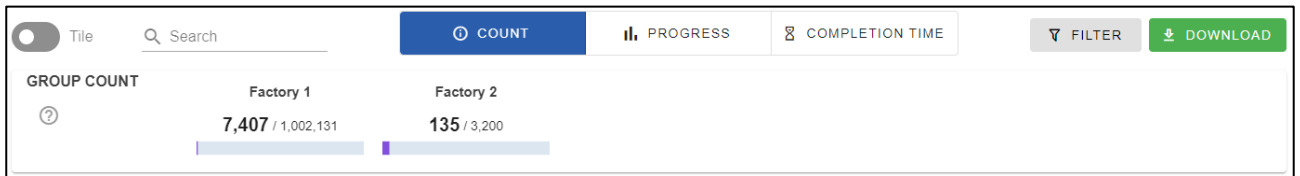
Changed at	Status	Duration	Alarm PATH1	Alarm PATH2	Alarm PATH3
Wed, 08/05/2024 00:00	Minor Alarm	10h 26m 12s	2070 COUNT UP		
Wed, 08/05/2024 10:26	Setting	3s			
Wed, 08/05/2024 10:26	Operate	1m 42s			
Wed, 08/05/2024 10:27	Stop	2m 57s			
Wed, 08/05/2024 10:30	Alarm	6s	EX1142 REWIND TO TOP OF PROGRAM		
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”
Filter	Open machine filter screen.
Group Count (*1)	Total count/schedule for each Group 1 or Group 2 is shown. 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. For machines without production schedule, machine preset and count values are added up.

(\*1) Group1 or Group2 to accumulate can be changed from 4-9-4 System Setting screen. When group name is empty, “Unset” is displayed as group1 or group2.

### 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
 

プログラム名  
 All

Onecycle Stop  
 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.
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

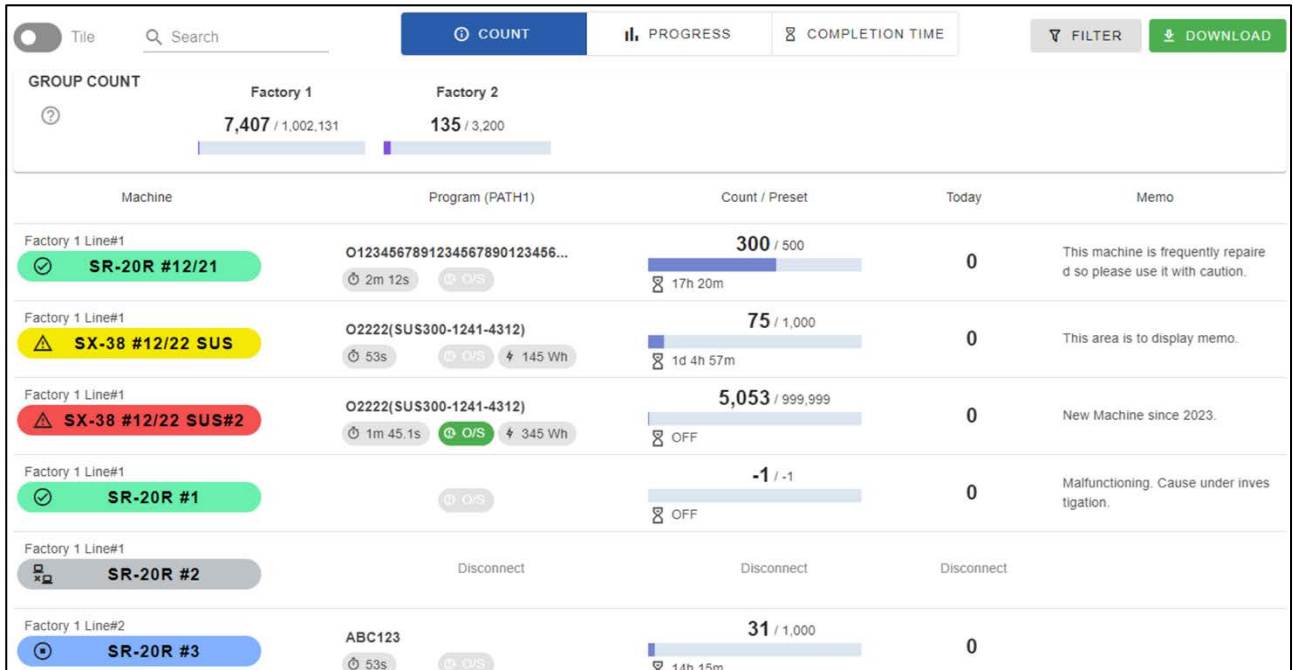
O2222

O/S ON

12hours

### 4-4-2 Count List

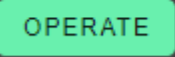
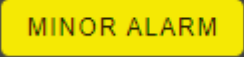
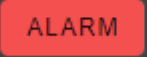

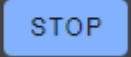
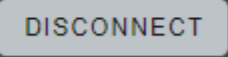
When “COUNT” is selected as information type, real time count or preset of each machine are displayed.









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"> <li>• PATH1 Program name + (Comment written at program beginning) <b>O2222(SUS300-1241-4312)</b></li> <li>• Cycle time 2m 12s</li> <li>• One cycle stop ON (Green) /OFF (Gray) O/S O/S</li> <li>• One cycle power consumption (only for machines have corresponding function) 145 Wh</li> </ul>
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	<p>Accumulated count since today’s operation started (*3).</p> <p>(Reset of count is ignored.)</p>
Memo	<p>Machine memo (*4)</p>

(\*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		
		
		
OPERATE	MINOR ALARM	ALARM
SETTING	STOP	DISCONNECT


  

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”.

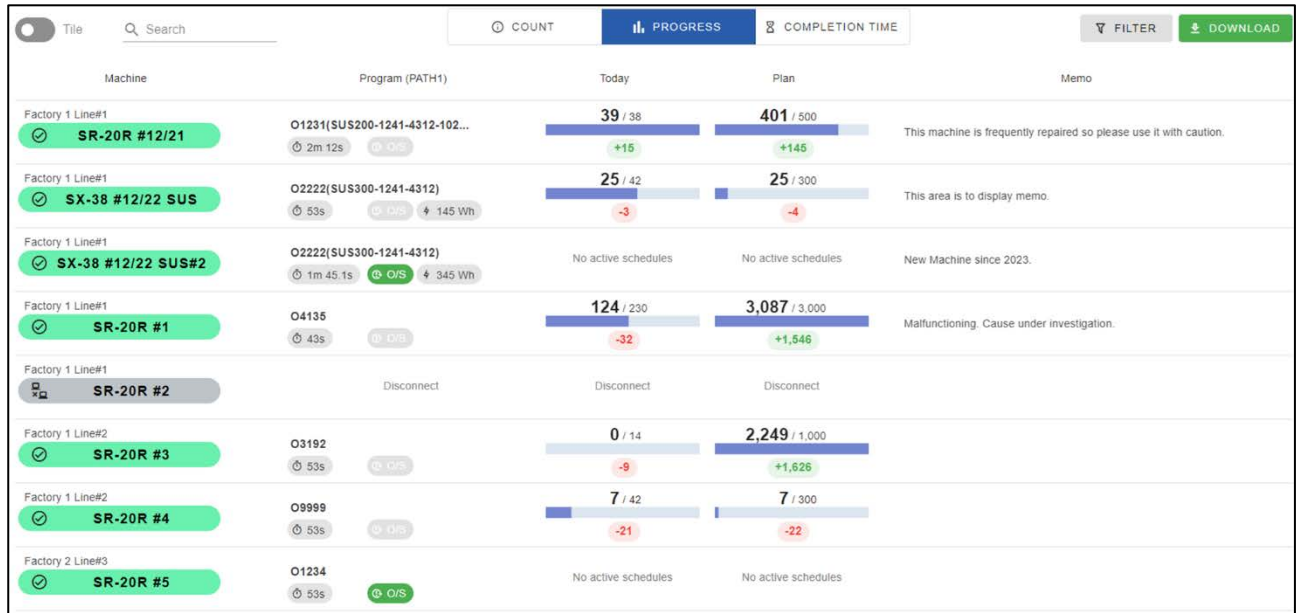
(\*3) Operation time of machines can be set any time. If not set, this value is accumulated count since 0 A.M.

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 4-9-4 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 1<sup>st</sup> 9:00 to April 5<sup>th</sup> 19:00

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

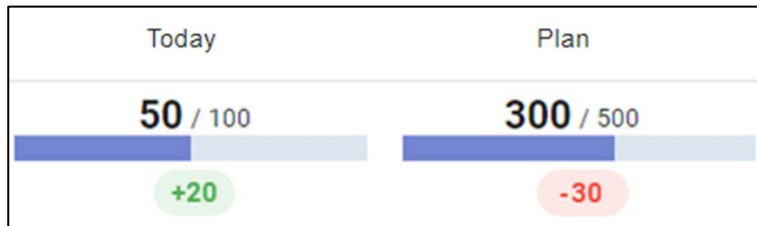
<Condition>

Current Date: April 4<sup>th</sup> 12:00

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

Date	April 1 <sup>st</sup>	April 2 <sup>nd</sup>	April 3 <sup>rd</sup>	April 4 <sup>th</sup> (today)	April 5 <sup>th</sup>
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)	CompletionTime	Part Counter	Tool Life	Memo
Factory 1 Line#1 SR-20R #12/21	O1231(SUS200-1241-4312-102... 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	O2222(SUS300-1241-4312) 53s 145 Wh	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	O2222(SUS300-1241-4312) 1m 45.1s 345 Wh	Sun, 07/22/2029 09:26	1901d 17h 39m 994,946 Left	OFF - Left	New Machine since 2023.
Factory 1 Line#1 SR-20R #1	O4135 43s	-	OFF - Left	OFF - Left	Malfunctioning Cause under investigation.
Factory 1 Line#1 SR-20R #2	Disconnect	-	-	-	-
Factory 1 Line#2 SR-20R #3	O3192 53s	Wed, 05/08/2024 06:02	14h 15m 969 Left	14h 43m 1,000 Left	
Factory 1 Line#2 SR-20R #4	O9999 53s	Tue, 05/07/2024 16:47	1h 0m 69 Left	OFF - Left	
Factory 2 Line#3 SR-20R #5	O1234 53s	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.

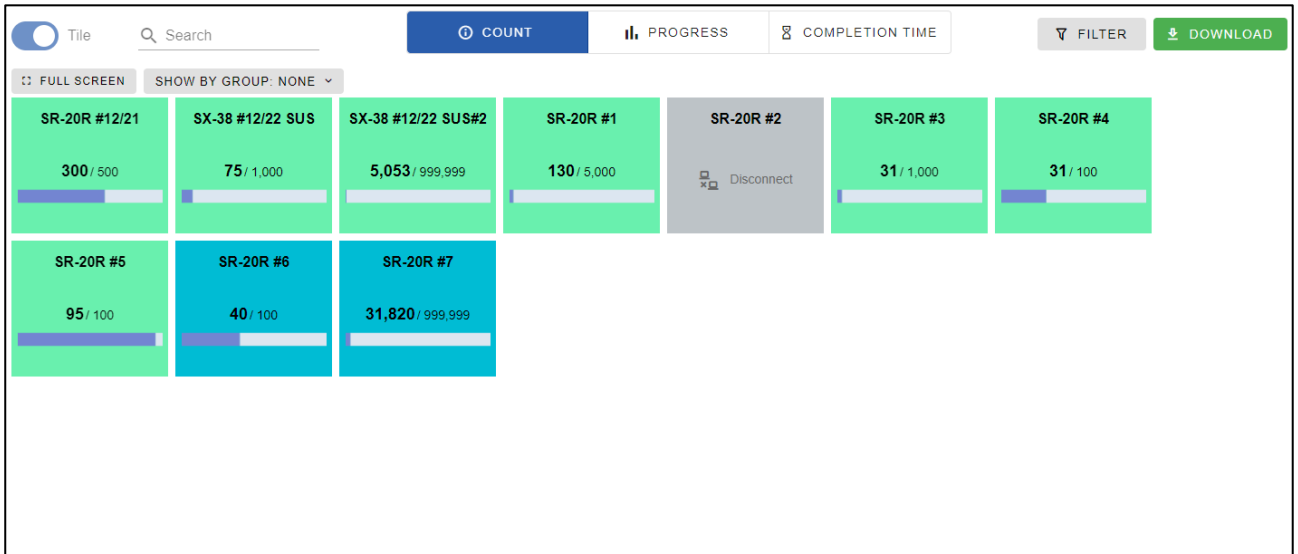
Items	Contents
Completion Time (*1)	Estimated completion date and time when operation stops. The color changes according to the remaining time (*2). If “SETTING OF NON-STOP TIME PERIOD” is On, this value changes according to the set parameter.
Part Counter	The remaining time until part counter reaches 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 4-9-4 system setting screen.

(\*2) Correspondence of color and time criteria can be modified on 4-9-4 system setting screen.

### 4-4-5 Tile View

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

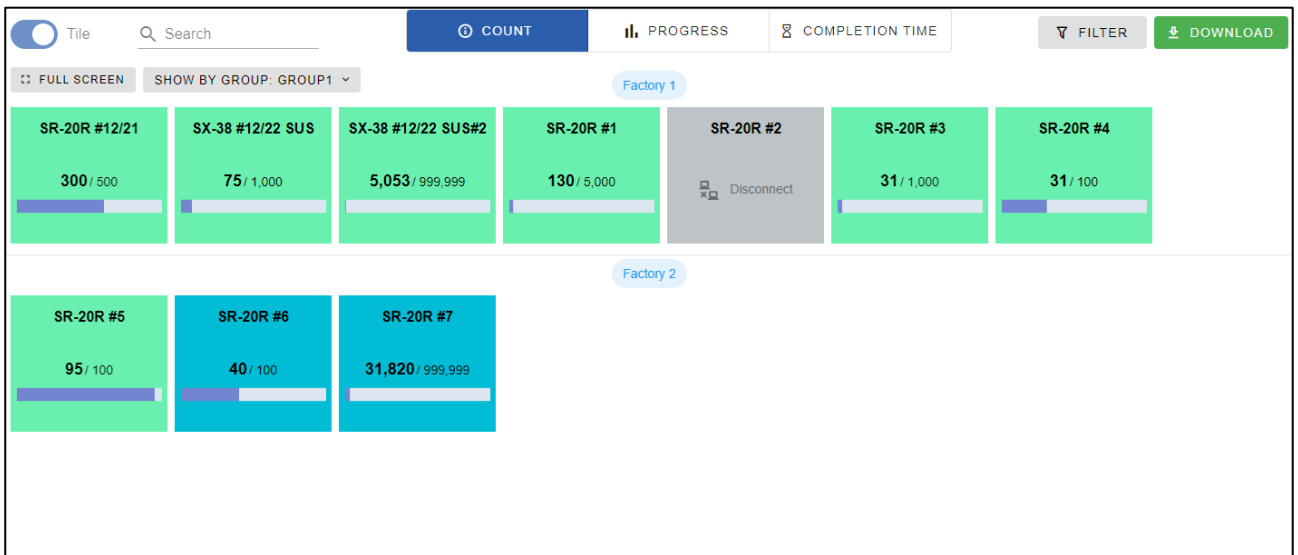


Background color of tile shows the status of machine.

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

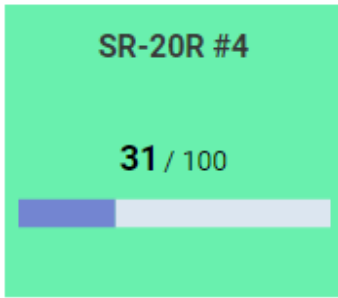
Select “SHOW BY GROUP” list to display tiles grouped by group1 or group2.

#### ■ Grouped display



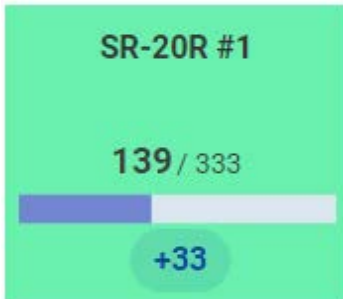
■Count

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.

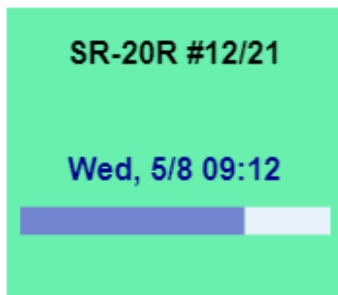


■Completion Time

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

They can be switched from 4-9-4 System Setting screen.

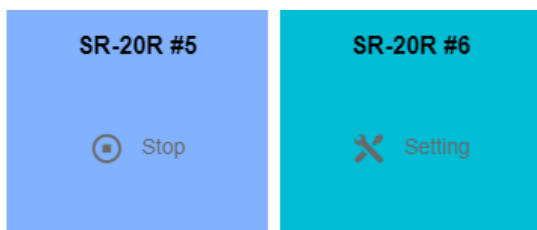
<Completion Time>



<Remaining Time>

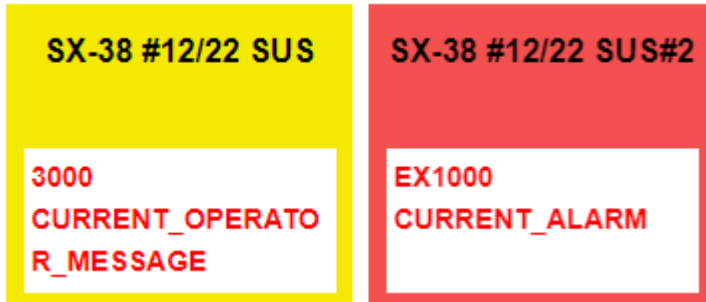


Following tiles are displayed when machine status is stop or setting.



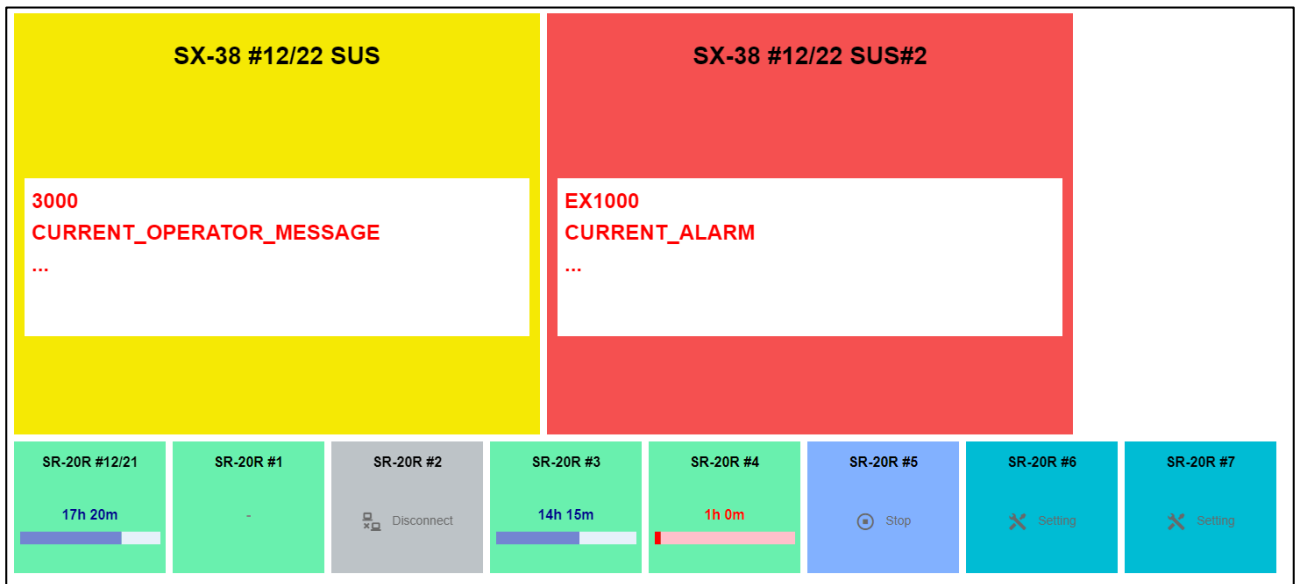
■Alarm / Minor Alarm

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 4-9-4 System Setting screen. “...” means there are multiple alarms occurred.



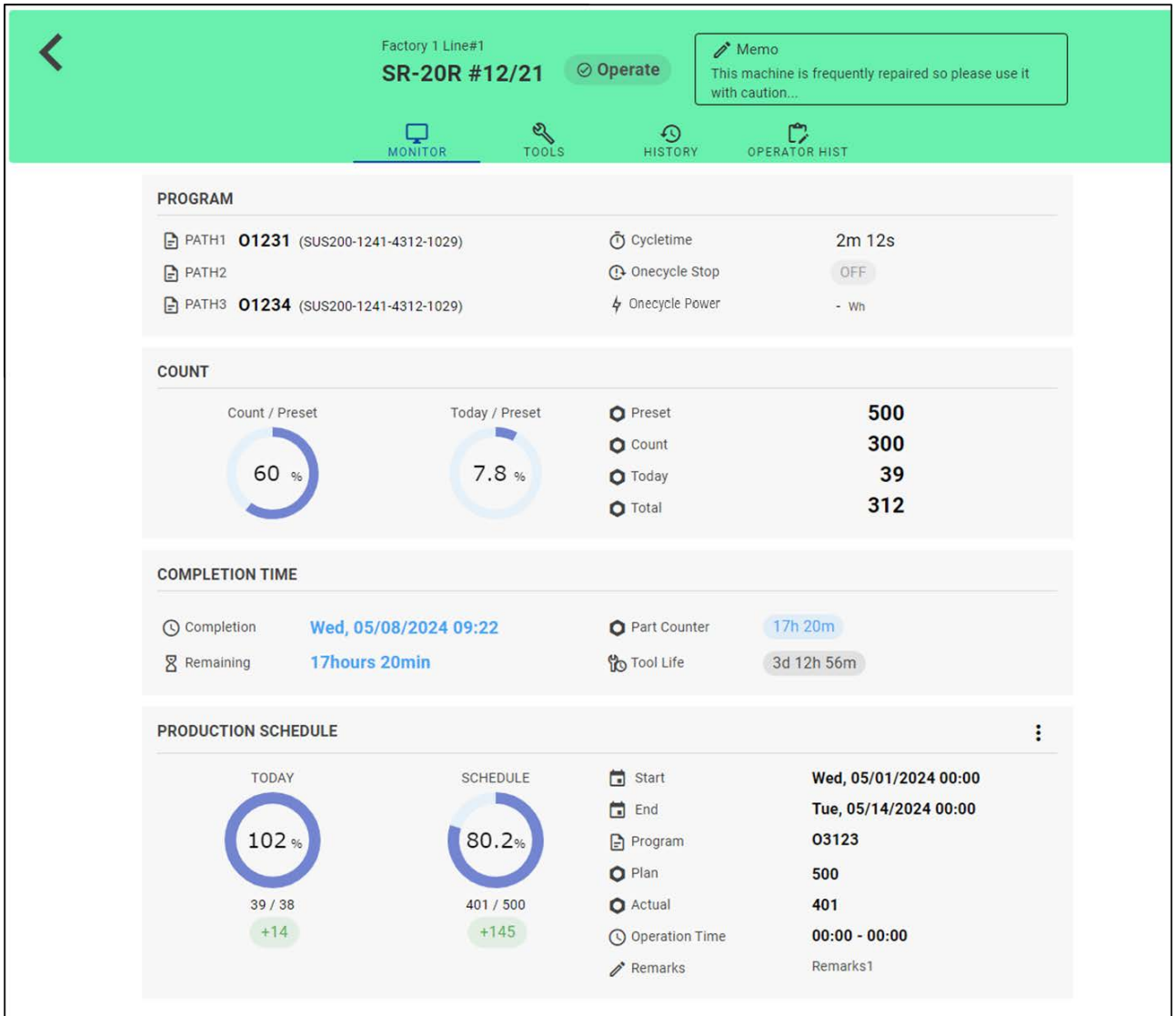
■Disconnect (Tile view)

Disconnected machines are displayed as grey tile.

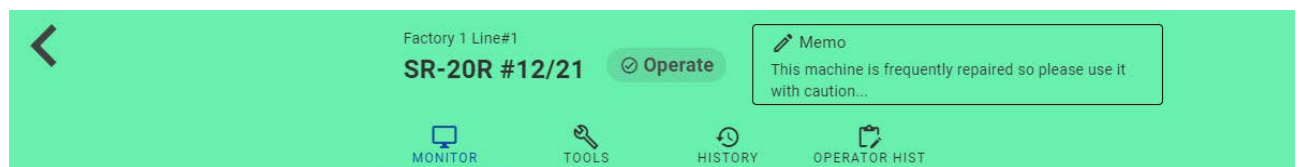


## 4-5 Machine Dashboard

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.



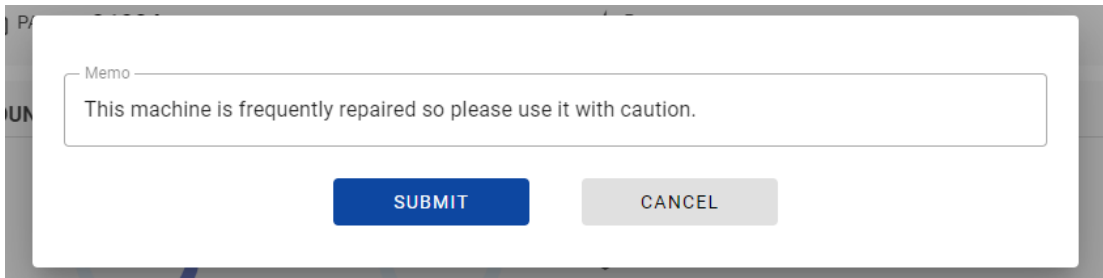
### ■Header



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.

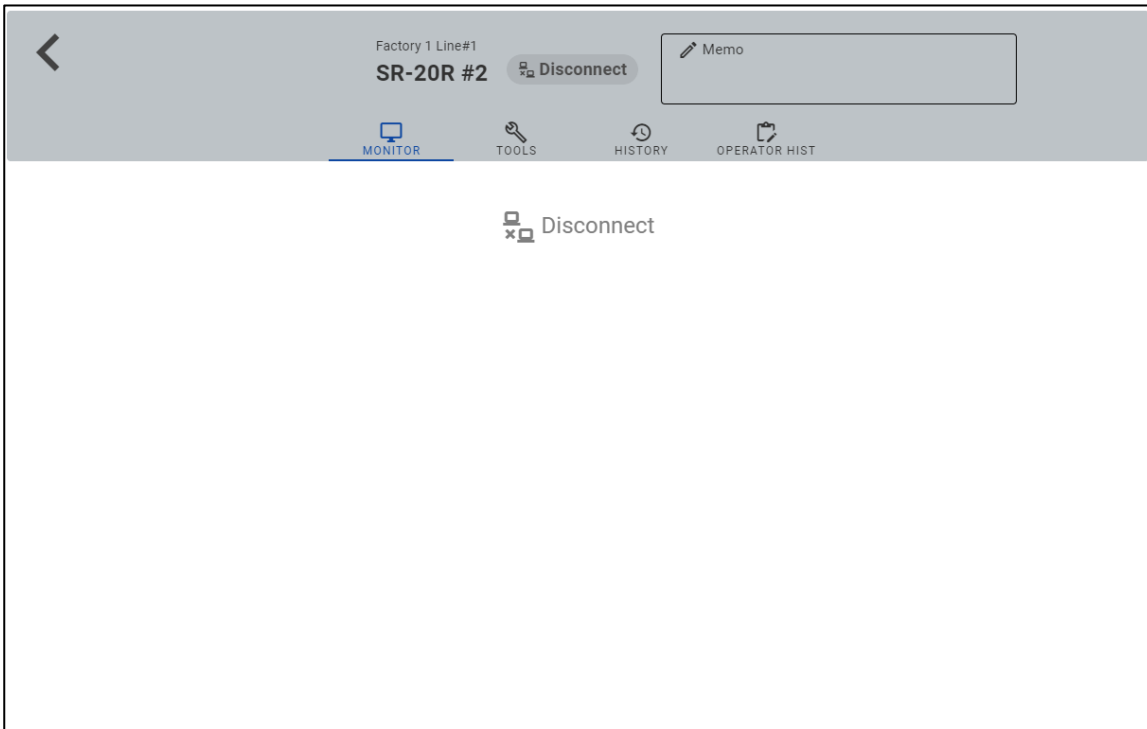
■Memo

Edit and submit memo.



■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**

---

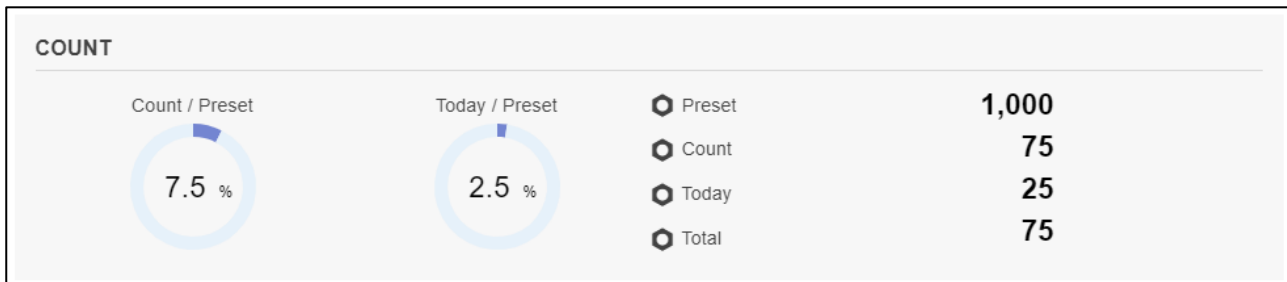
 PATH1 <b>02222</b> (SUS300-1241-4312)	 Cycletime	53s
 PATH2 <b>02222</b> (SUS300-1241-4312)	 Onecycle Stop	<b>ON</b>
 PATH3 <b>02222</b> (SUS300-1241-4312)	 Onecycle Power	145 Wh

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



■COUNT

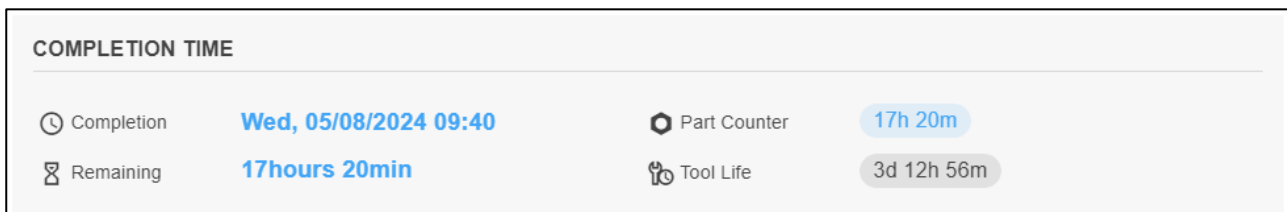
Machine count against preset and today’s count against preset are displayed as donut charts. Machine preset, count, today’s count and machine total are displayed as numbers.



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.



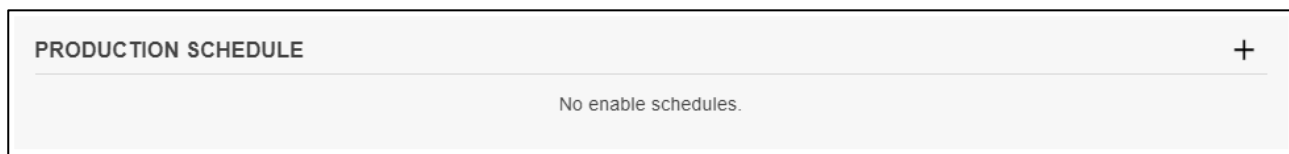
Items	Contents
Completion	Estimated completion date and time
Remaining	Remaining time until completion time
Part Counter	Remaining time until part counter reaches. “OFF” is displayed when part counter is OFF.
Tool Life	Remaining time until tool life counter reaches “OFF” is displayed when tool life counter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

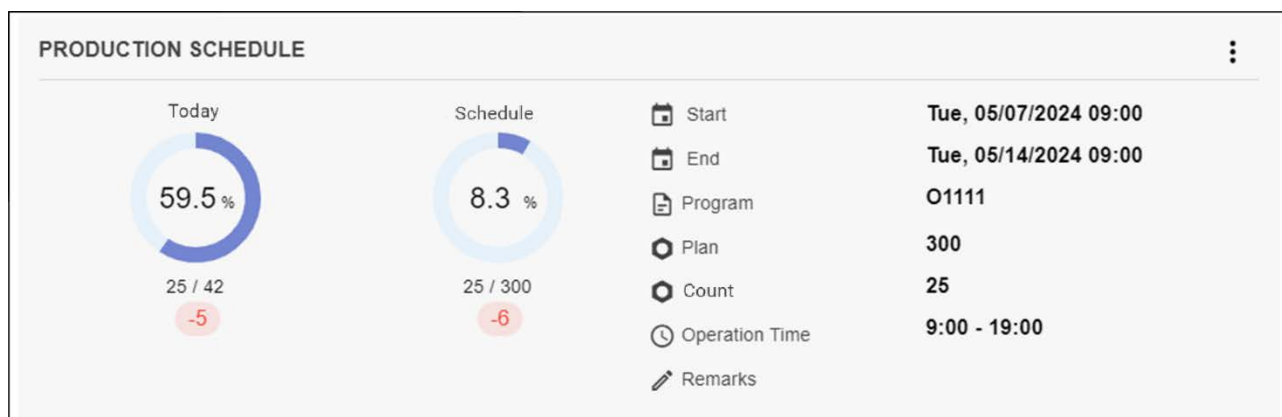


<During production schedule>

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)



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								<a href="#">DOWNLOAD</a>
Tool Life Counter <input checked="" type="radio"/>		Non-Stop Hours <input checked="" type="radio"/> 17:00 - 8:00						<input type="checkbox"/> 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:  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:  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:  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:  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:  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>■<b>Machines by number</b> Counter No. is displayed.</p> <p>■<b>Machines by tool number</b> 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>■<b>FANUC CNC (standard functions)</b> Serial number in group and tool number in parentheses are displayed.</p> <p>■<b>MITSUBISHI CNC</b> 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

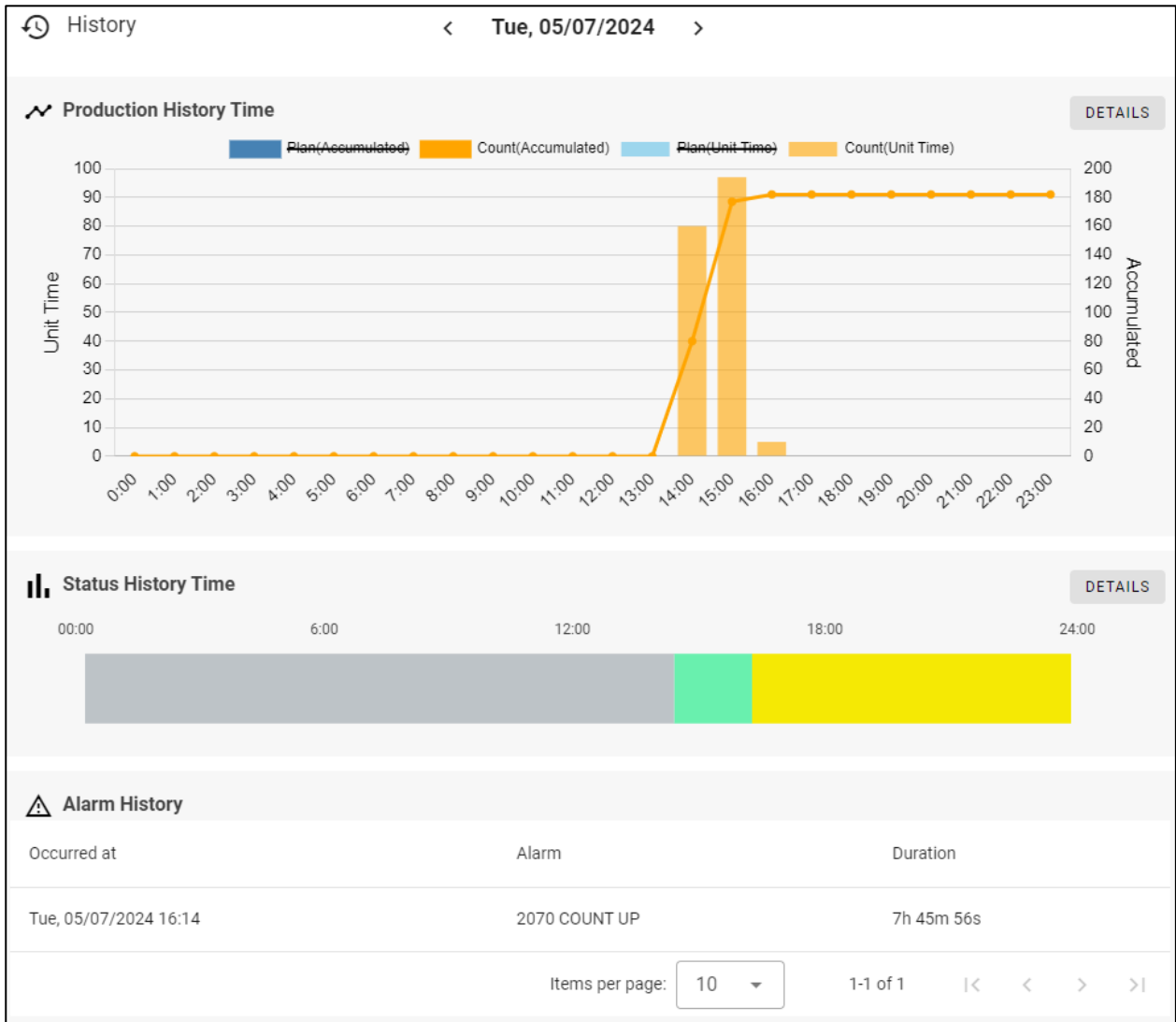
NOTICE



- 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.

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



#### 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

To

Now

**Machine**

Group1  ▼

Group2  ▼

Machine  ▼

Unit Time  ▼

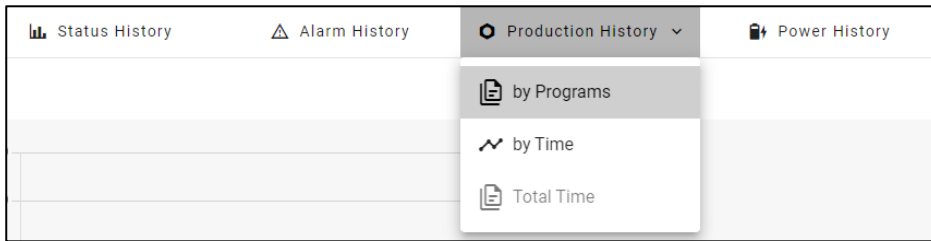
Program

Comment

Items	Contents
Period (Start)	Select start date and time. When clicking “This month”, 1 <sup>st</sup> 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

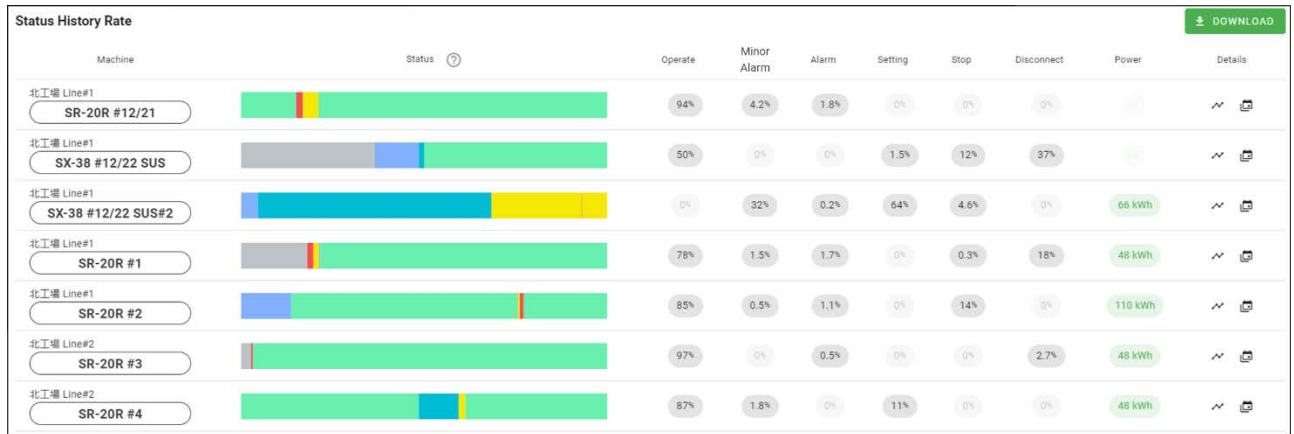
Select History kind to display from the history menu.





### 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	Time rate of each status against the specified period
Operate - Disconnect	
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.

Changed at	Status	Duration	Alarm PATH1	Alarm PATH2	Alarm PATH3
Sun, 05/05/2024 16:00	Disconnect	1d 22h 20m 12s			
Tue, 05/07/2024 14:20	Operate	1h 53m 51s			
Tue, 05/07/2024 16:14	Minor Alarm	18h 12m 9s	2070 COUNT UP		
Wed, 05/08/2024 10:26	Setting	3s			
Wed, 05/08/2024 10:26	Operate	1m 42s			
Wed, 05/08/2024 10:27	Stop	2m 57s			
Wed, 05/08/2024 10:30	Alarm	6s	EX1142 REWIND TO TOP OF PROGRAM		
Wed, 05/08/2024 10:31	Stop	3s			
Wed, 05/08/2024 10:31	Operate	26s			
Wed, 05/08/2024 10:31	Stop	3s			

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



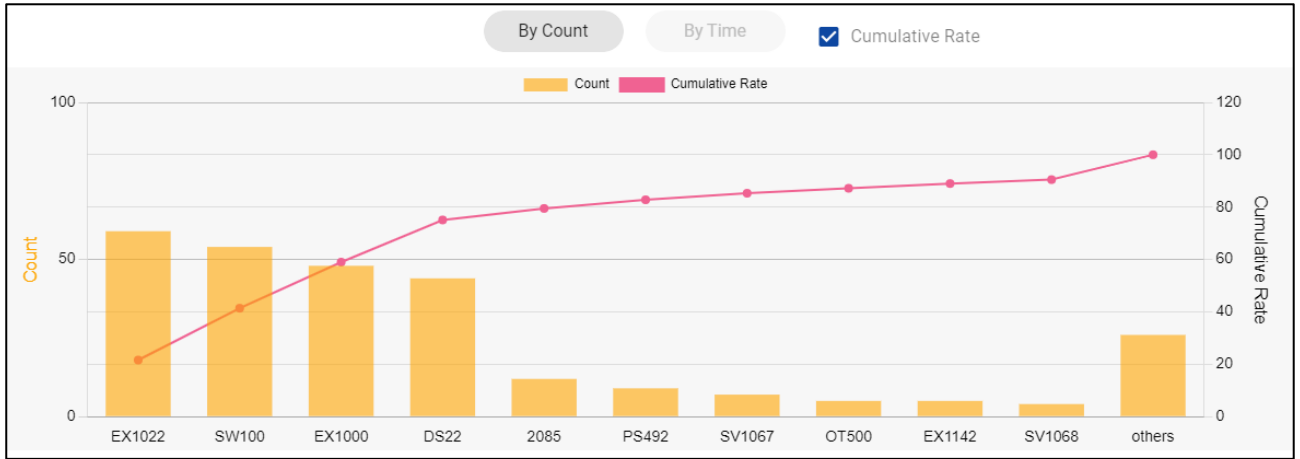
Click “By Count” or “By Time” button on the screen to switch counter-based display or time-based display.

■ Show Cumulative rate chart

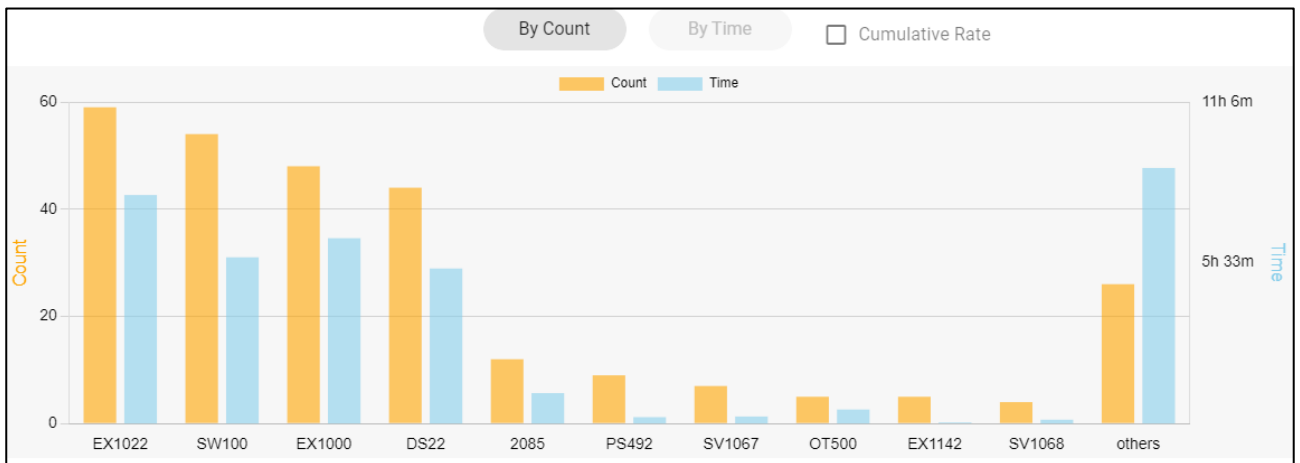


Check “Cumulative Rate” to show cumulative rate chart on the count/time chart.

<Cumulative rate ON>



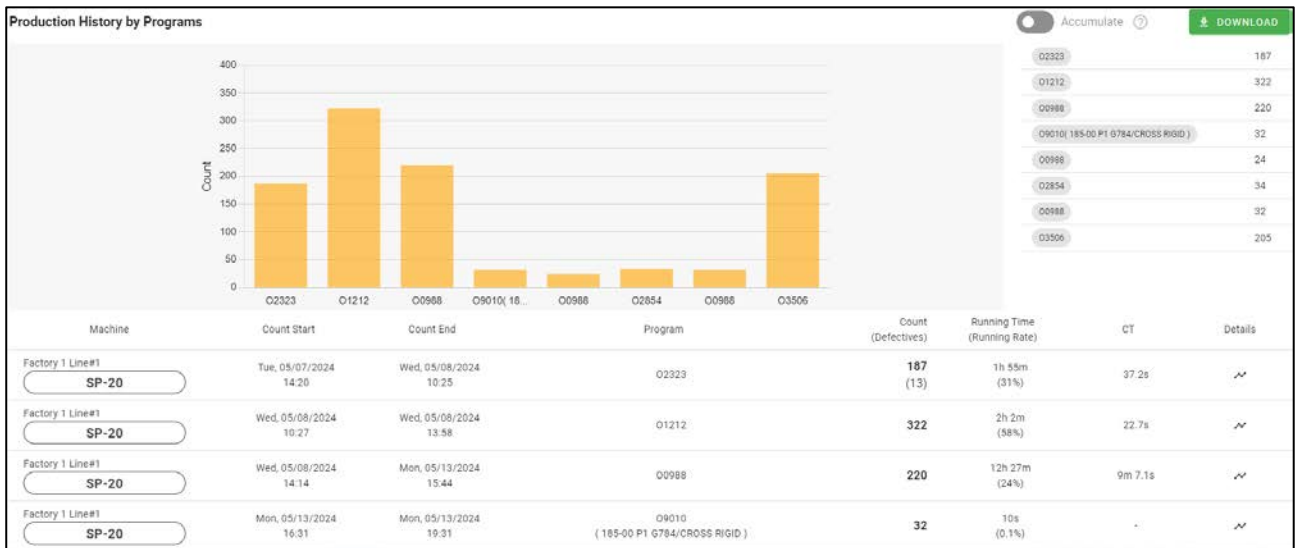
<Cumulative rate OFF>



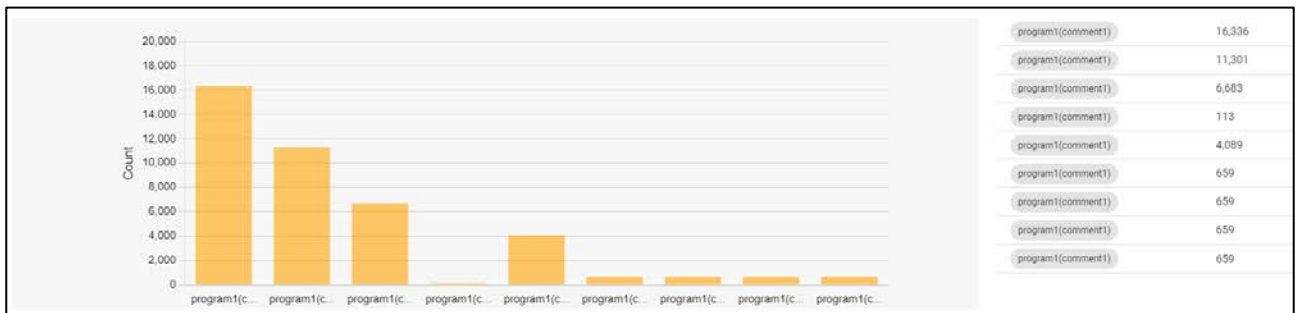


### 4-6-5 Production History by Programs

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.



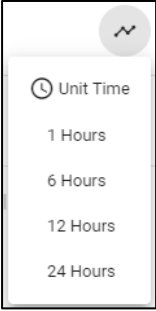
#### ■ Count chart



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

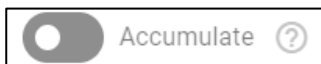
**NOTE**  **Difference of Average and Median**

- 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.

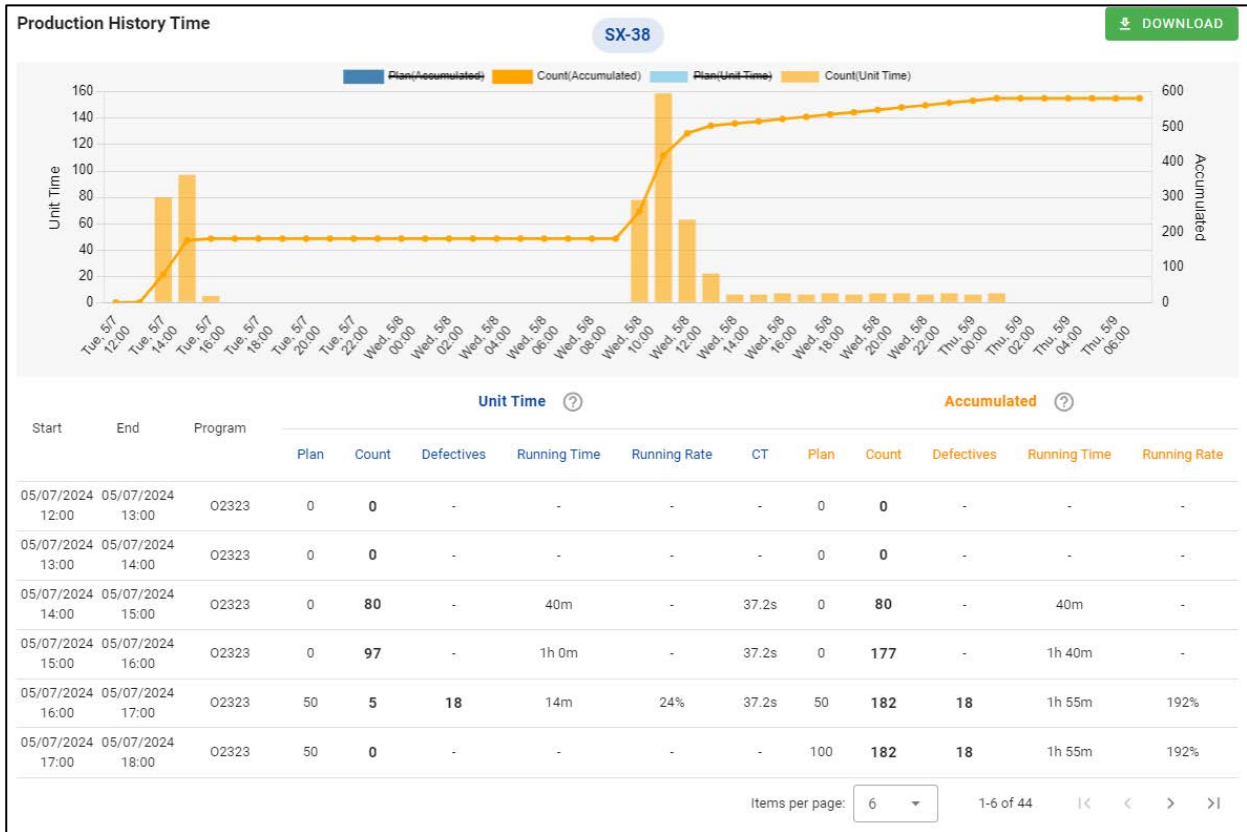


### 4-6-6 Production History by Time

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.

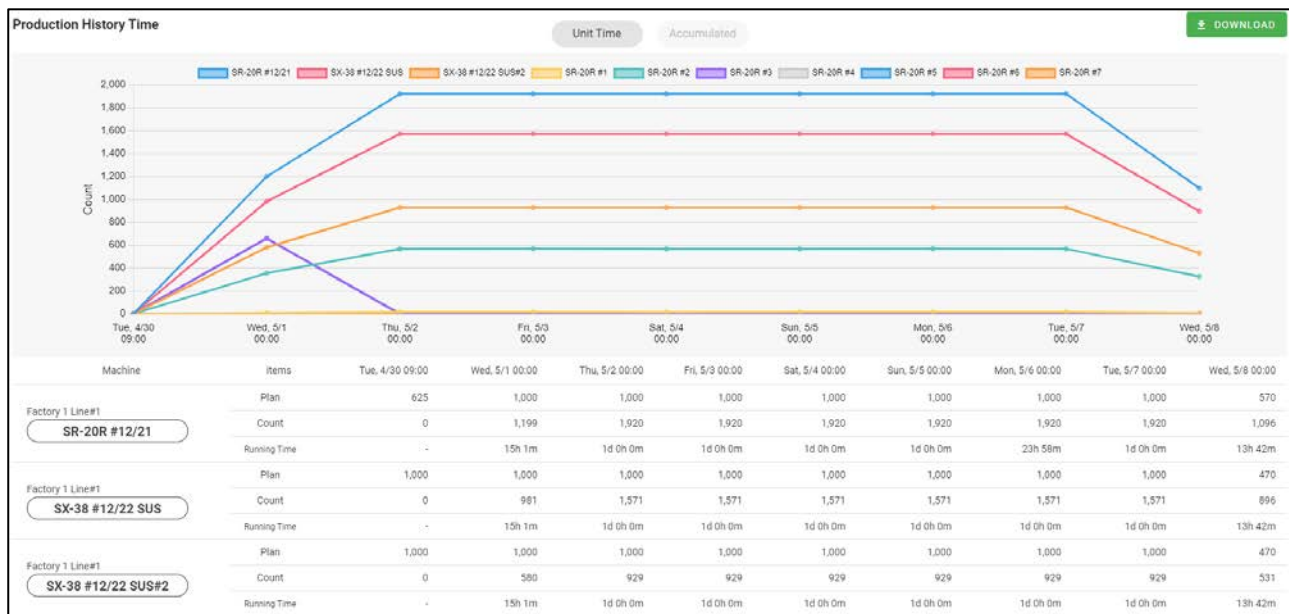


Items	Contents	
Machine	Group1,2 and machine name	
Start / End	Star and End date and time to cumulative	
Program	The name of the main program selected on PATH 1 and comment described at the top of the program	
Unit Time / Accumulated	Plan	The number of planned production (*1)
	Count	Cumulative count 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

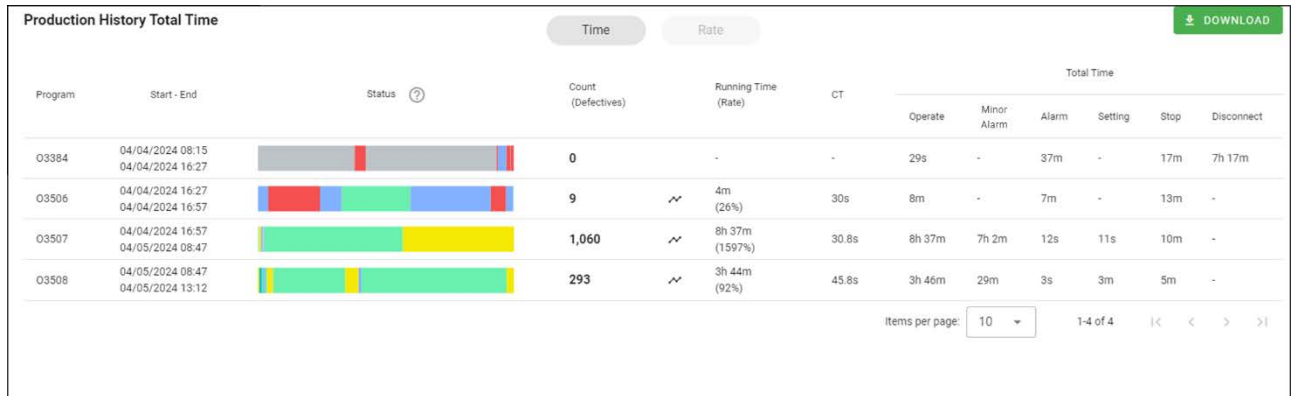
(\*1) Displays the value of Plan (final planned quantity to be produced) set on 4-7 Production Schedule screen. When “Production schedule” is not set, value of Plan will be Preset value of the machine representing the quantity to be produced in a day. Zero is applied to Holiday and outside operating 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 4-9-4 system setting screen.



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

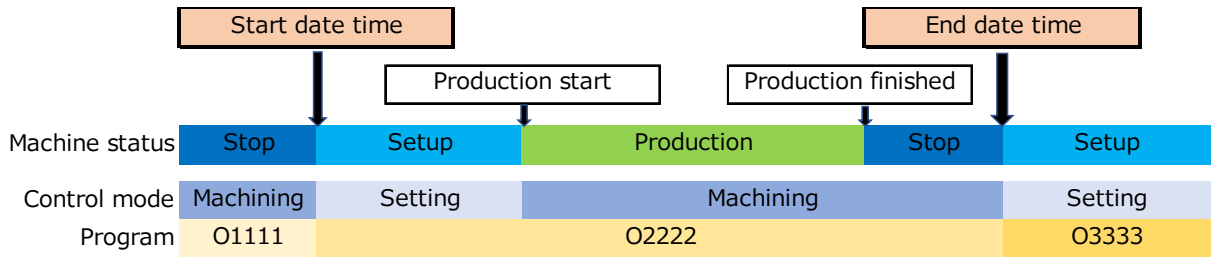
項目	内容	
Program	The name of the main program selected on PATH 1	
Start (*1)	The date and time when the control mode was changed from Machining to Setting before production	
End (*1)	the date and time when the control mode was changed from Machining to Setting after production	
Status (Bar chart)	Machine 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.



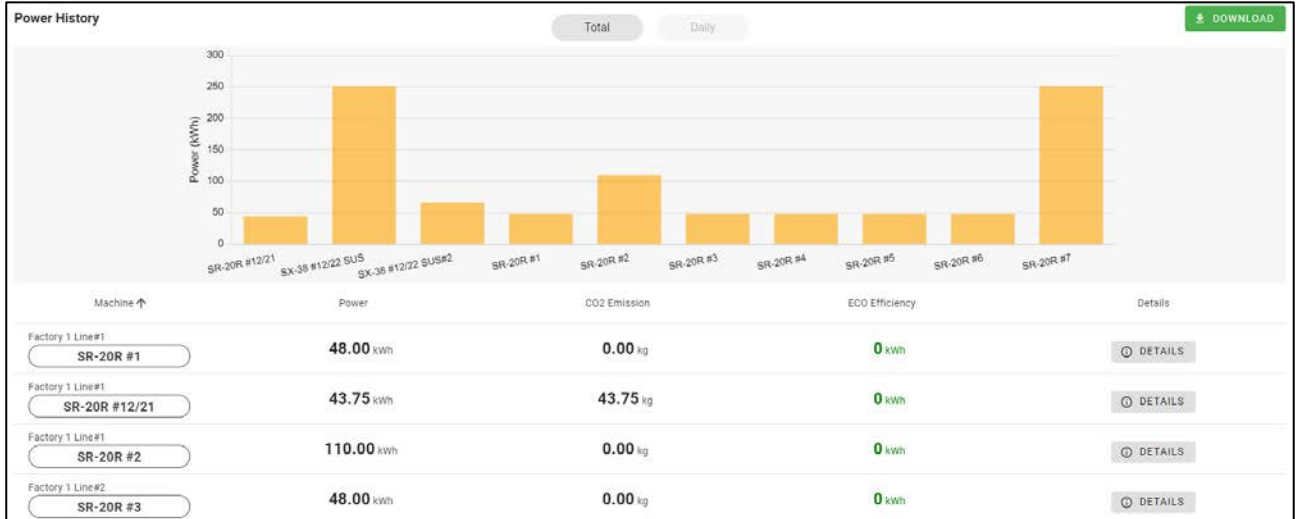
### 4-6-8 Power History

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.

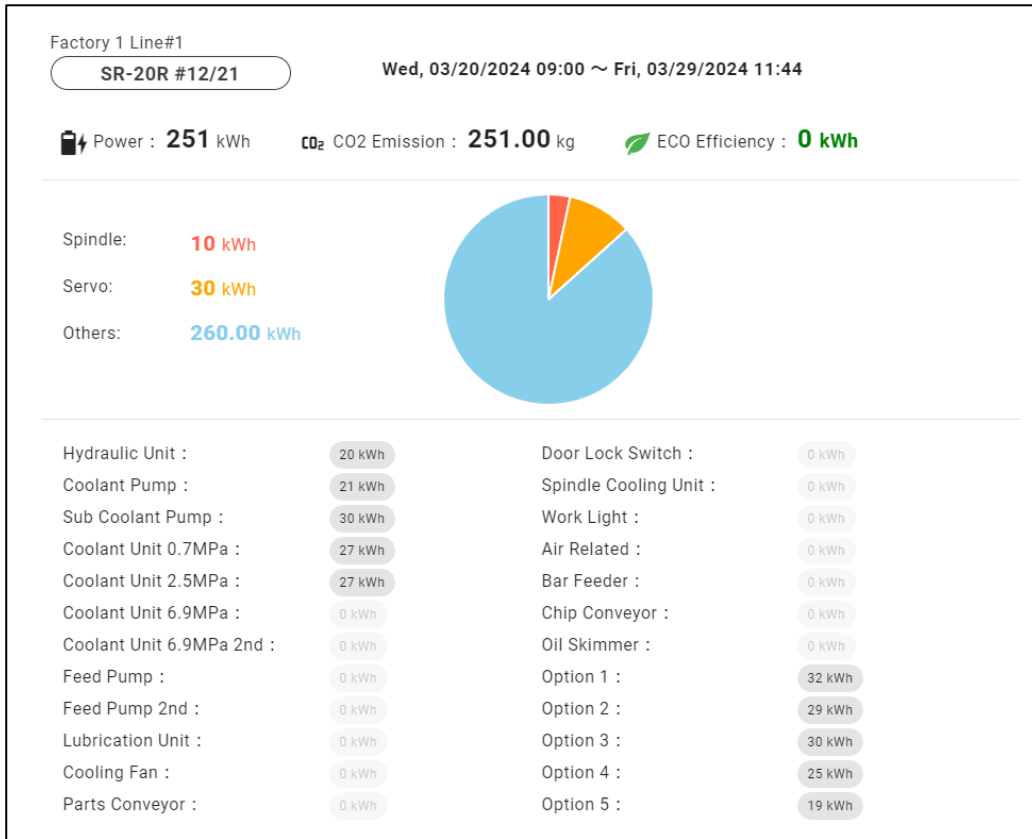


Items	Contents
Machine	Group 1, 2 and machine name
Power	Power consumption in a day



■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**

From: 2024/05/08

---

This month This week Today

To: 2024/05/08

---

**Machine**

Group1: All ▼

---

Machine: All ▼

Group2: All ▼

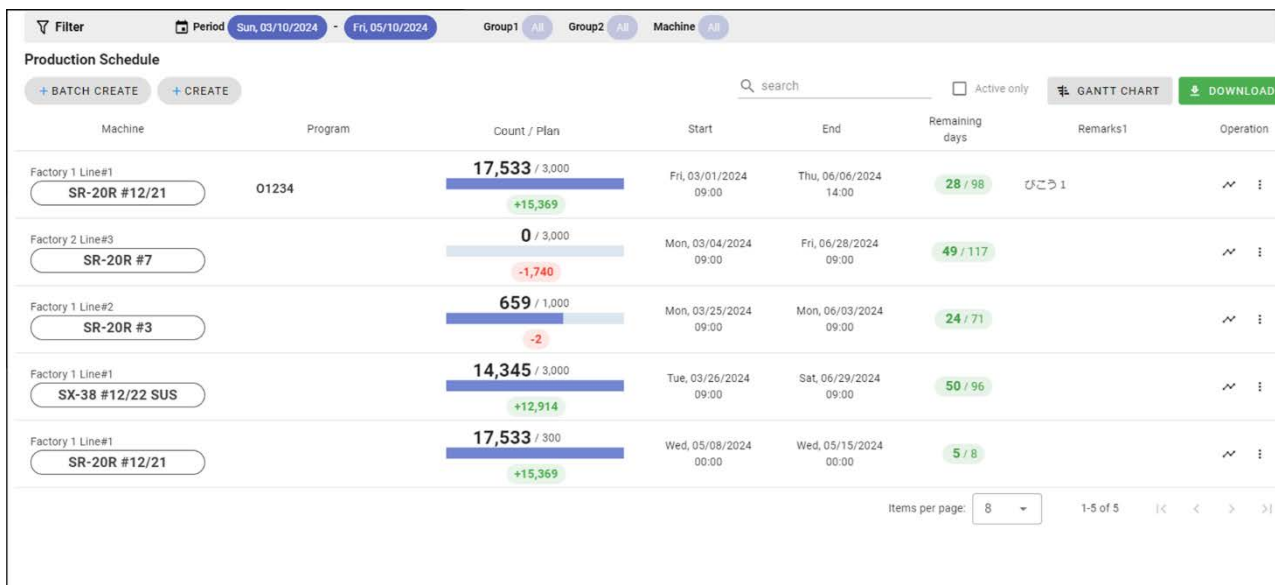
---

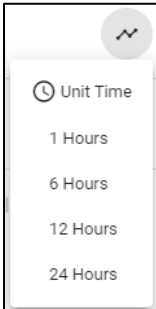
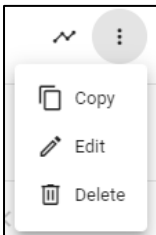
FILTER

CANCEL

Items	Contents
Period (Start)	Select start date. Set 1 <sup>st</sup> 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



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>  <p>Click “...” icon to copy, edit or delete schedule.</p> 

■ Search Form

Enter characters to partial search by program and remarks1,2,3 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.

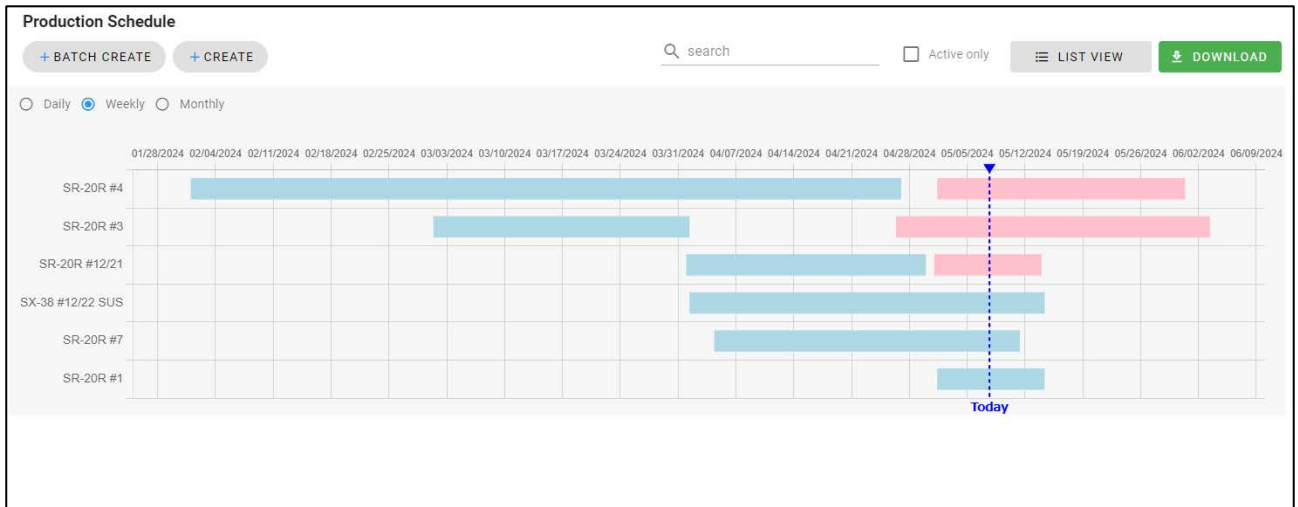
■ Gantt chart view

Click to display schedules as gantt chart view.

## ■ Gantt Chart view

Schedules are displayed as gantt charts.

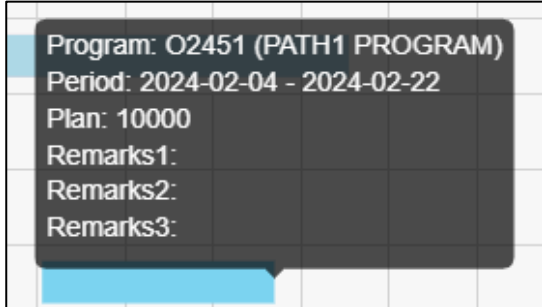
Red and blue bars show period of schedules alternately for each machine.



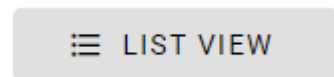
Change "Daily" "Weekly" "Monthly" buttons to change labels of chart.



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.

The screenshot shows a calculation form with the following fields and values:

- Start: 2022/12/20 00:00
- End: 2022/12/26 12:15
- 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
- Plan: 3000

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

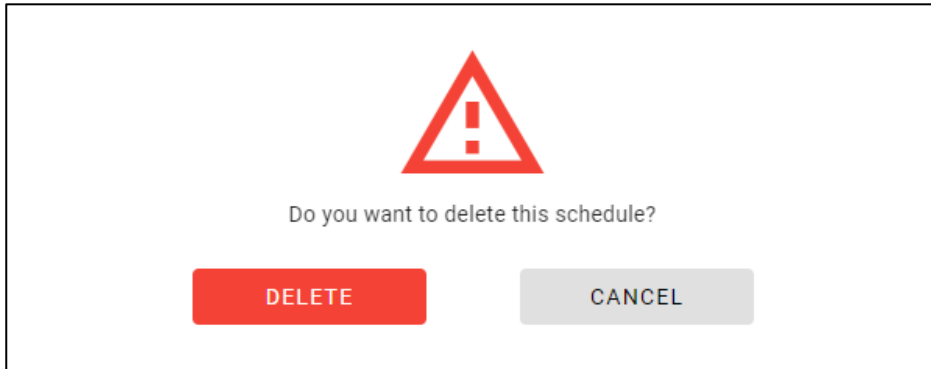
Remarks3

SUBMIT CANCEL



■Delete

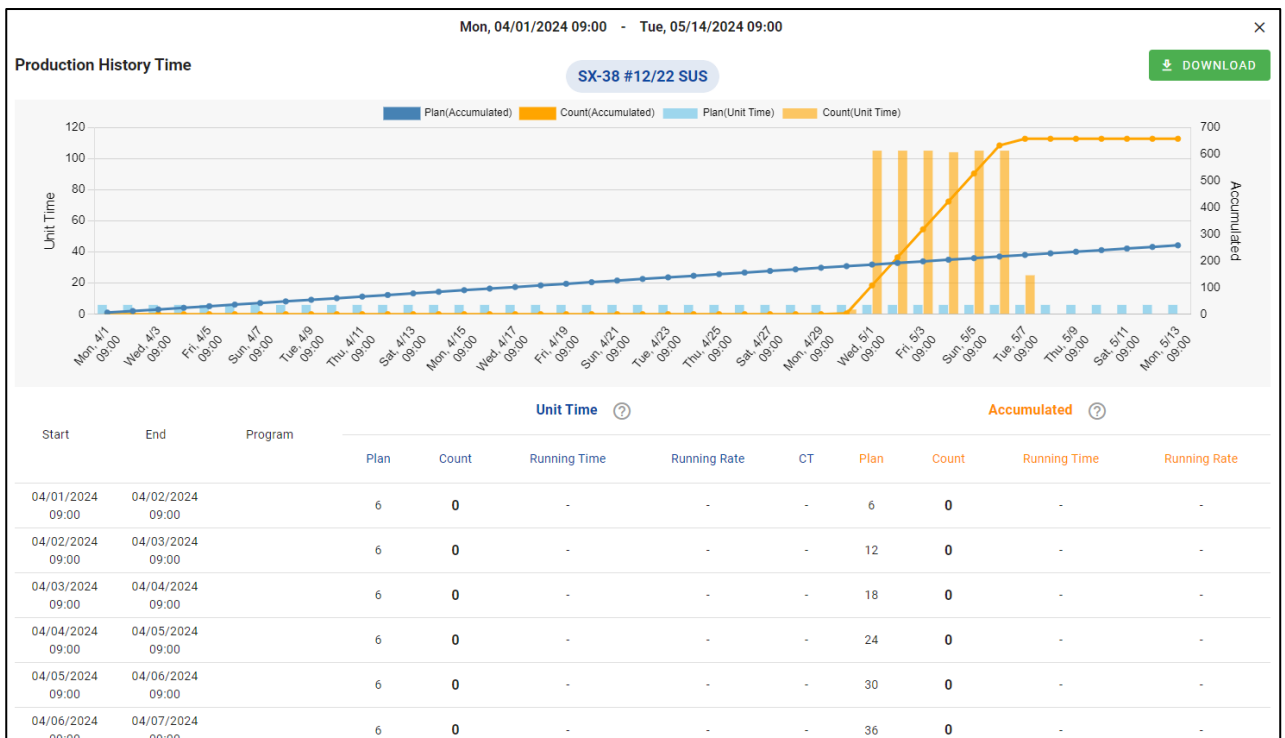
Click “Delete” button in the operation icon of schedule list to delete production schedule.  
Click “DELETE” in the warning dialog to delete item.



**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.

The screenshot shows the 'Operator History' interface. At the top, there are navigation tabs: 'Defective Record' (selected), 'Tool Change Histor...', 'Maintenance History', and 'Daily Report'. There are '+ CREATE' and 'DOWNLOAD' buttons. Below is a table with columns: Machine, DateTime, Defectives, Remarks1, Remarks2, Remarks3, and Operation. The table contains six rows of data. At the bottom right, there is a pagination control showing 'Items per page: 8' and '1-6 of 6'.

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				

### ■ Filter condition panel

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

The filter condition panel includes a 'Filter' icon, a 'Period' section with date pickers set to 'Wed, 05/08/2024' and 'Wed, 05/08/2024', and three group filters: 'Group1 All', 'Group2 All', and '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   +							
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	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.

■ 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

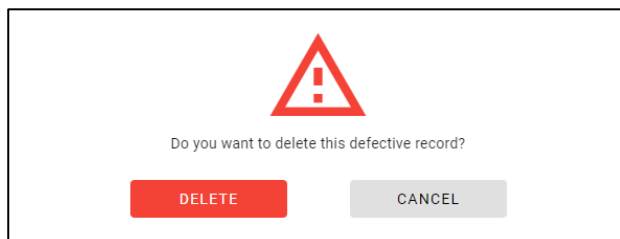
Remarks3

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.



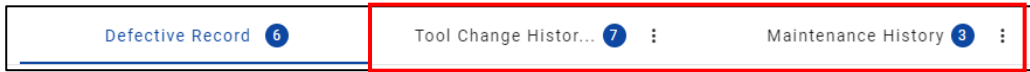
NOTICE · Deleted data cannot be restored.



## 4-8-2 Operator History

Select Operator History tab (\*1) to display Operator History records.

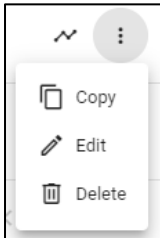
You can customize the format of the record and create or edit record from them.



(\*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. 

■ 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.



**Operator History Page Create**

**TITLE**  
Title  
 Daily Report

---

**INPUT FORMS**

<small>Type</small> Text	▼	<small>Label</small> Name	
<small>Type</small> Text	▼	<small>Label</small> Defective	
<small>Type</small> Text	▼	<small>Label</small> Production	
<small>Type</small> Text	▼	<small>Label</small> Remarks	

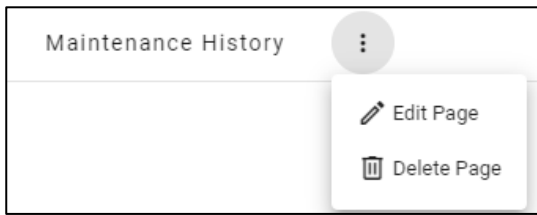
+ ADD ITEM

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 style="border: 1px solid #ccc; padding: 5px; margin: 5px 0; width: fit-content;">担当者 (氏名)</div> <p>When “YES/NO” is selected, a ON/OFF switch is created.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0; width: fit-content;">             Chip Change <span style="float: right;"> <input type="checkbox"/> NO           </span> </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

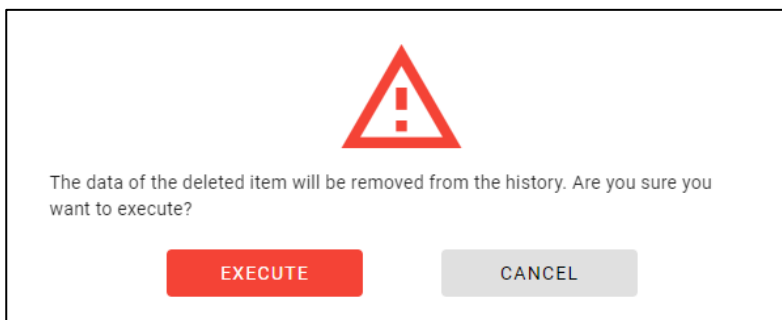
A screenshot of the "Operator History Page Edit" form. The form has a title "TITLE" with a subtitle "Title" and a text input field containing "Maintenance History". Below this is a section titled "INPUT FORMS" with a table of input forms. Each row has a "Type" dropdown, a "Label" text input, and a "Delete" checkbox. The "Support" row has a red minus sign to the left of the "Type" dropdown and a checked "Delete" checkbox. The "Bill" row has a green plus sign to the left of the "Type" dropdown. At the bottom of the form are three buttons: "+ ADD ITEM" (blue), "SUBMIT" (blue), and "CANCEL" (grey).

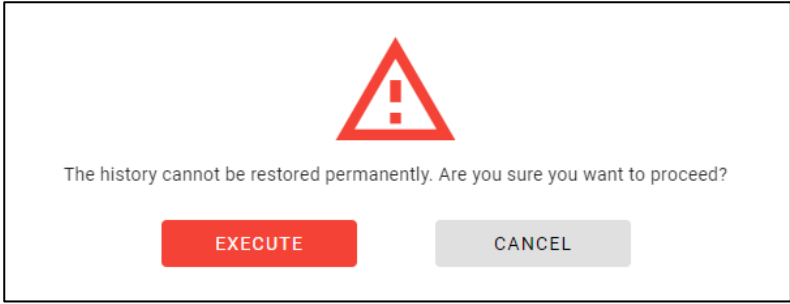
Check “Delete” to delete the input form selected and registered data linked to the form.

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.



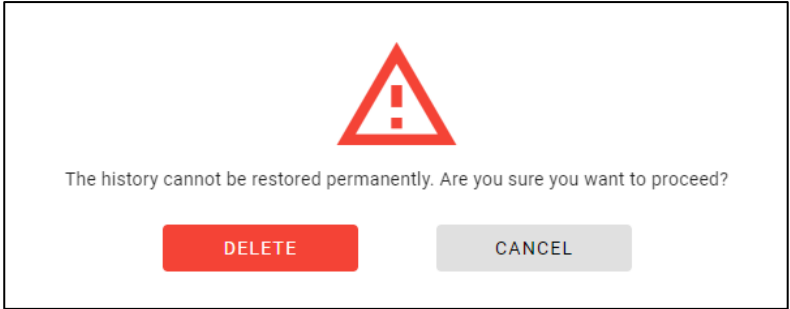
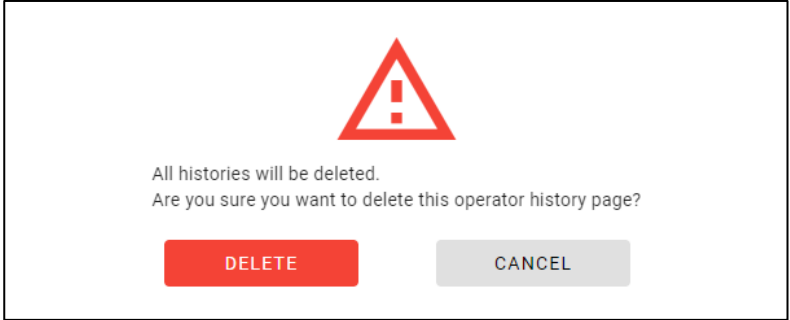


**NOTICE**  • When input form is deleted, all registered data linked to the form are also deleted.  
• Deleted data cannot be restored.

■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.

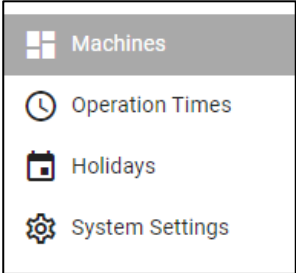
Click “DELETE” on these dialogs to delete Operator History Page and linked data.



**NOTICE**  • Deleted data cannot be restored.

### 4-9 Settings

Select "Settings" from main menu to display Settings menu.



## 4-9-1 Machines

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

Machines										
<input type="text" value="search"/>										<a href="#">DOWNLOAD</a>
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

## 4-9-2 Operation Times

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

Operation Times				<a href="#">DOWNLOAD</a>
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

### 4-9-3 Holidays

Select “Holidays” from setting menu to display Holidays.

**Holidays**

holidays holiday year 2020 DOWNLOAD

Year-Month holidays

<b>Jan. 2020</b>	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
<b>Feb. 2020</b>	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		
<b>Mar. 2020</b>	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		
<b>Apr. 2020</b>	Sat, 4/4	Sun, 4/5	Sat, 4/11	Sun, 4/12	Sat, 4/18	Sun, 4/19	Sat, 4/25	Sun, 4/26			
<b>May. 2020</b>	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	
<b>Jun. 2020</b>	Sat, 6/6	Sun, 6/7	Sat, 6/13	Sun, 6/14	Sat, 6/20	Sun, 6/21	Sat, 6/27	Sun, 6/28			
<b>Jul. 2020</b>	Sat, 7/4	Sun, 7/5	Sat, 7/11	Sat, 7/18	Sun, 7/19	Sat, 7/25	Sun, 7/26				
<b>Aug. 2020</b>	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	
<b>Sep. 2020</b>	Sat, 9/5	Sun, 9/6	Sat, 9/12	Sun, 9/13	Sat, 9/19	Sun, 9/20	Sat, 9/26	Sun, 9/27			
<b>Oct. 2020</b>	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		
<b>Nov. 2020</b>	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		
<b>Dec. 2020</b>	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.



### 4-9-4 System Settings

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

**System Settings**

<p><b>Dark theme</b> Enable dark theme.</p>	<input type="checkbox"/> OFF
<p><b>Date Format</b> Select date format.</p>	<div style="border: 1px solid #ccc; padding: 2px;">month-day-year</div>
<p><b>Show Production History Total Time</b> Show Production History Total Time on history menu.</p>	<input checked="" type="checkbox"/> ON
<p><b>Show Remaining Time</b> Display remaining time instead of completion time in the monitor screen.</p>	<input type="checkbox"/> OFF
<p><b>Always show Today's Progress</b> Display today's progress using machine preset when machine has no schedules in the monitor screen.</p>	<input type="checkbox"/> OFF
<p><b>Emphasize Alarm on Tile View</b> Emphasize alarm tile in the monitor page.</p>	<input type="checkbox"/> OFF
<p><b>Show Group Count</b> Show the total count for group1 or group2. (None to hide)</p>	<div style="border: 1px solid #ccc; padding: 2px;">None</div>
<p><b>Remaining Time Threshold 1</b> Threshold for coloring remaining time in the monitor screen ( let 1 &lt; 2 &lt; 3 ).</p>	<div style="border: 1px solid #ccc; padding: 2px; width: 60px; text-align: center;">4</div> Hours
<p><b>Remaining Time Threshold 2</b> Threshold for coloring remaining time in the monitor screen ( let 1 &lt; 2 &lt; 3 ).</p>	<div style="border: 1px solid #ccc; padding: 2px; width: 60px; text-align: center;">12</div> Hours
<p><b>Remaining Time Threshold 3</b> Threshold for coloring remaining time in the monitor screen ( let 1 &lt; 2 &lt; 3 ).</p>	<div style="border: 1px solid #ccc; padding: 2px; width: 60px; text-align: center;">24</div> Hours

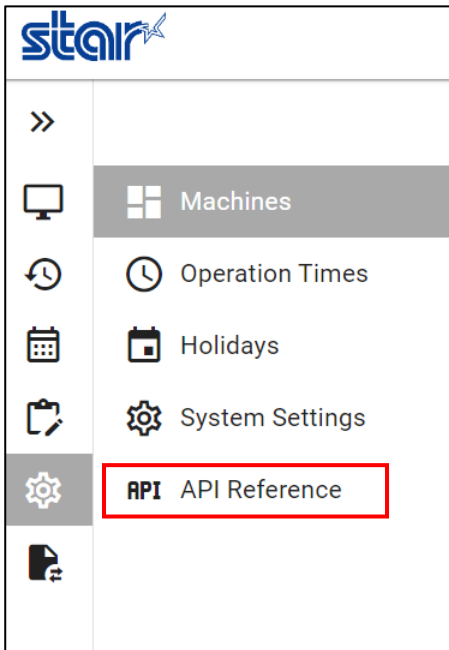
SMOOSS-i©2016-2024 STAR MICRONICS CO., LTD.

Items	Contents
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 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”.
Save	Save and apply set data

## 4-10 Web API

By using the Web API, it is possible to obtain various data from external applications. Select "API Reference" from the settings menu, the API documentation will be displayed. Refer to the API documentation for instructions on how to use the API.



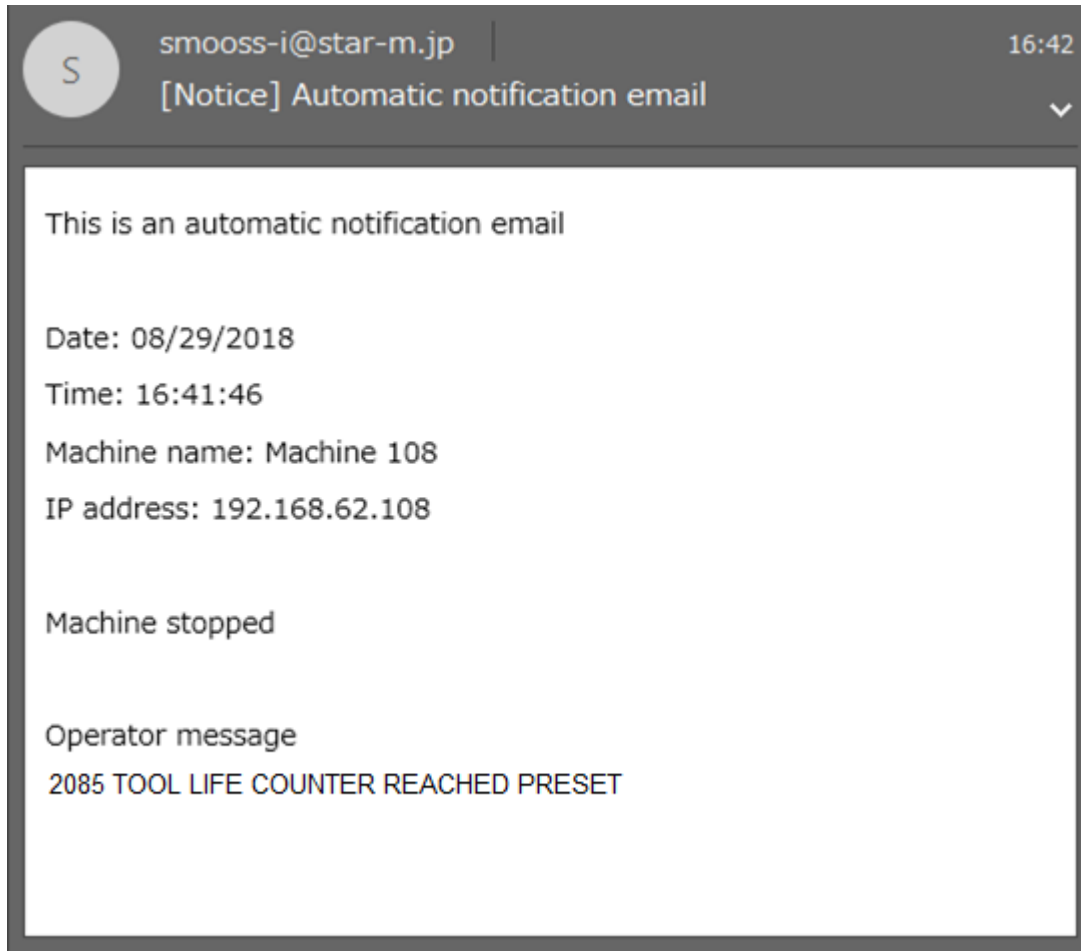
**CHAPTER 5**  
**E-mail notification**

## 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 sever 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.

Fore back-up  For restoring 



## 6-2 Backup procedure

NOTICE

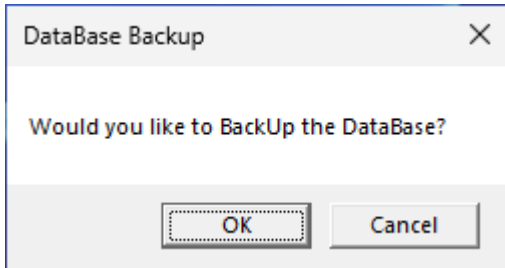


• Be sure to finish Collector before back-up.

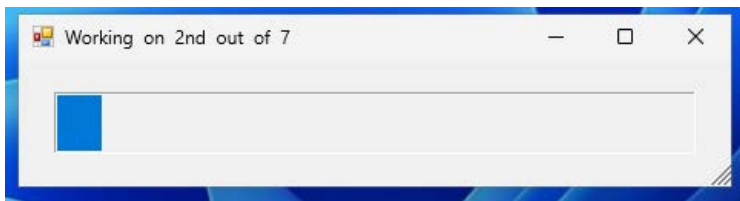
1) Double-click the icon on the desktop.



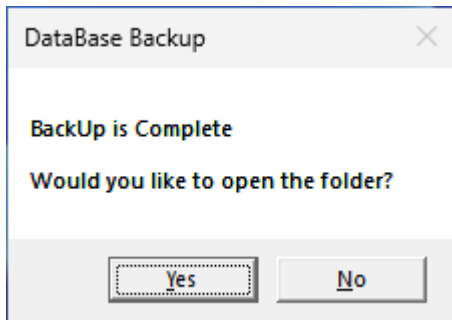
Following screen displays then click [OK].



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

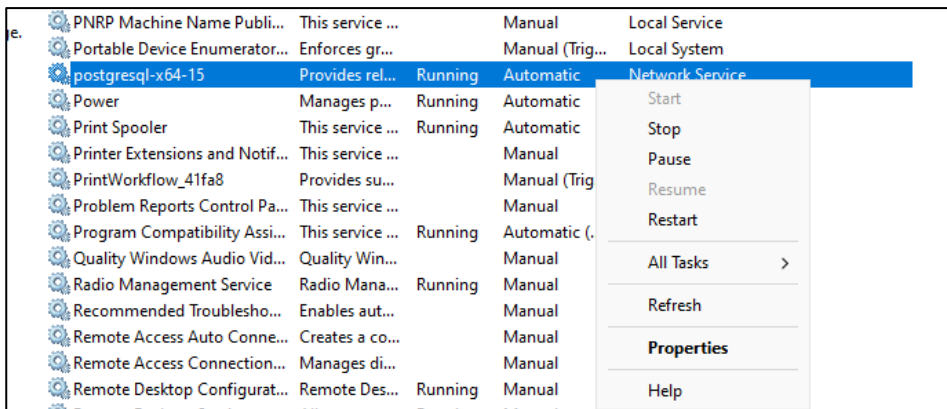
### NOTICE




- 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

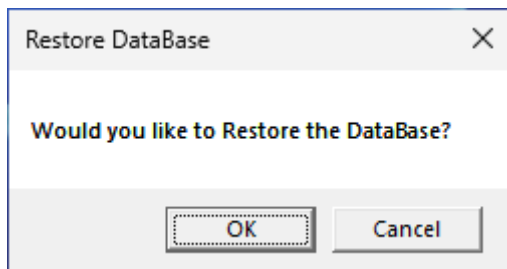
### Preparation (Clear DB Connections)

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

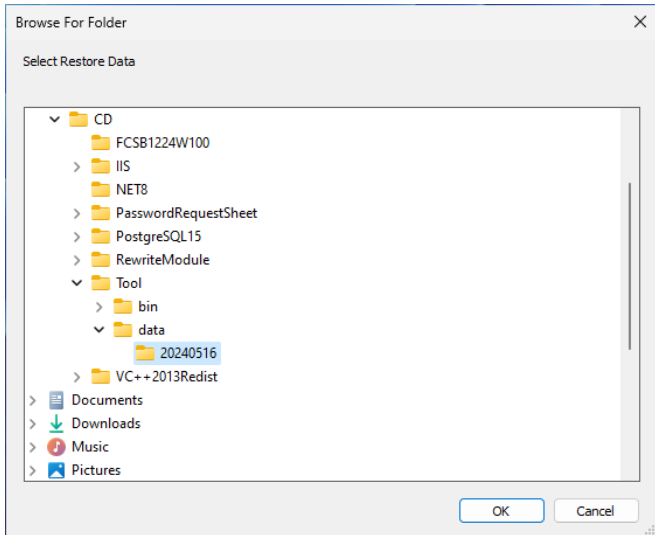


### Restoration

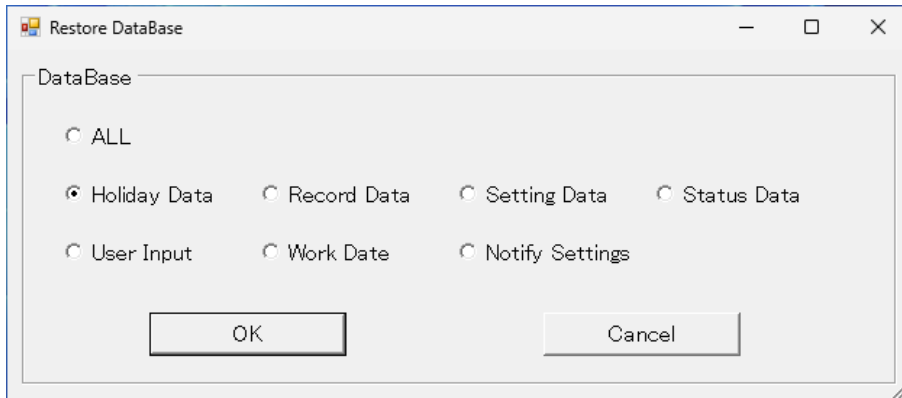
- 1) Double-click the icon for restoration  on the desk top.
- 2) Following screen displays then click [OK].



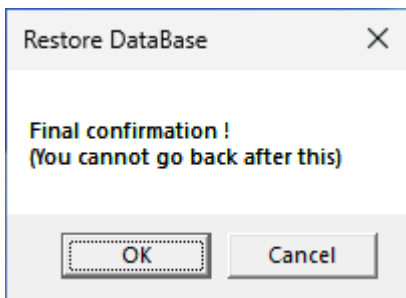
- 3) Specify the data to restore. Select the folder name where back-up data saved.



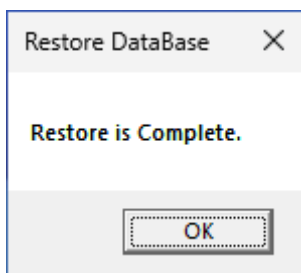
4) Select the database to restore. Enter the check then click [OK].



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.

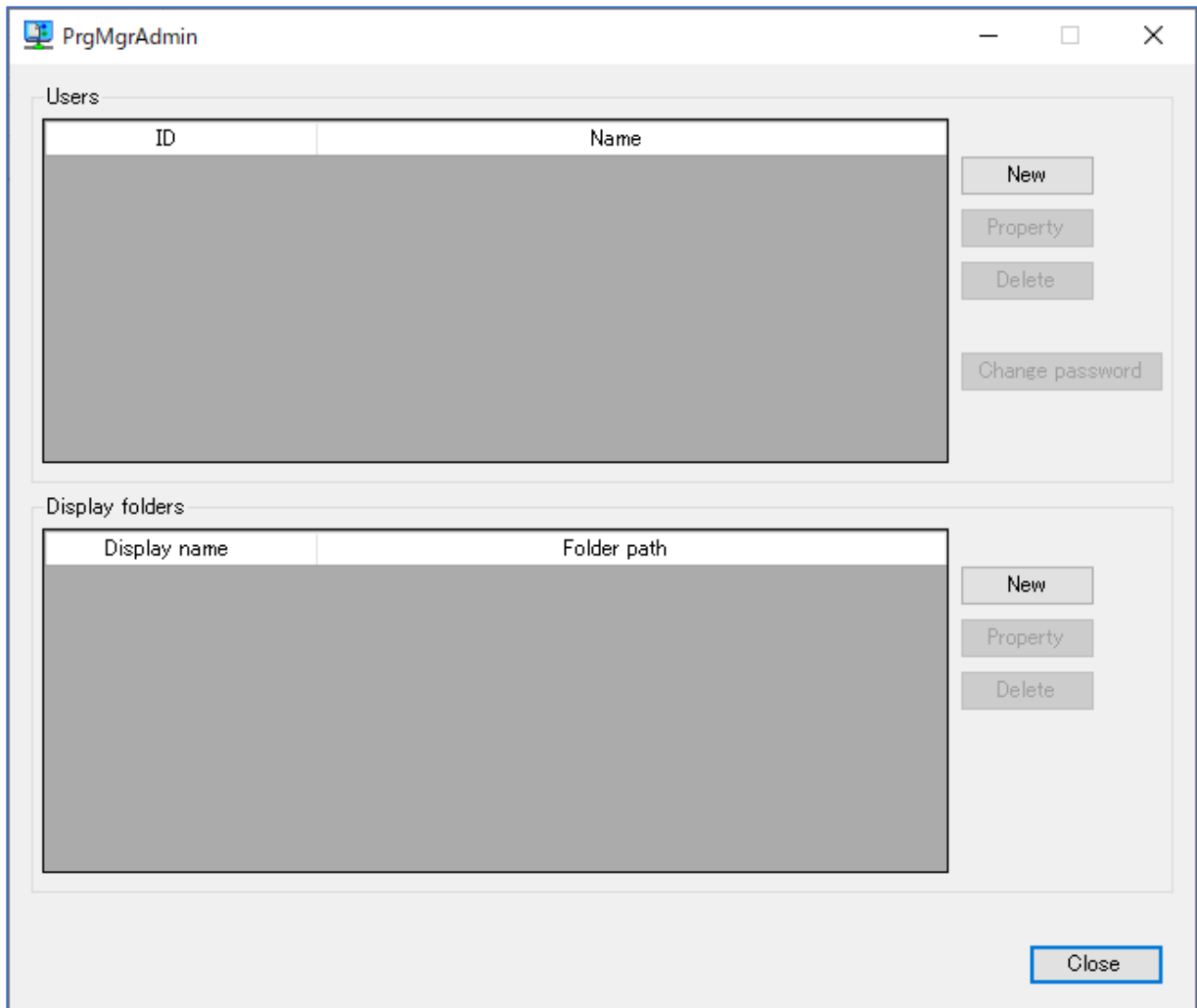
For windows 11, select the arrow next to [All Apps].

2) Click [Star Micronics SMOOSS-i].

3) Click [PrgMgrAdmin] to start PrgMgrAdmin.

## 7-2 Main Screen

When PrgMgrAdmin starts, following main screen displays.



On the main screen, you can see the list of user settings and data folder settings.

The area enclosed by the "Users" frame is the user settings area, and the area enclosed by the "Display folders" frame is the folder display settings area.

### 7-3 User settings



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

#### Button and function

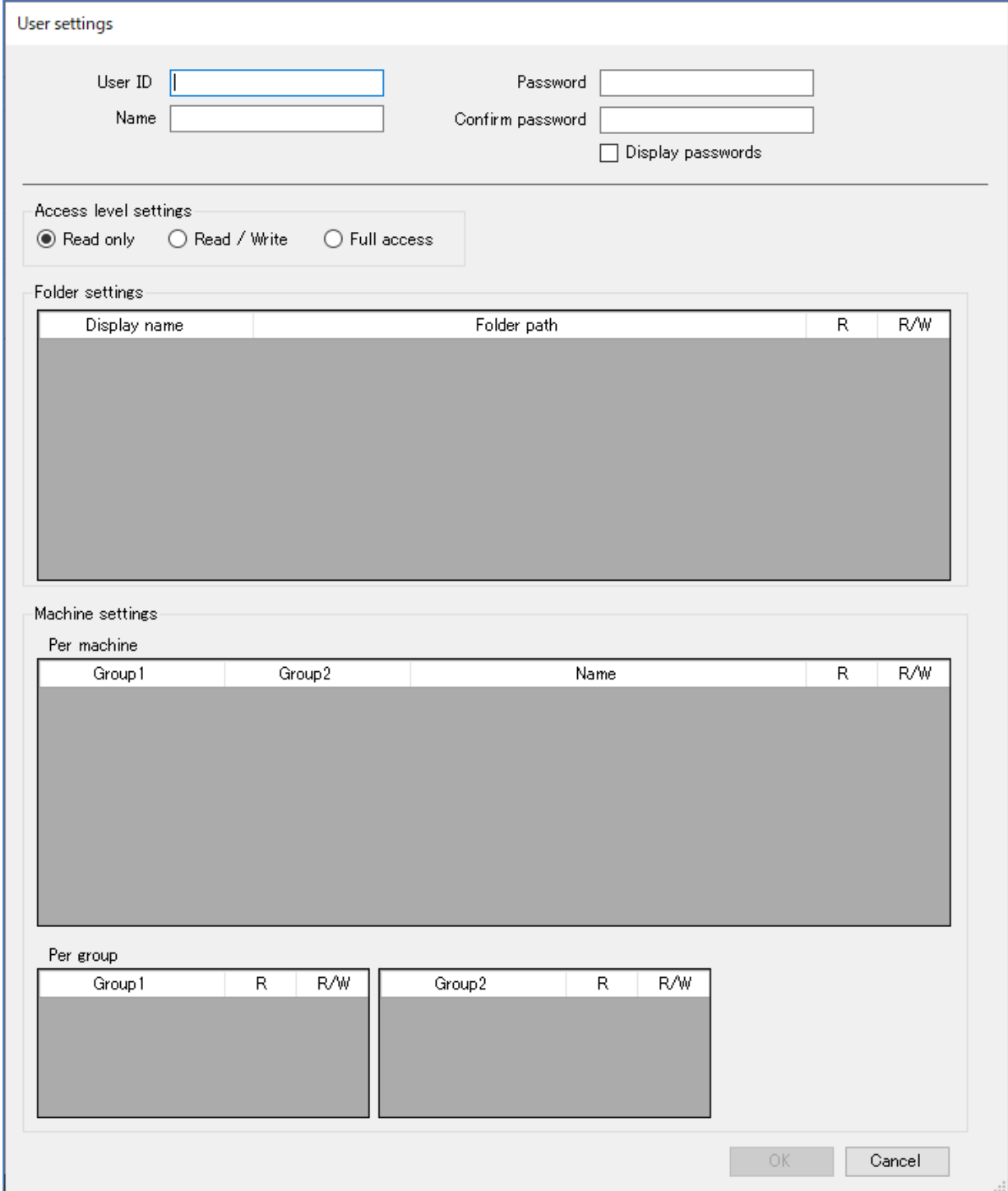
Items	Contents	Chapter
New	Create a new user.	7-3-1
Property	Confirm or change user settings.	7-3-2
Delete	Delete the user.	7-3-3
Change password	Change the user's password.	7-3-4

### 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).



The dialog box is titled "User settings" and is divided into several sections:

- Basic settings:** Includes input fields for "User ID", "Name", "Password", and "Confirm password". There is a checkbox for "Display passwords".
- Access level settings:** A group box containing three radio buttons: "Read only" (selected), "Read / Write", and "Full access".
- Folder settings:** A table with columns: "Display name", "Folder path", "R", and "R/W". The table body is currently empty.
- Machine settings:**
  - Per machine:** A table with columns: "Group1", "Group2", "Name", "R", and "R/W". The table body is empty.
  - Per group:** Two separate tables. The first has columns "Group1", "R", and "R/W". The second has columns "Group2", "R", and "R/W". Both table bodies are empty.


At the bottom right, there are "OK" and "Cancel" buttons.




**a) Basic settings**

User ID	<input type="text"/>	Password	<input type="password"/>
Name	<input type="text"/>	Confirm password	<input type="password"/>
		<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.
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	R	R/W
NC_Prg	C:\ncprogram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SX-88	C:\NC\SX-88	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SB-20RG	C:\NC\SB20RG	<input type="checkbox"/>	<input type="checkbox"/>

readable

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"/>

readable

readable and writable

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	Group2
PartsAAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Line1
PartsBBB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Line2
			Line3

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

Name

---

**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"/>

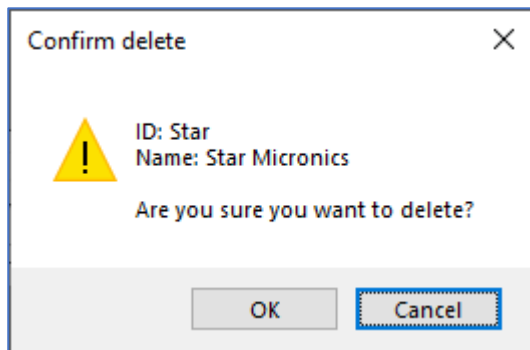
Per group

Group1	R	R/W	Group2	R	R/W
PartsAAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Line1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PartsBBB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Line2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Line3	<input type="checkbox"/>	<input type="checkbox"/>

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.

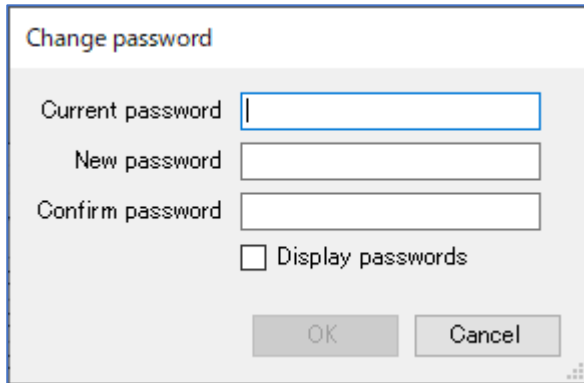


Click the "OK" button to delete.

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



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

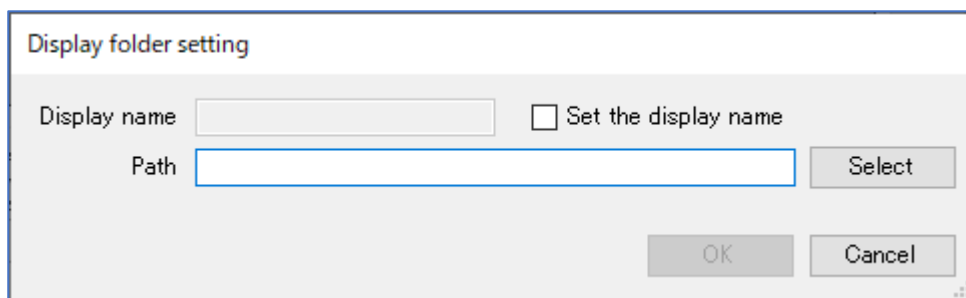
Items	Contents	Chapter
New	Create a new display name.	7-4-1
Property	Confirm or change the display name setting.	7-4-2
Delete	Delete the display name setting.	7-4-3

**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 a light gray background. At the top left, the title "Display folder setting" is displayed. Below the title, there are two text 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 "Select" button. At the bottom of the dialog, there 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.

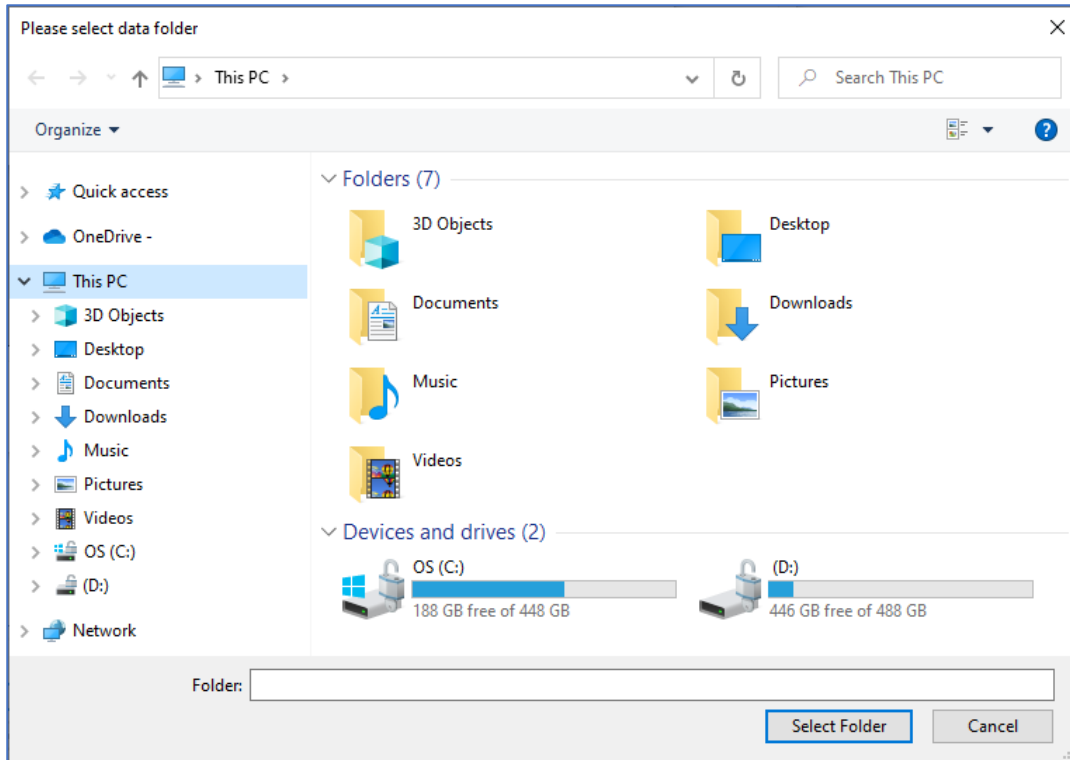
After entering the data, click the "OK" button to display the set data in the list.

#### 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.

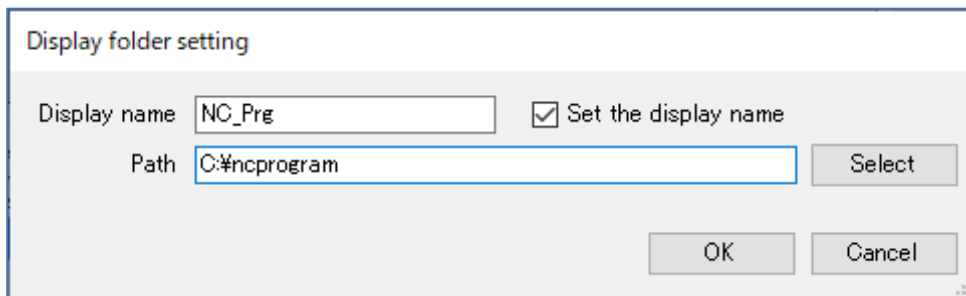
Click the "Select" button on the setting screen to display the following screen.



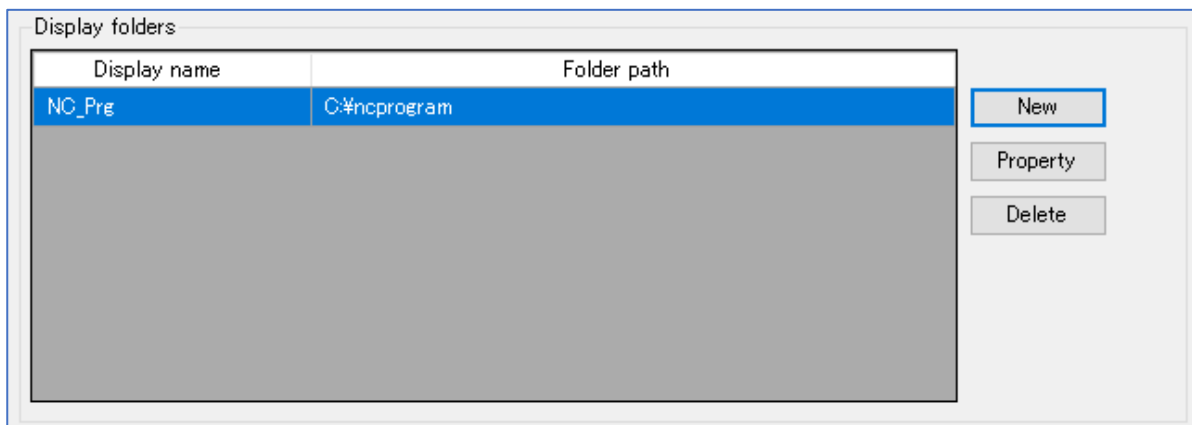
Select the folder you want to set and click the "Select Folder" button to enter the path.

(Setting example)

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

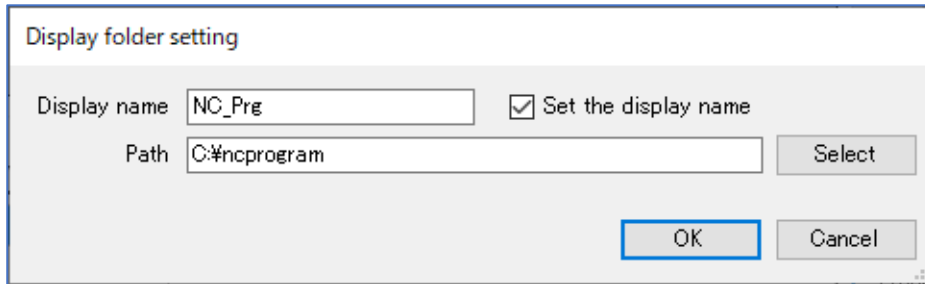


The list screen looks like this.



### 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.

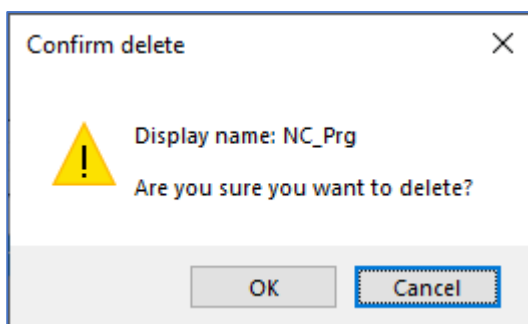
#### NOTICE



- 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




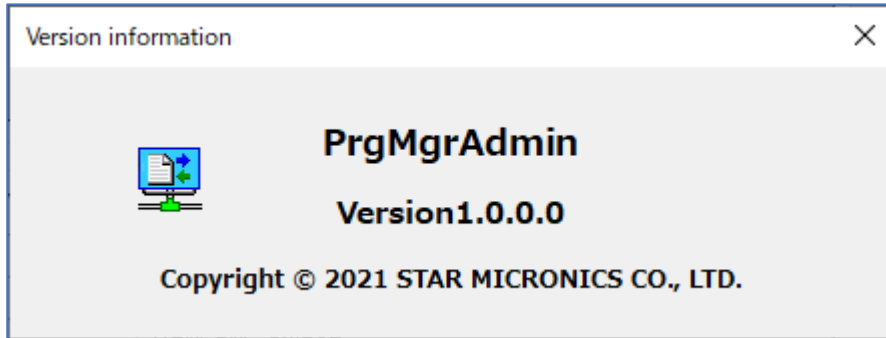
- Only the settings for display will be deleted. The data in the folder will not be deleted.

## 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.

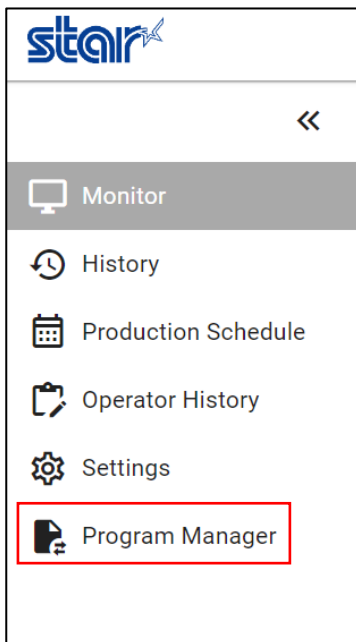
- a) Following address is top page of web application, Program Manager.

[http://\\*\\*\\*\\*\\*/ProgramManager/](http://*****/ProgramManager/) ...Enter the server IP address to \*

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

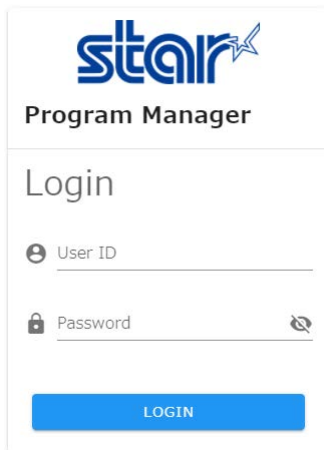
(refer to section 8-2).

- 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.



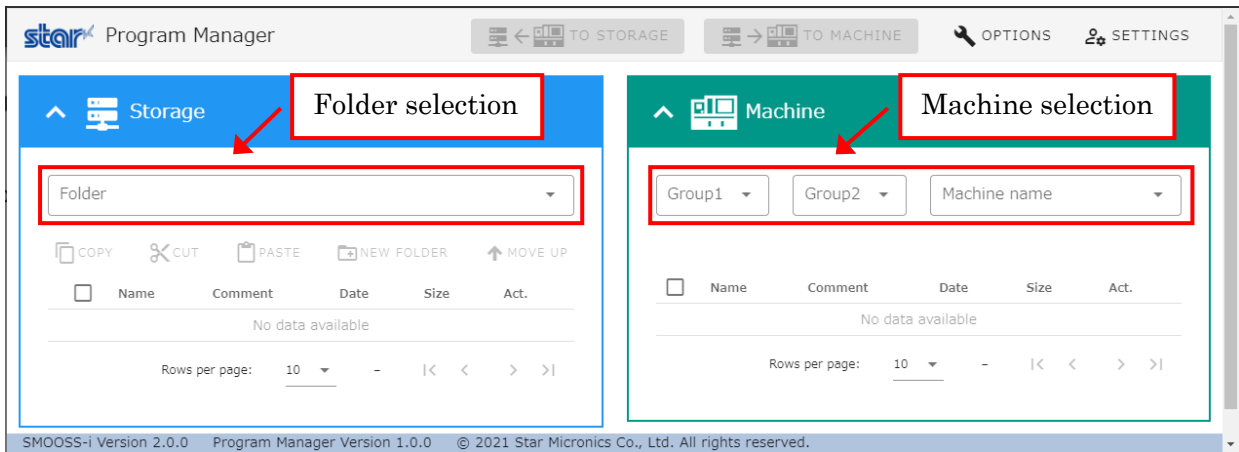
The screenshot shows a login interface for 'STAR Program Manager'. At the top left is the 'star' logo in blue. Below it, the text 'Program Manager' is displayed. The main heading is 'Login'. There are two input fields: 'User ID' with a person icon on the left and a password field with a lock icon on the left and an eye icon on the right to toggle visibility. At the bottom is a blue button labeled 'LOGIN'.

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



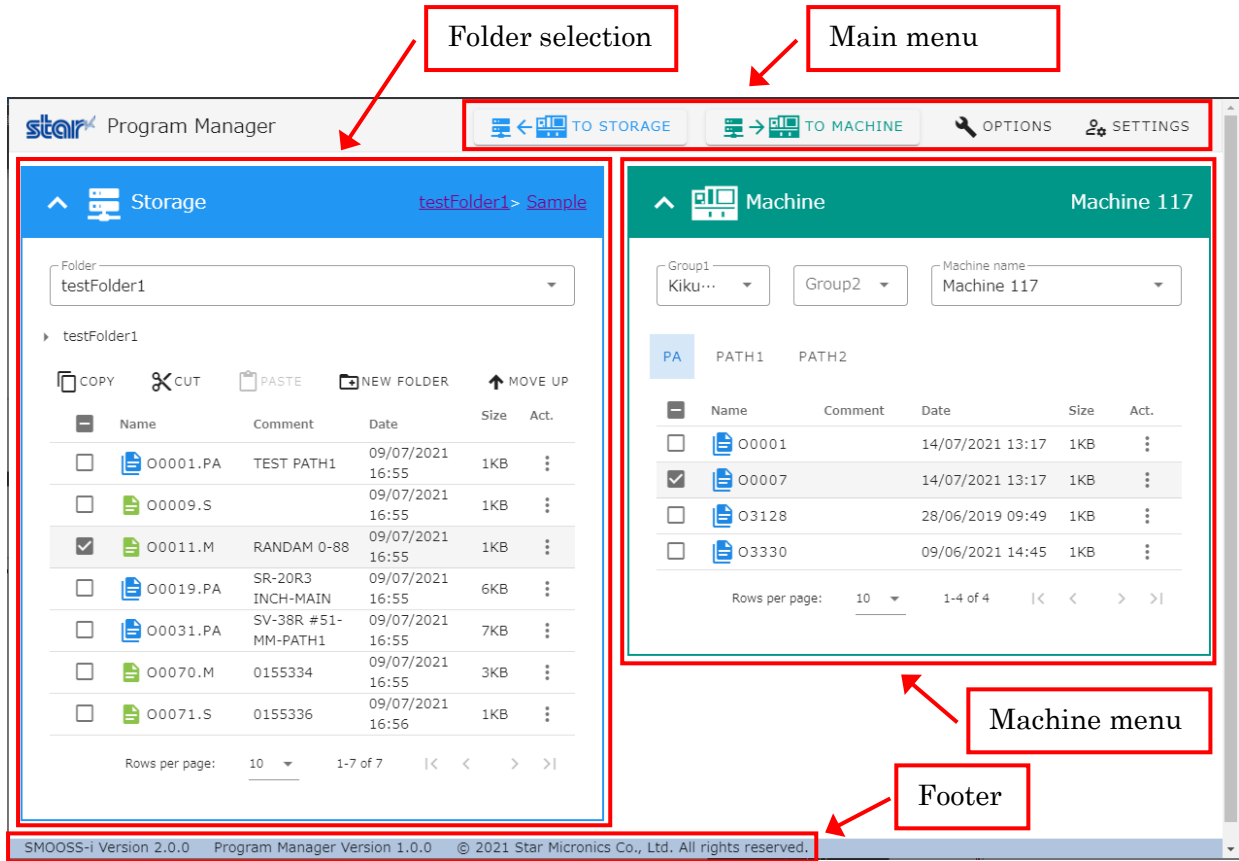
### 8-3 Main Screen

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]

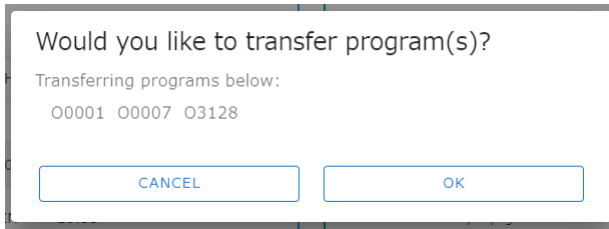
Sends the selected NC program from the NC program list on the machine to the storage.

[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.



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	⋮

A red box highlights the first row of the table, and a red arrow points from a box labeled "Newly transferred file" to the file name "O0001 (2).PA".

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

A dialog box titled "Program Data All Input/Output Options". It contains a "Save" section with a "File Name" field containing "O0001" and ".PD". Below this is a "Transfer Options" section with four checked checkboxes: "Sub Program", "Tool unit", "Geometry offset", and "Wear offset". There are two radio buttons: "(R, T)" (selected) and "(X, Y, Z, R, T)". At the bottom is a "Note" section with a text area containing "Write a note in 20 words or less. Alphanumeric and special..." and a character count "0 / 20". At the very bottom are "CANCEL" and "TRANSFER" buttons.

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.

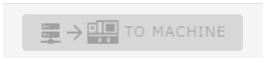
Also, file notes can be entered using up to 20 alphanumeric characters and symbols.

- [TO MACHINE]

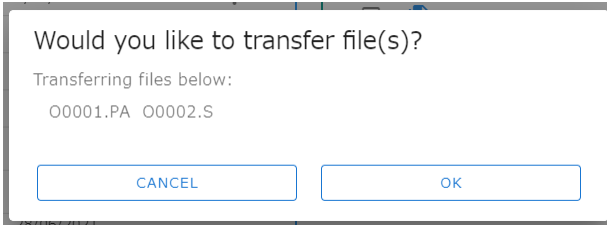
Sends the selected file from the list of files in the storage to the machine.

[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:

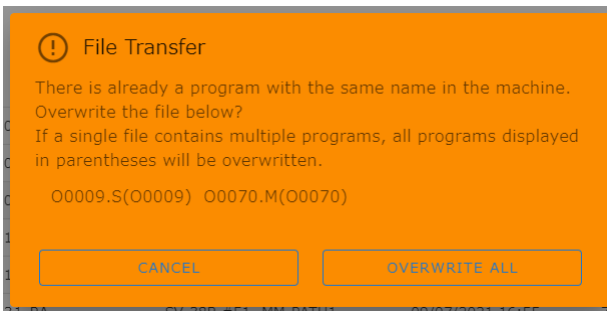


Click [TO MACHINE] button to display the transfer confirmation dialog.

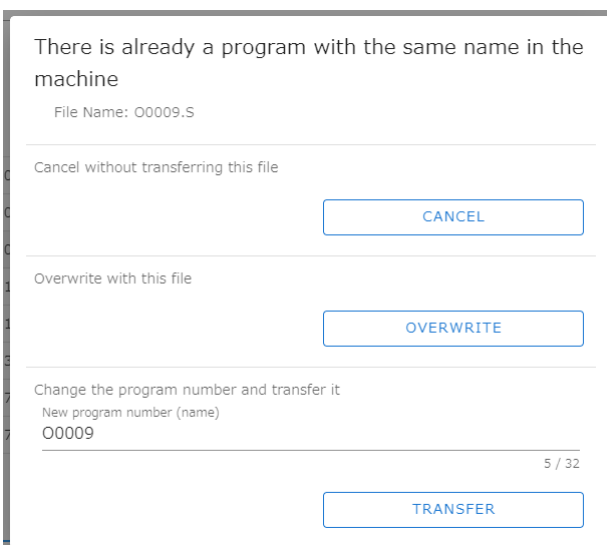


Click [CANCEL] to return to the main screen without transferring the data, or click [OK] to transfer the file.

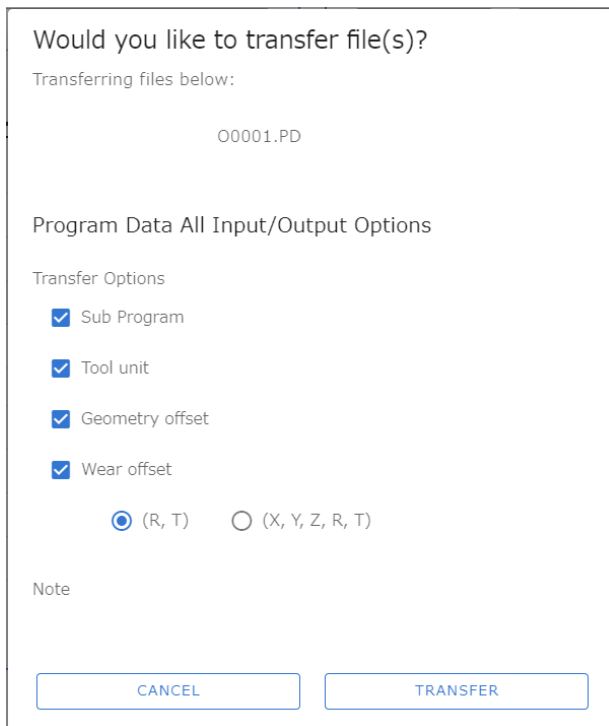
If NC program with the same name already exists on the machine, a confirmation dialog for overwrite transfer will be displayed.



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.



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

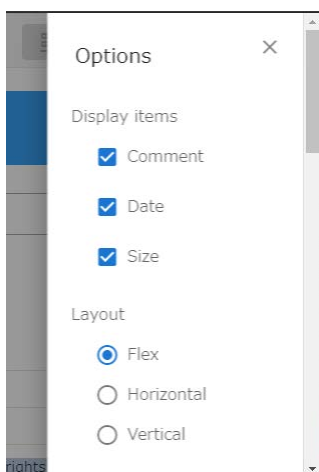
**NOTICE**



- 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.



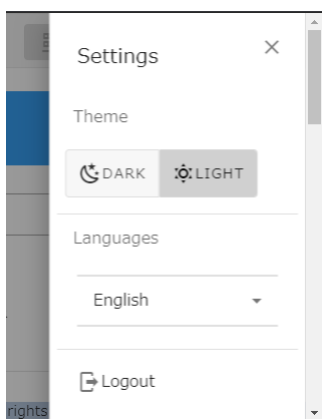
If you uncheck the items in [Display items], the unchecked items will be hidden from the columns of the list displayed in storage and machine.

In the layout options, you can set the following.

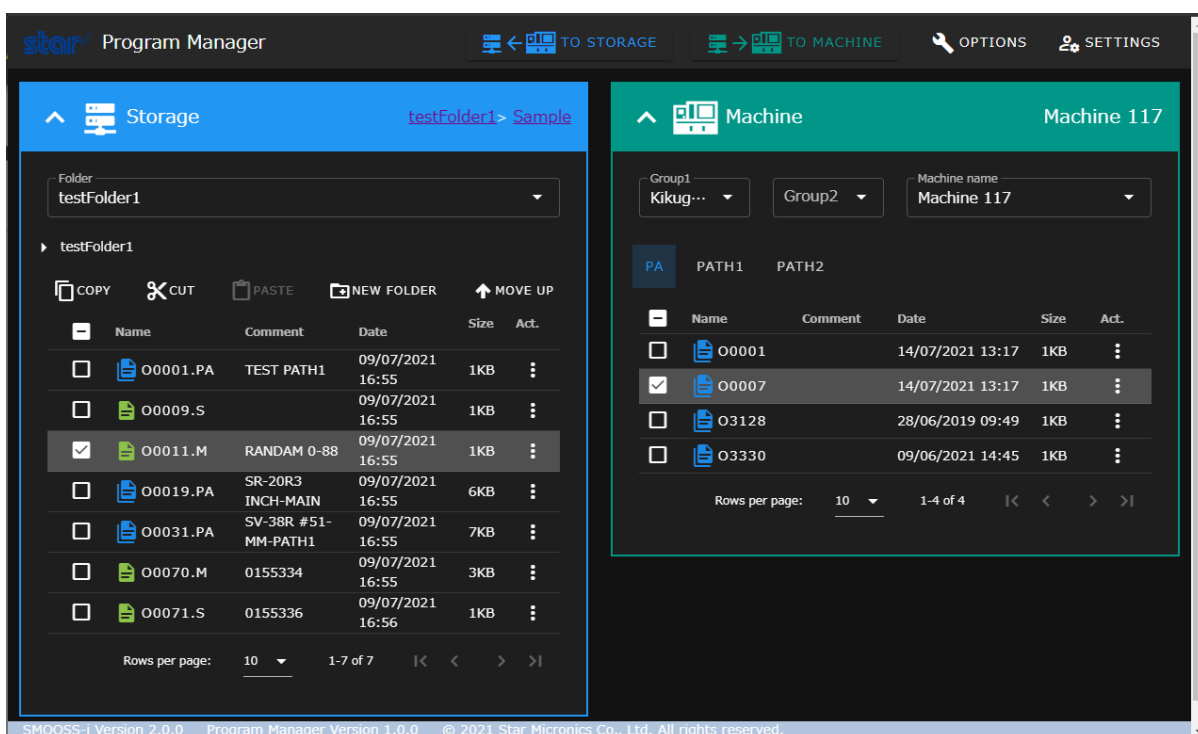
Item	Content
Flex	When the width of the screen is wide, storage and machines are displayed side by side, and when the width of the screen is narrow, they are displayed vertically.
Horizontal	Regardless of the width of the screen, the storage and the machine will always be displayed side by side.
Vertical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

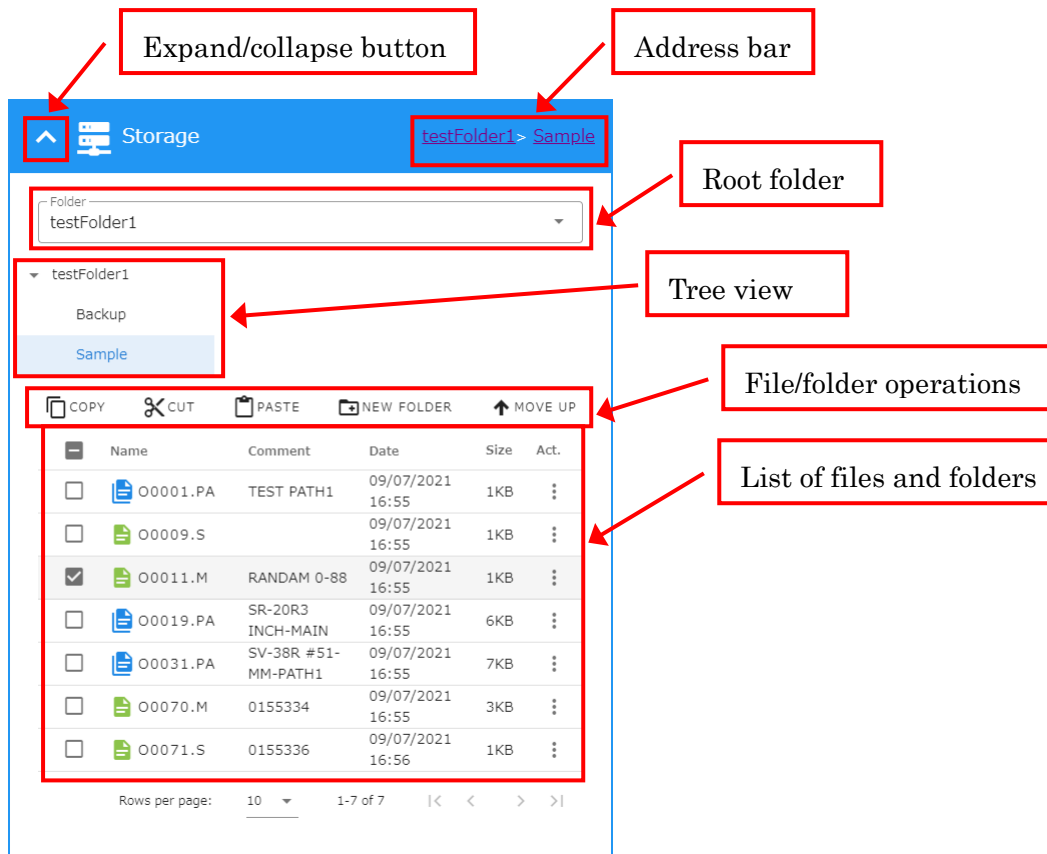


When the theme is set to DARK, the main screen will be displayed in black tones.



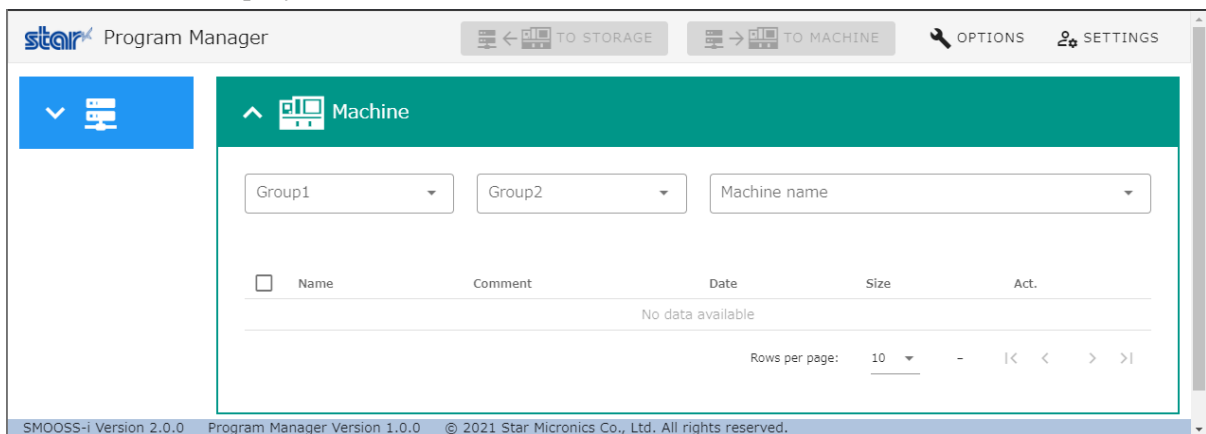
## 8-4-2 Storage Menu

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.

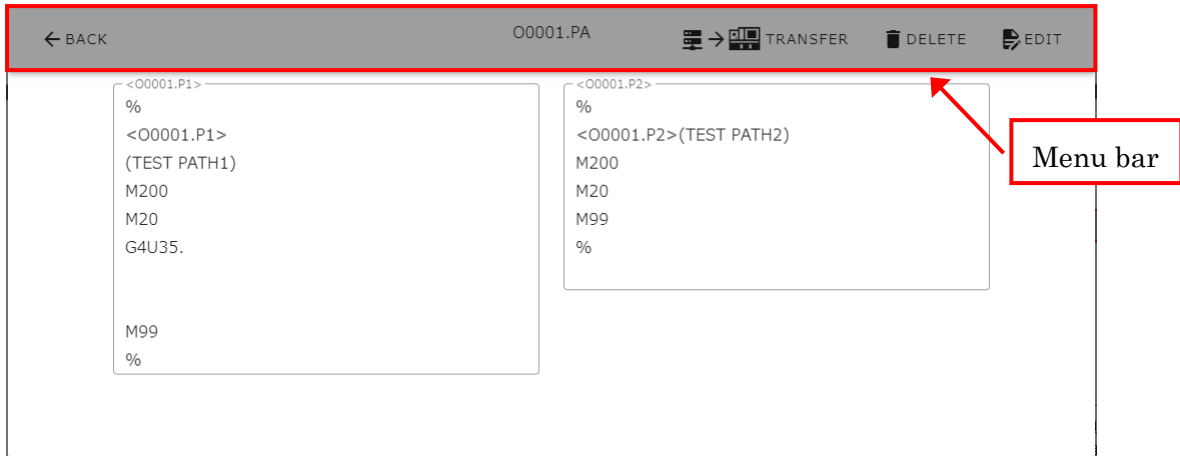
- List of files and folders

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.

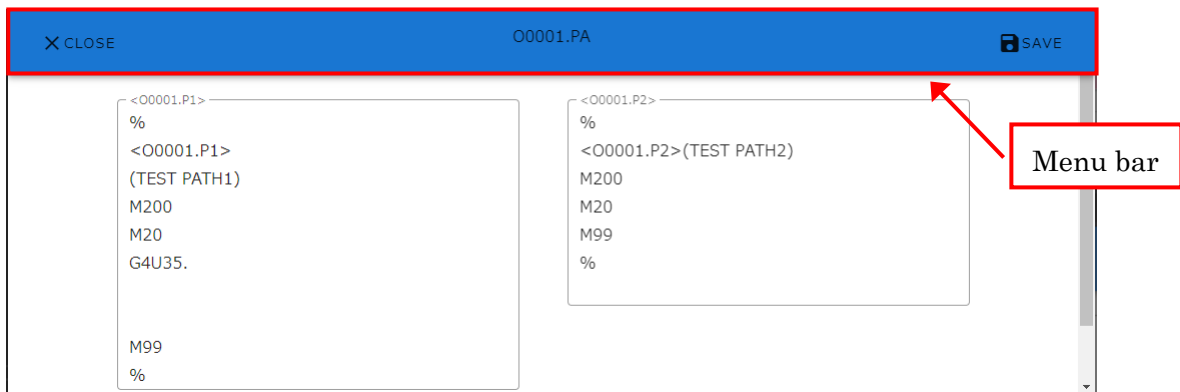


Click [BACK] button on the left side of the menu bar to return to the main screen.

[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.

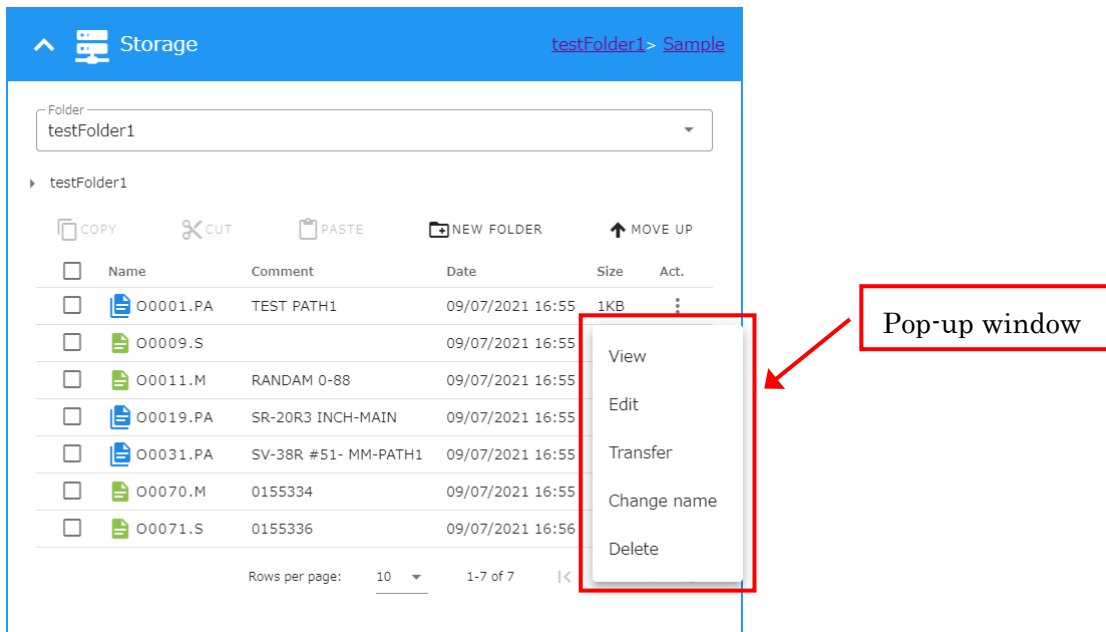


Click [CLOSE] button on the left side of the menu bar to return to the previous screen.

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.

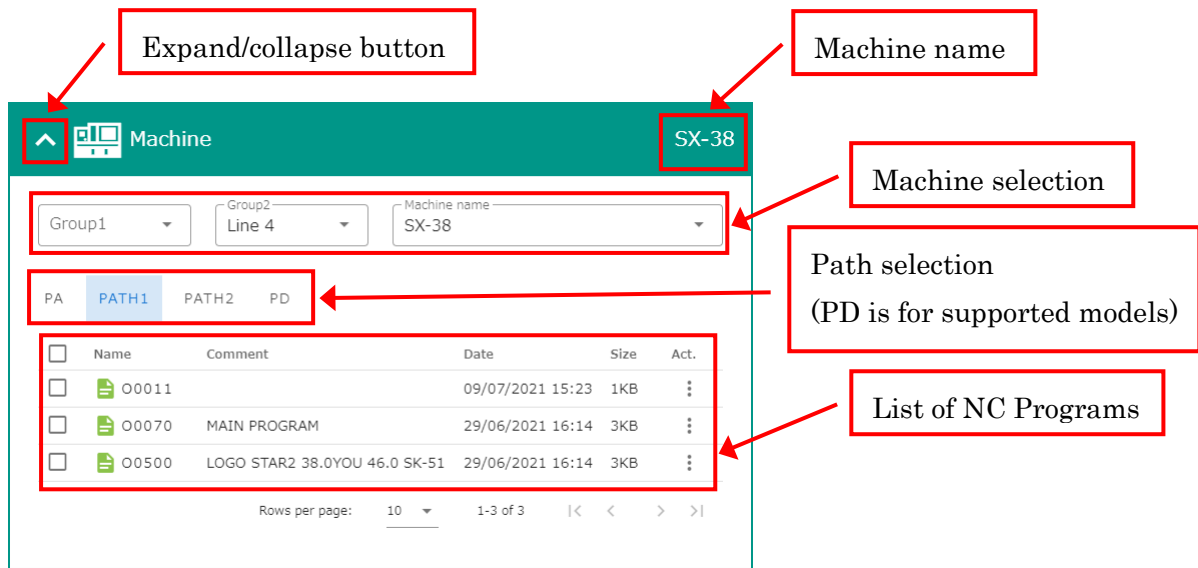


Click [Change name] to rename a file or folder.

The screenshot shows a "Rename" dialog box with a title bar. It contains two text input fields: "Old Name :" with the value "O0001.PA" and "New Name". At the bottom, there are two buttons: "CANCEL" and "RENAME".

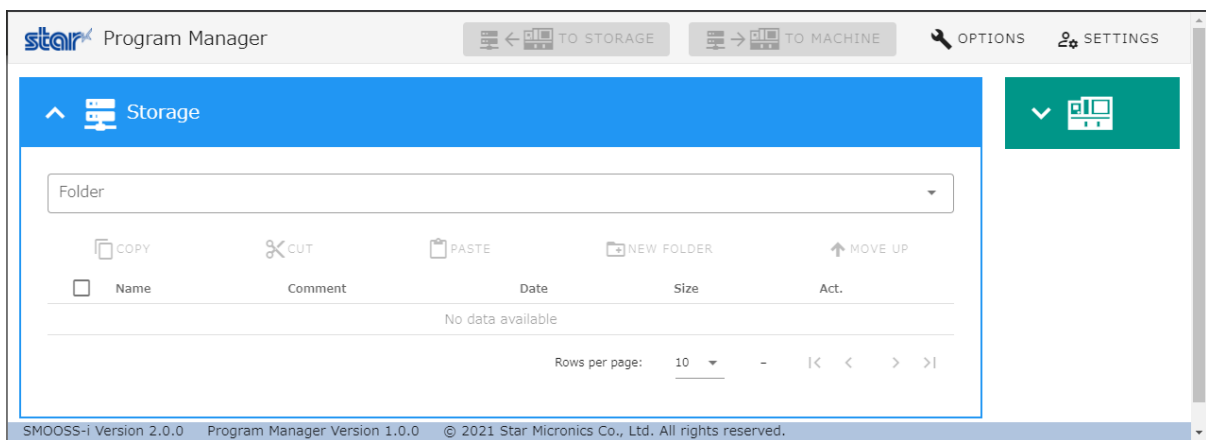
### 8-4-3 Machine Menu

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.

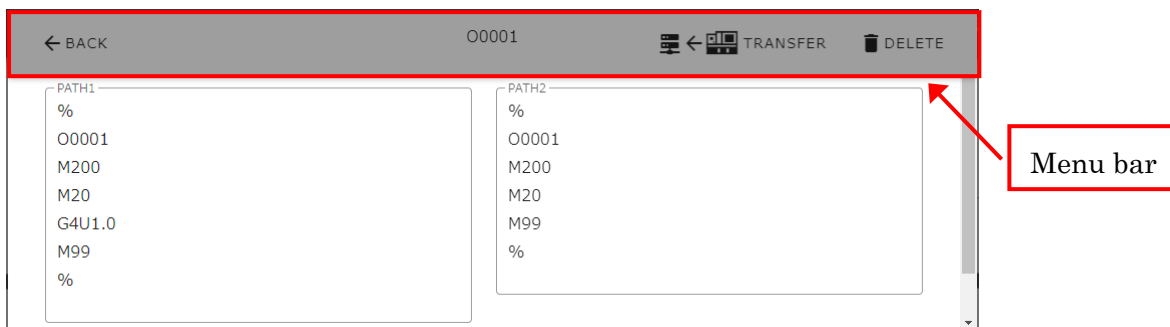
- Path selection

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.

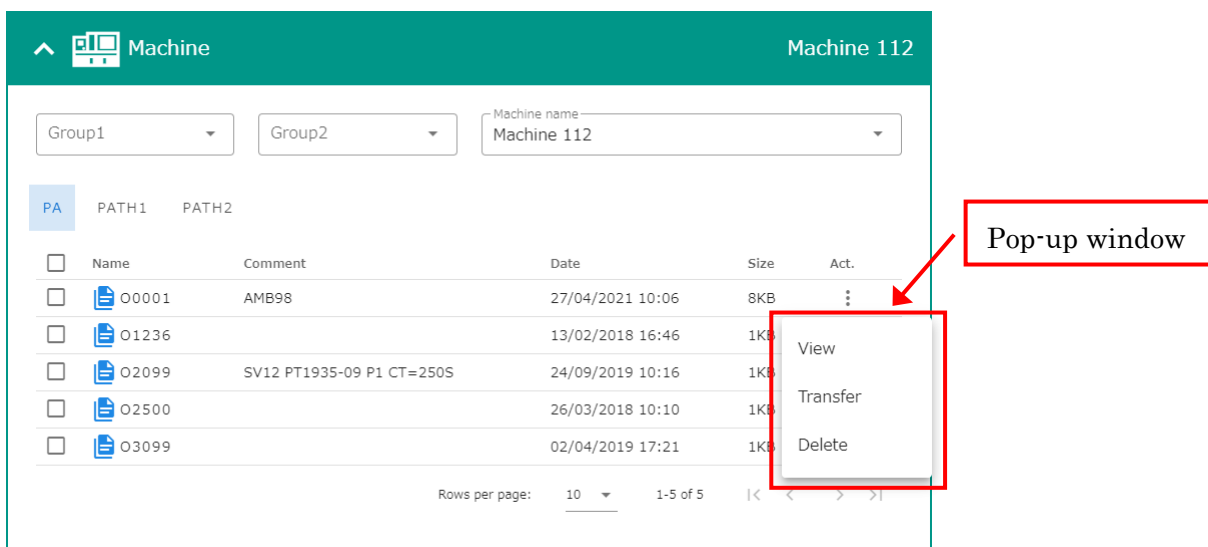


Click [BACK] button on the left side of the menu bar to return to the main screen.

[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 .

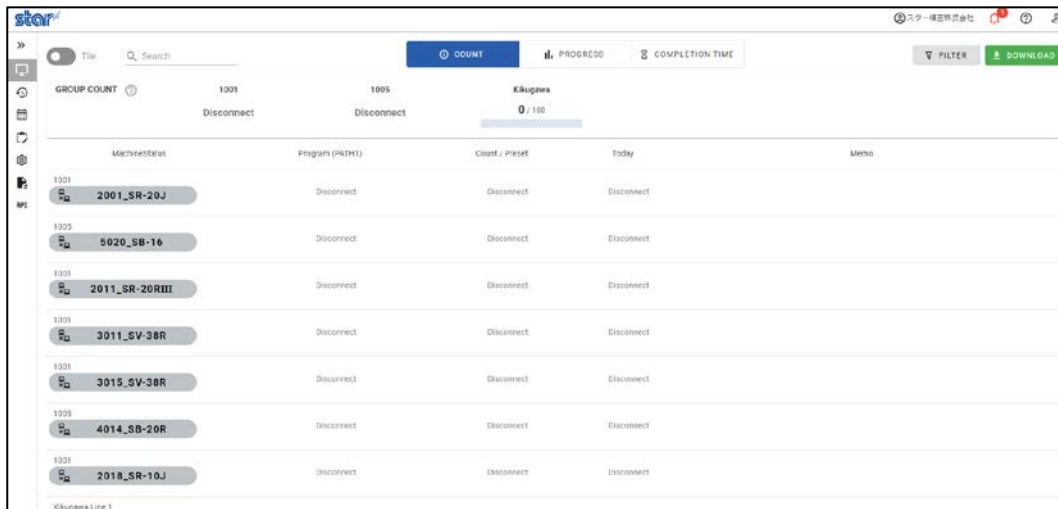
# **CHAPTER 9**

# **Trouble shooting**

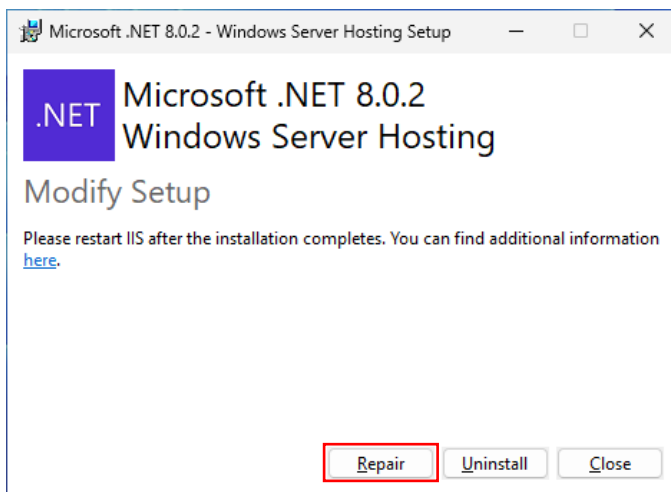
## 9 Trouble shooting

- 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.

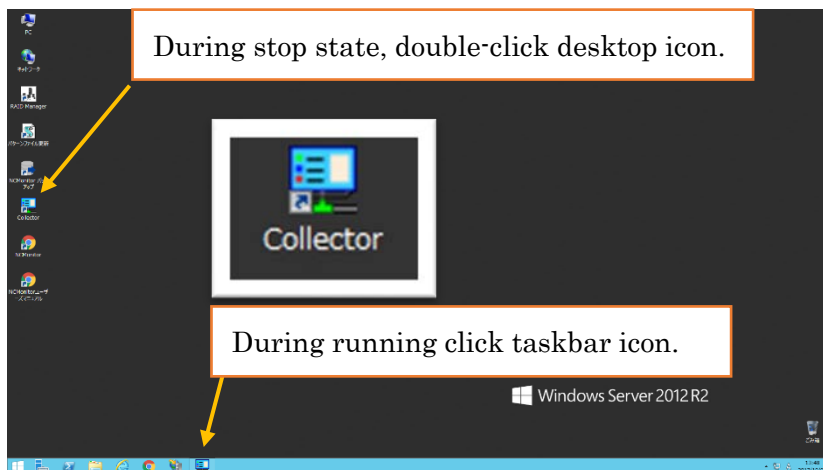
The screenshot shows the 'ster' software interface. At the top, there are tabs for 'COUNT', 'PROGRESS', and 'COMPLETION TIME'. Below the tabs, there are filters for 'GROUP COUNT' (1001, 1005, Kikugawa) and 'Disconnect' status. The main table lists machines with columns for 'MachineStatus', 'Program (PATH)',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

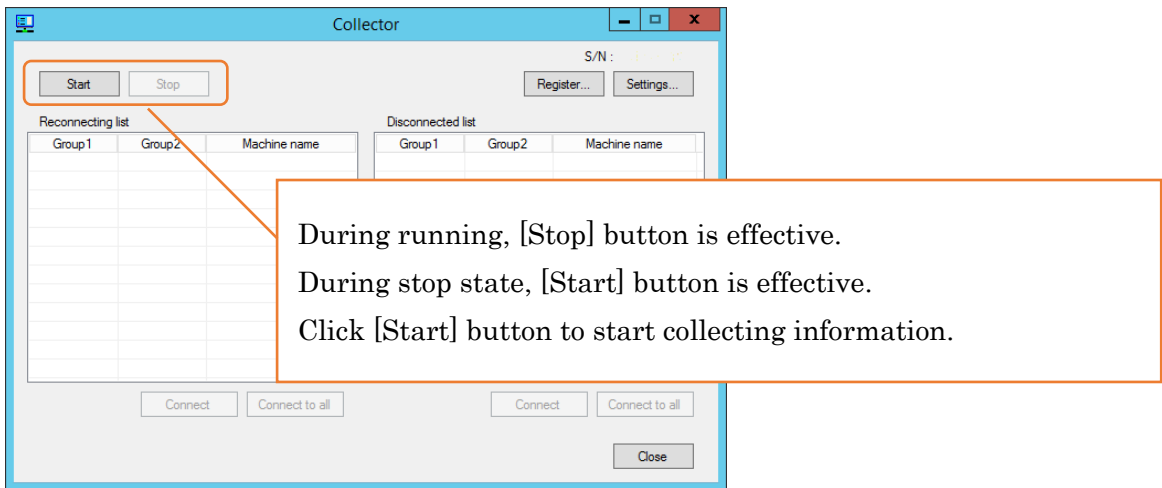
1) Start Collector.

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

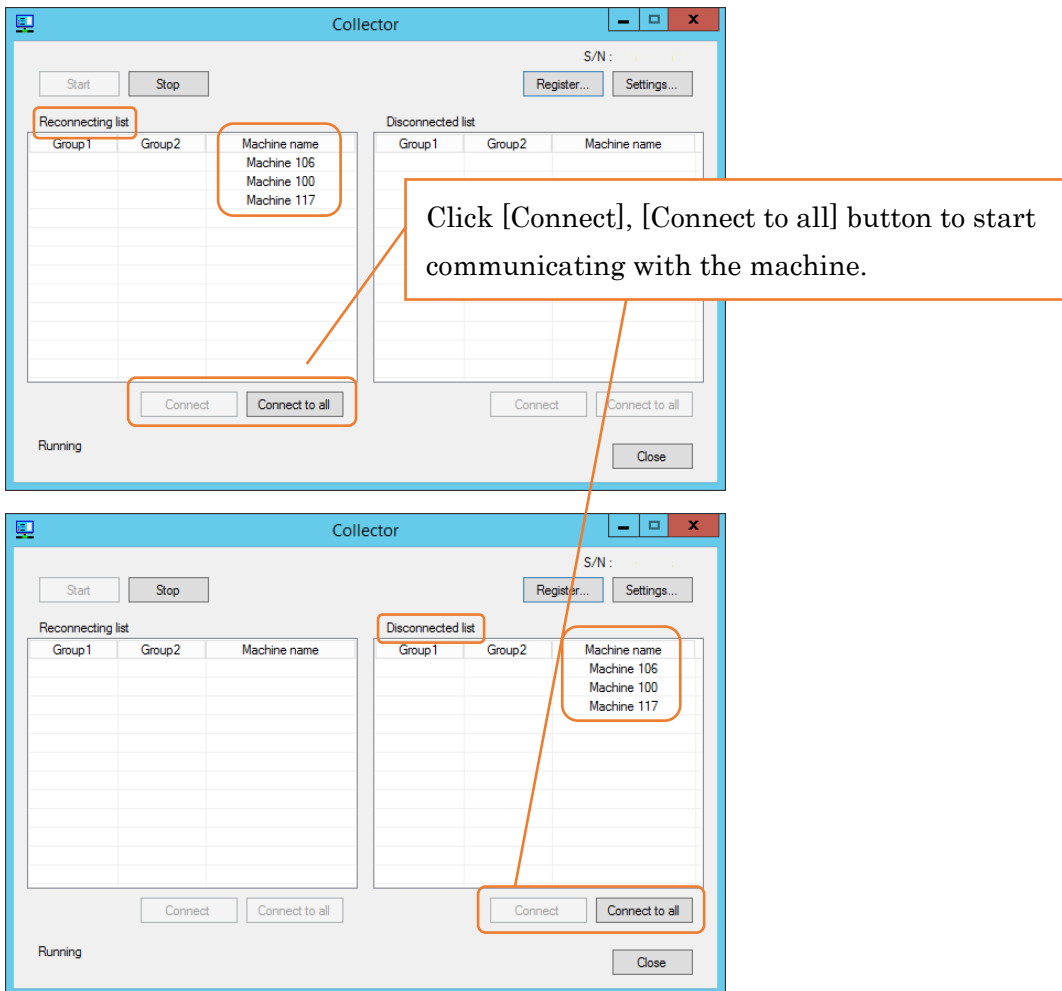
When Collector is not running, double-click the [Collector] icon  of desktop to start.



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



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.



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**

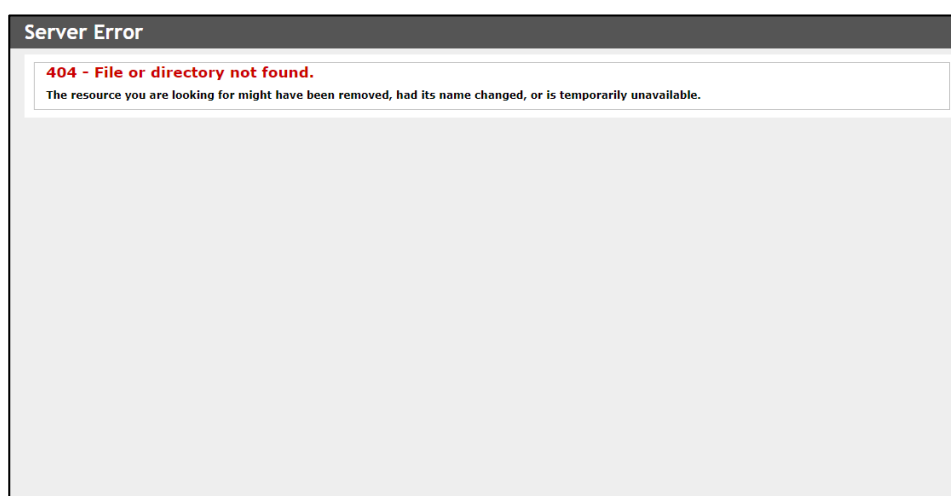
“COLLECTOR SERVICE ERROR” is displayed at the top of the screen.



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**

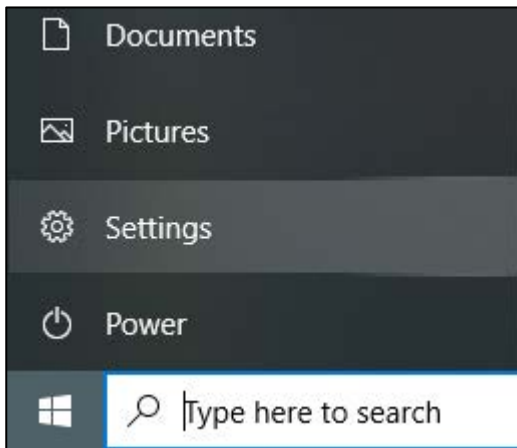
This software communicates with machine by specific time span to collect information therefore status changing in short time may not be recorded as history.

- **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.

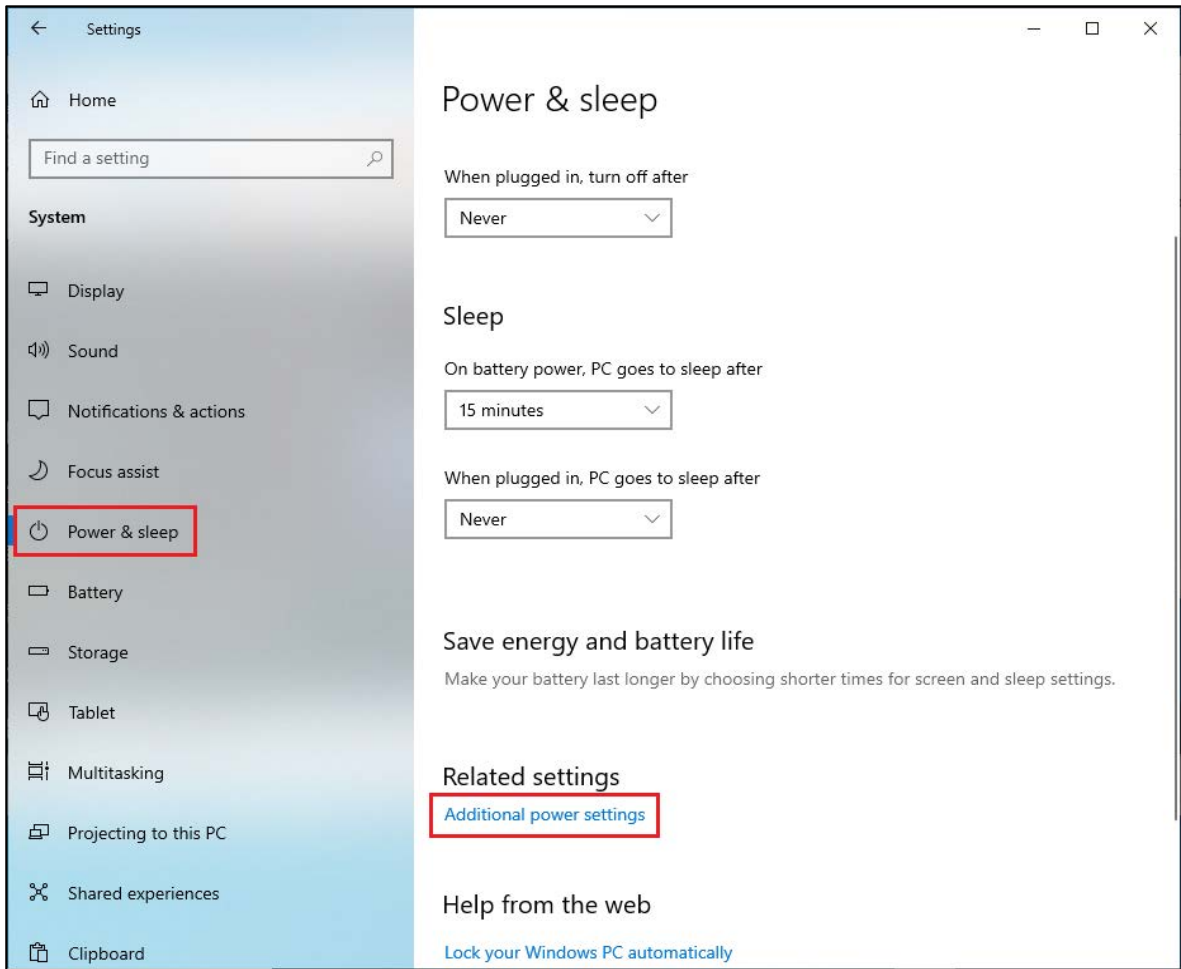
**[Windows10]**

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

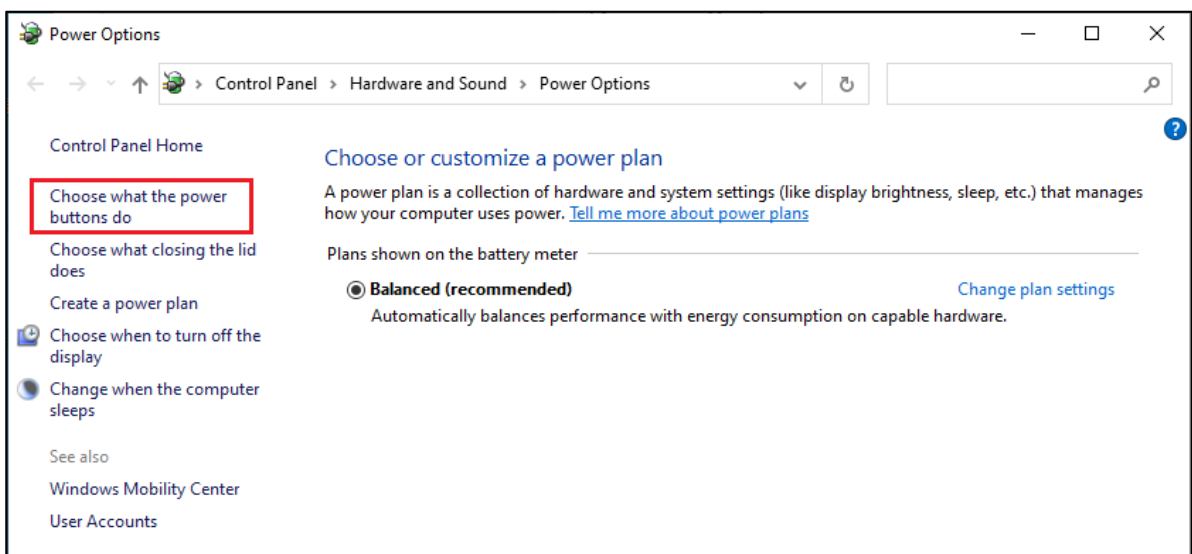


2. In the Settings menu, go to System, then Power & sleep.

3. Select Additional power settings.

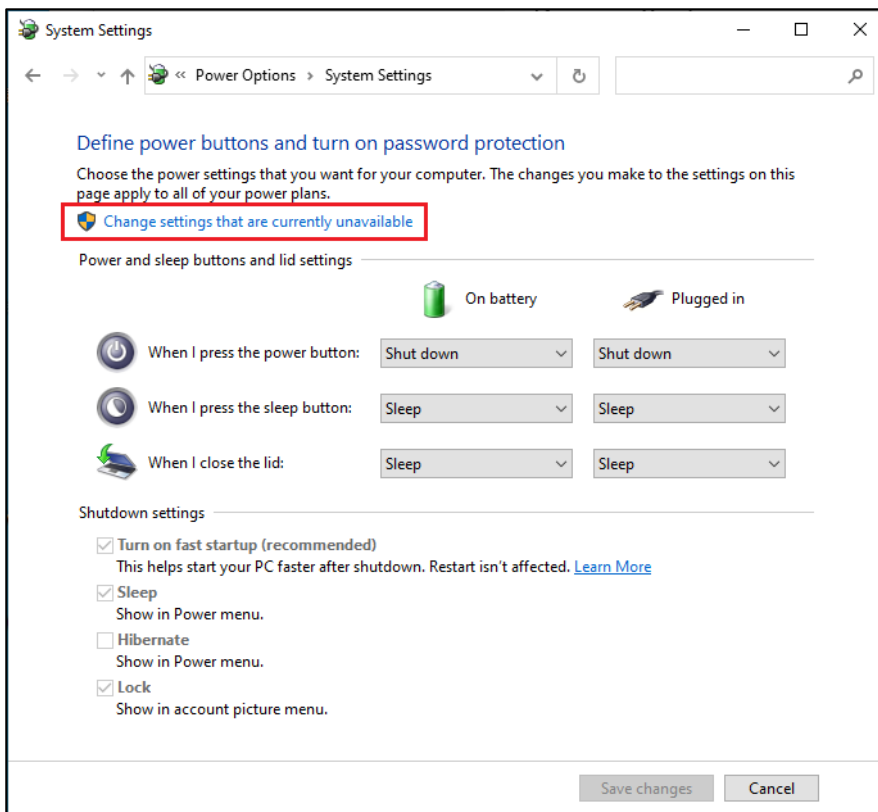


4. The Power Options window will open. Click Choose what the power buttons do.

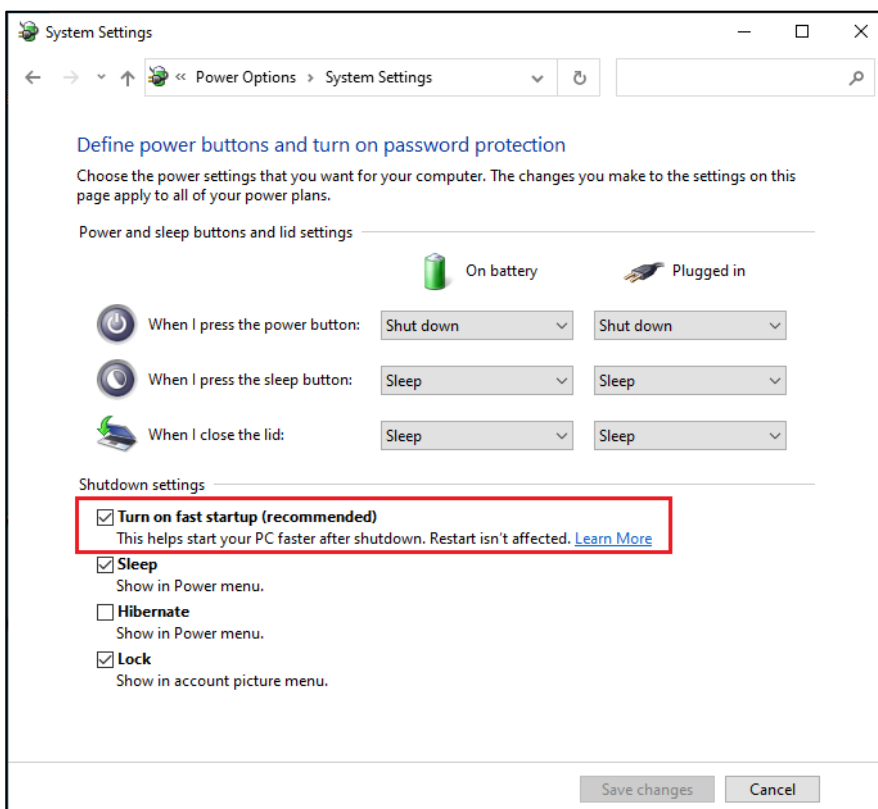


5. Click Change settings that are currently unavailable.

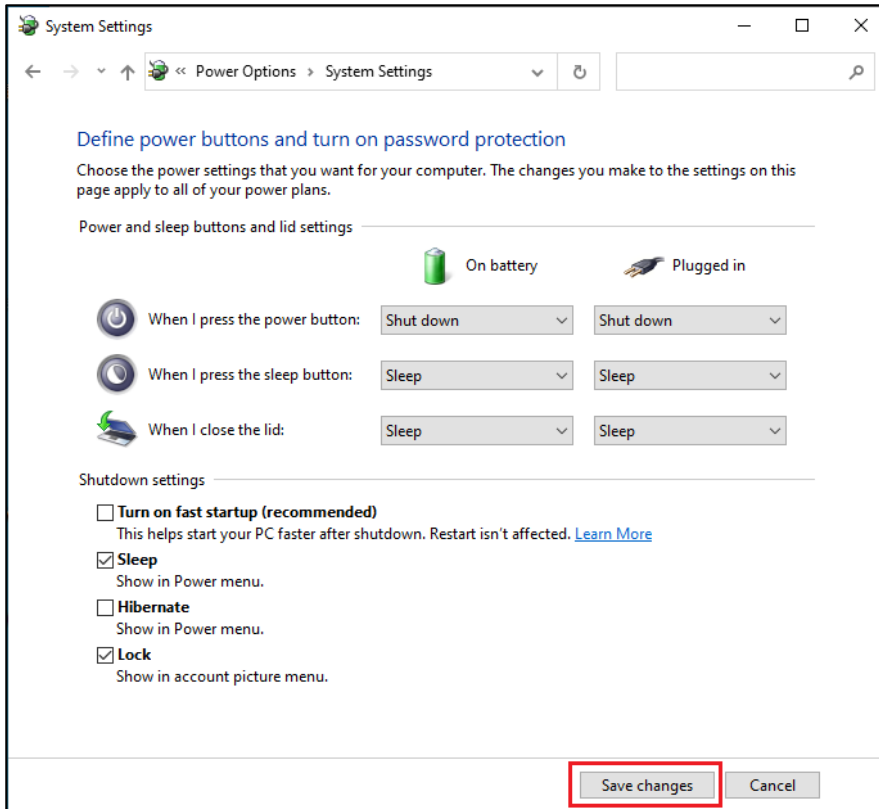
When User Account Control displays, click [Yes]



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.

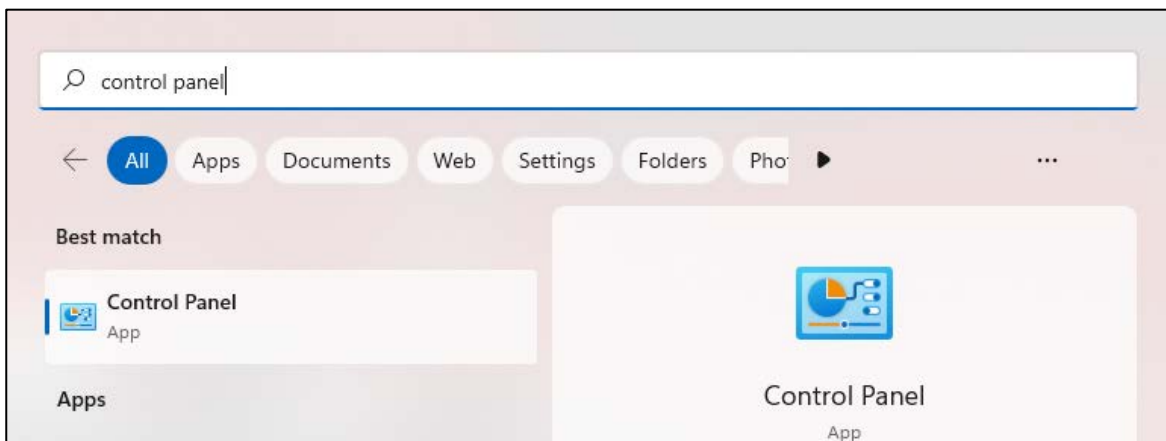


7. Click Save changes and exit out of the window.

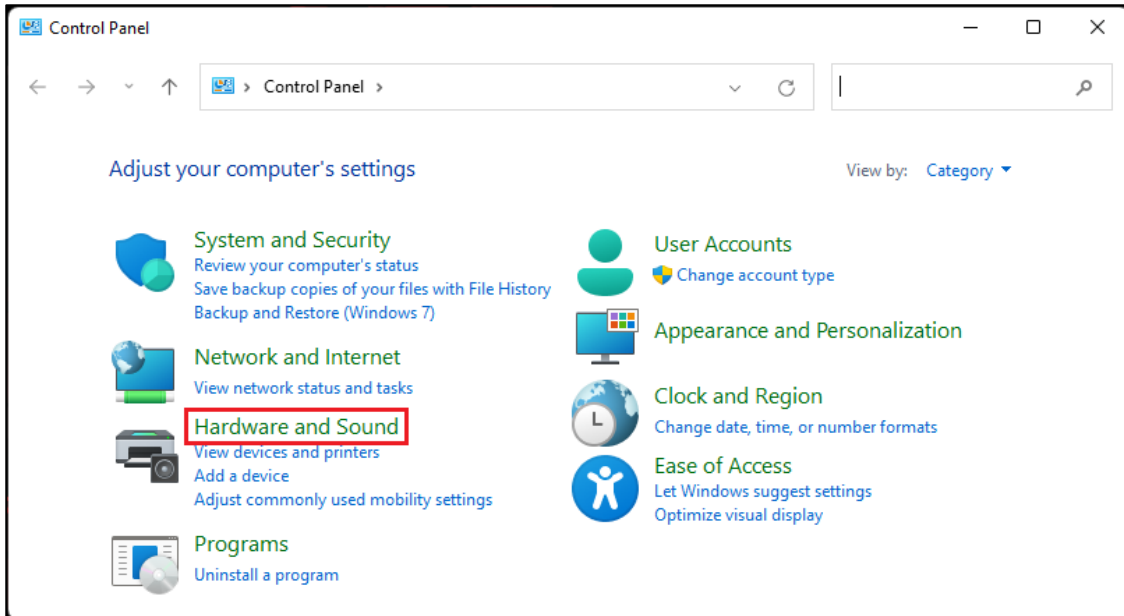


## [Windows11]

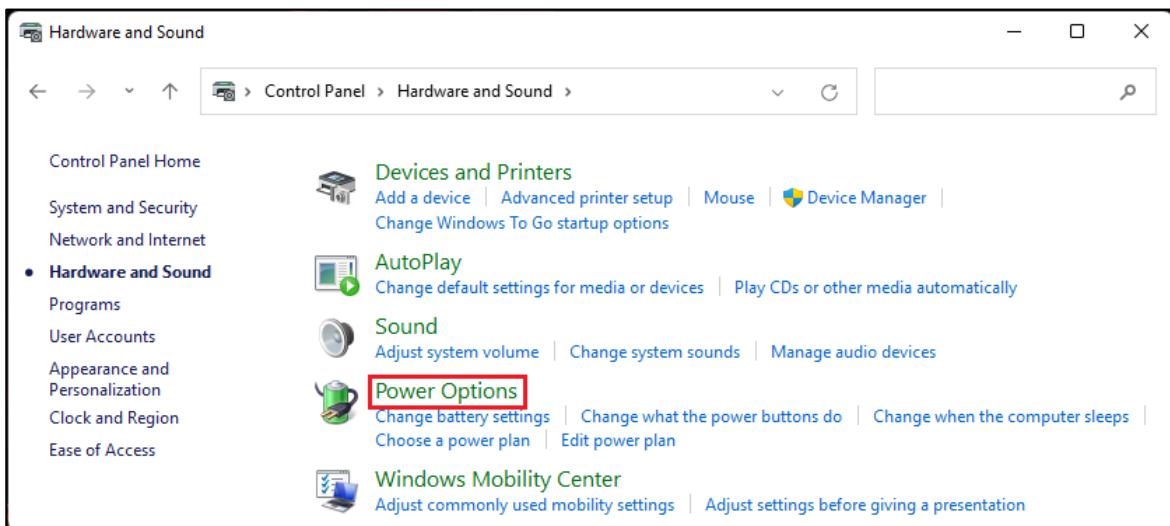
1. Go to Start, search for and select Control Panel.



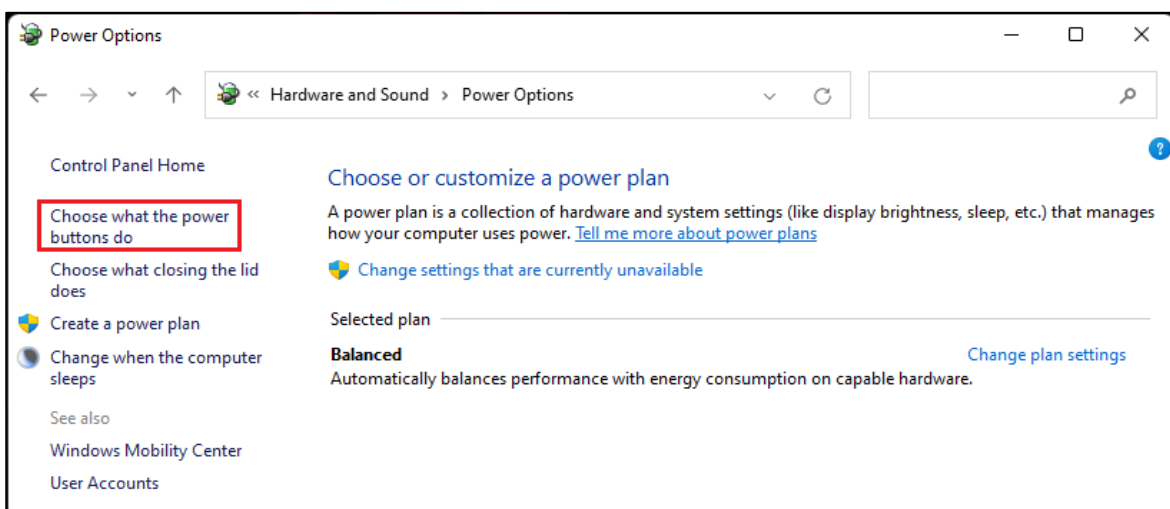
2. In the Control Panel, click Hardware and Sound.



3. Select Power Options.

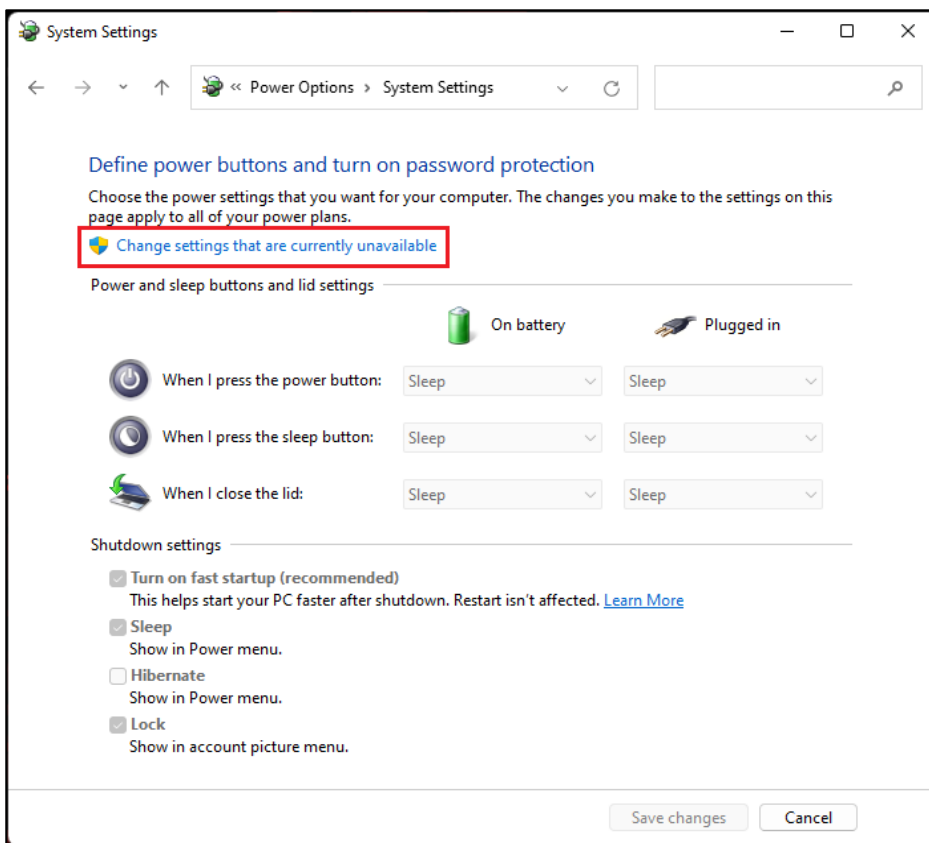


4. Click Choose what the power buttons do.

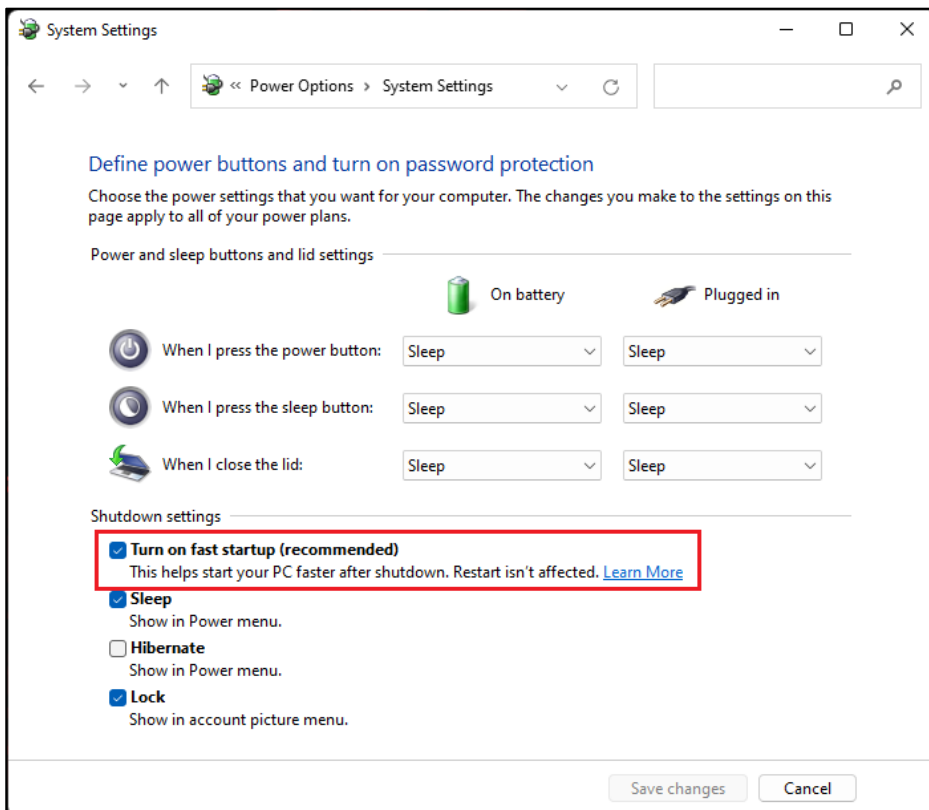


5. Click Change settings that are currently unavailable.

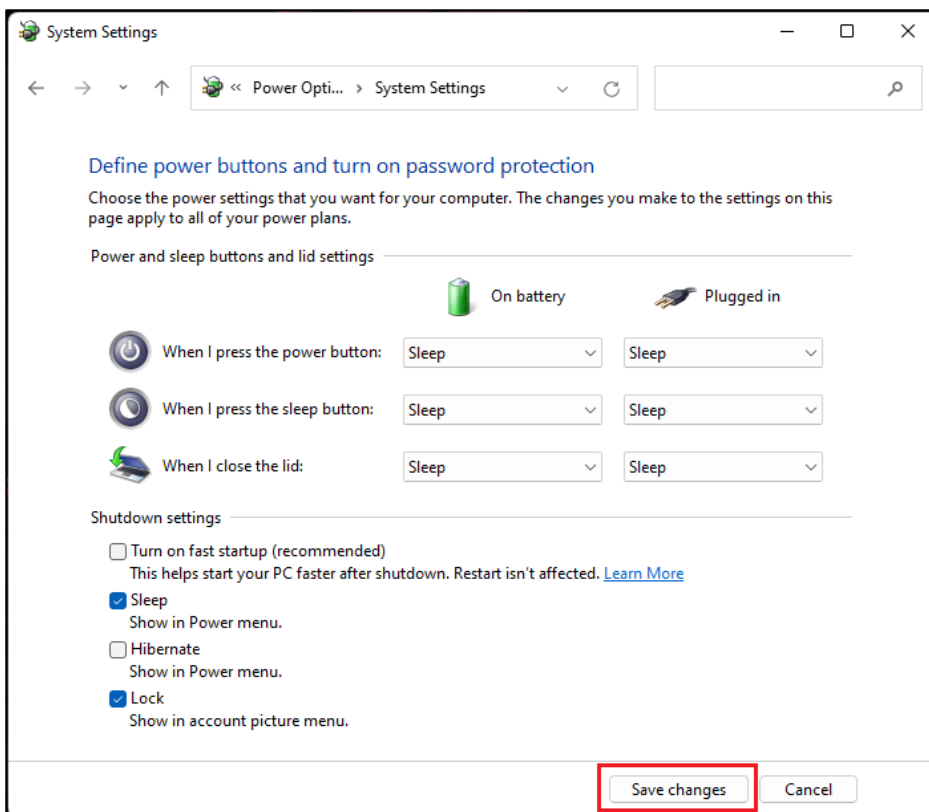
When User Account Control displays, click [Yes]



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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