Chapter 4 Excel form

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Chapter 4 Excel form

Action \cdot \cdot \cdot \cdot \cdot \cdot -4-2Image: Practical work for excel form \cdot \cdot -4-3



\ll About action \gg

The special processing which utilized the application software in personal computers, is called "Action." Field/site data can be linked with various software including Excel and Access.



Practical work of "logging to excel" that collects the data of connection unit on excel sheet, is performed from excel related action. Refer to Reference Manual " Chapter 5 Report to be created using Excel" for Details.



 $\ll Action$ outline of practical work \gg

The data saved in device D 50-53 of PLC is logged to Excel on a personal computer.



≪Setup steps≫

- ① Create the template of Excel.
- Start the Pro-Studio EX and create the network project file (NPX).
 (Use the items created from 1st chapter)

(Use the items created from 1st chapter)

- (3) Register the participating node.(Registered in Chapter 1)
- Register the symbol of the device address which is to be used. (Registered in Chapter 1)
- (5) Set up the feature (action and trigger conditions).
 The area which records data on the template of ① is created.
 Trigger conditions are set in each area.
- 6 Transfer NPX after performing save/reload.
- \bigcirc Check the action.

→ As for the practical work from the next page, perform it (5) onwards after creating the template for (1), as a items in which $(2)^{\sim}(4)$ are already exist.











	A	В	С	D	E	F
1	Production	Report				
2						
3		Time	D50	D51	D52	D53
4	1st					
5	2nd					
6	3rd					
7	4th					
8	5th					
9	6th					
10	7th					
11	8th					
12	9th					
13	10th					
14	total				0	0

[1] The template for Excel is created as follows.

4 words data value of $D50^{\sim}53$ is selected in productions and it is a template for the 10th time record arranging it horizontally.

A1 : Character "Productions report" B3 : Character "Time" C3 $\tilde{F3}(Row)$: Character "D50" "D51" "D52" "D53" A4 $\tilde{A12}(Column)$: Character "1st time" ~ "10th time" A14 : Character "Total" C14 : Total value of C4 $\tilde{C13}$ D14 : Total value of D4 $\tilde{D13}$ E14 : Total value of E4 $\tilde{E13}$ F14 : Total value of F4 $\tilde{F13}$ A3 \sim F3(Row) : Fill with yellow color A14 \sim F14(Row) : Fill with gray color A3 \sim F14(Row · Column) : Ruled line enclosed with each cell

If the above-mentioned figure is drawn, the name of "Logging template .xls" is given/attached and it will be saved at desktop.





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[2] Set up the action.



- 3 Select [Excel form] in types of action.
- ④ Enter an action name as "production report".
- (5) Click [Click here ..] button.

Create form usir	g Excel	
When you use	ation the name of Excel template file that is the source of forms. the wizard, the theme template file is copied to a file with this nam ate a new template, please specify the file name.	Version 1.00
Template File	C:\xxx\xxx\Desktop\logging template .xls Edit Template	Reference
Output File The template f	le stores setting info. The actual output result will be displayed in t	
Folder Name File Name	C:\xxx\xxx jDesktop Report_%Y%M%D.xls Retu	Reference
Start from	Displayed State	
	OK	Cancel I

6 Click "Reference" of template file, select the template.

from P3 "Creation of a template"

C:¥ *** ¥ *** ¥Desktop¥logging template.xls

 \rightarrow Enter the folder name of the personal computer (which is used for practical work) in "***."

 \bigcirc Select the desktop in the folder name of output file.

C:¥ *** ¥ *** ¥Desktop

 \rightarrow Enter the folder name of the personal computer (which is used for practical work) in "***."

- 8 Set the file name of output file as default.
- (9) Click the "edit template" button.



[3] Excel will get start and the following template which is created at the beginning will get opened.



1 The range will be specified by dragging the cell from B4 to F13 on the template.

② Click the icon of "Device logging area" from excel action tool bar.



Edit the device logging area

Action setting tab (it sets up which data is recorded in what way.)



③ Device setup The following items are selected from the pull down button.

Participating department : AGP1

Model name : PLC1

Device address / symbol group :_D00050_WORD

Remove the check of "adding a device address / symbol name".

(4) Layout setup

Time stamp : "Forward"

(5) Action when cell gets full : Scroll

Enter other items as per above figure.

 \rightarrow Next, click the "Trigger condition setup" tab.

Count will get increased 😰 Device Loggin if the number of the Action Setting Trigger Condition Settings action areas increases on the sheet . 0 Action Area No. When the specified trigger type (under-condition button) is satisfied, this area is executed. Please specify a trigger type. 6 New Trigger Condition New Trigger Button Clear Cell when the following condition is satisfied. Logging Edit Delete Edit Delete Trigger Condition Trigger Condition If two or more are specified, the Action is executed when any of them is satisfied. (\mathbf{i}) For more complicated operation, please configure from [Excel Action]-[Execution Sequence List] in the menu. ΟK Cancel

Trigger condition setting tab (the timing in which data is recorded, is set up)

6 Click [New trigger conditions].

 ⑦ Click [New trigger condition] button from "Trigger condition setup"

	Set Trigger Condition
	Specify a trigger condition of the ACTION.
7	Trigger Condition
	Edit
	Node
	Close

[4] Set the new trigger conditions.

				=
	Trigger Condition Name LoggingSwitch			🖎 Find Node
	NODE Name AGP1	<u> </u>	dd Node	
F	While _M0000_BIT of Node AGP1 is ON	Trigger Condition		
(2)	Condition 1			
Ŭ	Specify the Trigger Condition.			
	👫 When Turned Ol 💭	While Device is C	N 🤮 While	e Condition Satisfied
	C Specified Time	While Device is Of	F 🚺 Whe	n Condition Satisfied
	Constant Cycle	When Device 0	N 🔠 Whe	en Partner Node ON
	When Device Changes	When Device Of	F 🔀 Whe	n Partner Node OFF
	Device Name			
	PLC1			
	Device Address			
	Data Type Bit			
			CL 1 C	da 🗔 Alumu
	Limited Time Offer	r O , min	Check Cyc 3000	cle 🗖 Always 🗄 ms
		Detail Setti	na l OK	Cancel
_				
			3	
\bigcirc	Name of the trigger	condition :		
Log	gging switch			
	Node name: AGP1			
(2)	Condition: Select "	While devi	ce is	
ÖN				
	Device name: PLC	:1		
	Device address: _M		-	
	_			
~	Check cycle: 3000	ms		
3	Click [OK] button.			
The trigger co	ndition logging switch		rigger Condi	
is created abo		Speci	fy a trigger conc ger Condition	lition of the ACTION.
			gen condition	New Trigger Condition
(4) Click [Clos	sel			
			LoggingSwitch	-

Set Trigger Condition	×
Specify a trigger condition of the ACTION.	
Trigger Condition	
New Trigger Condition	
LoggingSwitch	
Node AGP1	
While _M0000_BIT of Node AGP1 is ON]
	1
Close	
(4)	

(5) Double click the [Logging switch] from pull down button of trigger condition and select it. 🖅 Device Logging

5

Action Settings Trigger Condition Settings

6 Click [OK] button.

 Excel will get close after clicking [X] mark icon of upper right corner of window.

XThe screen will get color in action area.

0 Action Area No. When the specified trigger type (under-condition button) is satisfied, this area is executed Please specify a trigger type. New Trigger Button New Trigger Condition Clear Cell when the following condition is satisfied. Logging Edit Delete Trigger Condition Trigger Condition LoggingSwitch If two or more are specified, the Action is executed when any of them is satisfied. (\mathbf{i}) For more complicated operation, please configure from [Excel Action]-[Execution Sequence List] in the menu. Cancel 0K (6) 🔀 Microsoft Excel - logging template .xls Bile Edit View Insert Format Tools Data Window Help ExcelAction(A) - 8 🗅 🖙 🖬 🔒 🎒 🏙 🗠 - 🍓 Σ 🏂 🛃 🛍 🛛 👻 🚍 🕭 -49 🗗 👹 🜮 🍇 🖉 🔗 🗰 💕 💣 🚞 Object 2 -= =EMBED("ProExcelFormOcx.FormRangeInfo.1","") Α Production Report 3 4 1st 2nd 3rd 4th 5 6 7 8 9 10 5th 6th 7th 8th 11 12 13 14 9th 10th total 15 16 17 18 19 **■** • [[🐚 🖬 💵 🔍 🔅 🔅 🖊 🖉 ۰. 🖾 Ready NUM

_ 🗆 ×





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-	Create form using Exe	cel	Version 1.00	
9 Click [OK] button in	Template Designation			
the dialog box of "create form using excel"	When you use the w	ame of Excel template file that is the source of forms. iizard, the theme template file is copied to a file with this name. new template, please specify the file name.		
	Template File	C(\xxx\xxx\Desktop\logging template .xls	Reference	
		Edit Template		
	Output File			
		res setting info. The actual output result will be displayed in the follo	owing file.	
	Folder Name	C:\xxx\xxx \Desktop	Reference	
			Default Settings	
	File Name		Deradit Settings	
	Start from Displa	yed State		
		ок	Cancel	
1				
		(9)		
	Set	ACTION Name/Parameter	X	
Dialog box of "Set action				
name/parameter" will get op	oen. Ad	d a new ACTION. ecify an ACTION name, and set its parameter.		
		ACTION Type Create form using Excel.		
		Display the Actions of the old version of Pro-	Server	
		ACTION Name ProductionReport		
		Click here		
	-	to set the ACTION parameter.		
		Next	Cancel	
10 Click [Next] button.				
		Set ACTION Node/Process Completion Notification	×	
Dialog box of "Set action		ACTION Type Create form using Excel.		
node/process completion no	otification"	ON" ACTION Name ProductionReport		
will get opened.		Specify an action node (Windows PC) where the ACTIC	IN works practically.	
		ACTION Node		
		Receive Notification Exists		
		Please specify the notified device that will be in the execution of the ACTION. After the executio ACTION, it will be is turned on.		
		Device Name		
		#INTERNAL	-	
		Notified Device		
		Data Type Bit		
(1) Click [Complete] button.				
		Back Complete	Cancel	
		\mathbb{U}		

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Trigger conditions of action "productions report" and the process list are displayed.



[5] Save/reload NPX and it will transfer to AGP.



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① SHEET1 of Excel sheet file will get open.

2 If the logging switch on GP screen is pressed, 4-word data from D50 of PLC1 will be written in Excel.

③ If it will be written till 10th time, it will be scrolled afterwards.

,-	One point	
i I	Regarding scroll display	1 1
	Since "scroll" is selected by action setup of device logging area, if the data of the 10th henceforth enters, the whole area scrolls and only the latest data for 10 time is saved. When all data is left out, "New sheet" is selected. If the data of the 10th henceforth enters, a new sheet will be created and it will keep on record.	

When communication does not work, refer to the "communication setup of a personal computer and the check method" of introductory chapter and check the setup.

