# 9 Arranging GP Log Data in Excel

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# 9.1 Try to Write GP Log Data in Excel

### [Action Example]

Write the alarm log data stored in SRAM of GP in an Excel file at 15:00 every day.



This section describes the setting procedures for executing the above action (ACTION) as an example.

**NOTE** • Refer to the "GP-Pro Ex Reference Manual" for more details about alarms.

# [Setting Procedure]

1	Creating a Template	This step creates a template to write GP log data on.
	+	
2	Starting 'Pro-Studio EX'	This step starts 'Pro-Studio EX'.
3	Registering Entry Nodes	This step registers the PC and the GPs as entry nodes.
4	Specifying an Excel Template and its Output File	<ul><li>This step sets the following items:</li><li>Specify a template</li><li>Specify an output file</li></ul>
	+	
5	Feature (ACTION) Setting	<ul><li>This step sets the following items:</li><li>Log data type</li><li>Data specification method</li></ul>
6	Setting ACTION Node/Process Completion Notification	This step sets the name of an ACTION node and the alert setting whether it should be tuned on or off
7	Verifying Setting Result	This step verifies setting results on the setting content list screen.
	+	
8	Saving a Network Project File	This step saves the current settings as a network project file and reloads.
9	Transferring a Network Project File	This step transfers a saved network project file to the GP.
10	Executing ACTION	This step verifies that the GP log data is written in the specified area of Excel when the preset trigger condition has become effective.

# 9.1.1 Creating a Template

This step creates a template to write GP log data on.

1 Start 'Microsoft Excel' and create the sheet below in Sheet 1.

When you execute ACTION, log data will be written in.

	A	В	С	D	E
1	Report of Log	Data			
2					
3	Trigger Day	Trigger Time	Message(s)	Acknowledged	Recoverd
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

2 Save the file on PC desktop naming "template.xlt".

# 9.1.2 Starting 'Pro-Studio EX'

This step starts 'Pro-Studio EX'.

Refer to "3 Trial of Pro-Server EX" for details about starting method.

## 9.1.3 Registering Entry Nodes

This step registers the PC and the GP connected with network as nodes. Refer to "30 Node Registration" for details about entry nodes.



Node Name	:PC1
IP Address	:192.168.0.1

Node Name :AGP1

IP Address :192.168.0.100

**Device/PLC Information** 



Entry no	de	Setting item	Setting example	
PC		Node Name	PC1	
10		IP Address	192.168.0.1	
		Туре	GP3000 series	
GP		Node Name	AGP1	
		IP Address	192.168.0.100	

# 9.1.4 Specifying an Excel Template and its Output Book

Specify the form template and output book created in (1). Refer to "9.2 Setting Guide" for more details.

# **Ex.**

Setting item		Setting content
Specify a Template Template File		C:\Documents and Settings\Administrator\Desktop\templete.xls
	Folder Name	C:\Documents and Settings\Administrator\Desktop
Output File	File Name	GP log data.xls
	Start with the output file displayed	Checked

1 Click the [Feature] icon on the status bar.



2 Select [ACTION] from the tree display on the left of the screen, then click the [Add] button.



**3** Click the [ACTION Type] list button, and select "Create form using Excel.".

Then, enter the name of ACTION to set in the [ACTION name] field. In this example, enter "GP Log Data".

<b>NOTE</b> • [ACTION Name] can be an arbitrary name.
---

Set ACTION Name	e/Parameter			×
Add a new ACTIO Specify an ACTIO	N. N name, and set its paramete	ır.		
ACTION Typ	e Create form using Excel.			•
ACTION Nam	Create form using Excel. Writes Data to CSV file. e Writes Data from CSV file. Upload of GP JPEG Data. Upload of GP Log Data. Writes Data to E-Mail. Upload to the database. Download from the databas.	е.		
		Next	Cancel	

4 Click the [Click here to set the ACTION parameter] button.

ACTION Type Create form using Excel.	-
Display the Actions of the old version of Pro-Server	
ACTION Name GPLogData	
Ciel, here	1
to set the ACTION parameter.	
	_

- 5 Make settings regarding an Excel template and its output file.
  - 1) Click the [Reference] button of [Template File] to set the template file "templete.xlt" which you created.

- Template Designation	Version 1.22				
Please specify the name of Excel template file that is the source of forms. When you use the wizard, the theme template file is copied to a file with this name. When you create a new template, please specify the file name.					
Template File	C:Documents and Settings\Administrator\Desktop\template.x				
	Edit Template				
-Output File					
Folder Name	E:\Program Files\Pro-face\Pro-Server EX\NPXDataBase				
File Name	Report_%Y%M%D.xls Return to Default Settings				
Start from Displayed State					
□ Do not save the output file when ACTION runs. (Please use the Save or Save by Macro of Excel.)					
	OK Cancel				

2) Click the [Reference] button of [Folder Name] and specify "Desktop" as a folder to save the output file.

I ne template rile stores setting into. I ne actual output result will be displayed in the rollowing rile.  Folder Name C:Documents and Settings\Administrator\Desktop Reference Reference					
File Name	Report_%Y%M%D.xls	Return to	o Default Settings		
✓ Start from Displayed State □ Do not save the output file when ACTION runs. (Please use the Save or Save by Macro of Excel.)					
		ок	Cancel		

3) Set the file name "GP Log Data.xls" in the [File Name] field for the output file to set.

The template file st	ores setting info. The actual output result will be displayed	d in the following file.
Folder Name	C:\Documents and Settings\Administrator\Desktop	Reference
File Name	GPLogData.xls	Return to Default Settings
🔽 Start from Disp	layed State	
Do not save th (Please use the	e output file when ACTION runs. Save or Save by Macro of Excel.)	
<u>.</u>		
	ок	Cancel

**NOTE** • "%Y%M%D" is preset as "Year/Month/Date". For more details, refer to "36.1 Restrictions on Names".

4) Check the [Start from Displayed State] check box.

Output File The template file sto	pres setting info. The actual output result will be di	splayed in the followin	ng file.
Folder Name	C:\Documents and Settings\Administrator\I	Desktop	Reference
File Name	GPLogData.xls	Return to Defa	ault Settings
Construction Displement Start from Displemen	ayed State output file when ACTION runs. Save or Save by Macro of Excel.)		
		ок	Cancel



# 9.1.5 Setting Content of an Excel Template

This step sets the content of the Excel template for writing log data in Excel. The example below shows the setting of data write area (Log data area in GP) in a template. Refer to "9.2 Setting Guide" for more details.

			Target Cell Range			
	A	В	/ c	D	Е	
1	Report of Log	Data				
2			/			
3	Trigger Day	Trigger Time /	Message(s)	Acknowledged	Recoverd	
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						1
15	L					J



Setting item	Setting content
Target Cell Range	A4 to E13
Entry Node	AGP1
Data Type	Block 1 Data
Alarm Type	Alarm History
Specification Method of File No.	Current Data (Data in SRAM)
Action when cell gets full	Clear and Overwrite
Trigger Condition	Specified Time (15:00)

1 Click the [Edit Template] button.

C	reate form using E	xcel	
			Version 1.10
	- Template Designatio	n	
	Please specify the When you use the When you create	name of Excel template file that is the source of forms. wizard, the theme template file is copied to a file with this name. a new template, please specify the file name.	
	Template File	C: Documents and Settings\Administrator/Desktop/template.x	Reference
		Edit Template	

- 2 Set a data write area.
  - 1) Click the [Log Data in GP Area] icon on Excel.

Mie	🔀 Microsoft Excel - template.xlt								
1 🖳 E	jile <u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	Tools	<u>D</u> ata	<u>W</u> indow	<u>H</u> elp	Exce
	<b>-</b>	8	5   C	• N		$\Sigma f$	ž [	ii 🛛	
] 📐 (	6 Q	$\overline{\mathbf{v}}$	abl 🔟	6		≓ ≞	≞ A		え.
- 🚛 (	f 🕬	R I	ñ 🖉	Ø 🙀	l 💕	1	<u>i</u>		
	A4	k)-		=					
		А		E	3		C	)	
1	Repo	rt of	Log	Data					
2									
3	Trigge	r Day	/	Trigger	Time	Me	essage(s	3)	
4									
5									

NOTE

• Selecting [Log Data in GP Area] from [Excel Action] of the menu displays the same screen.



2) Click the cell range specify button of [Target Cell Range].



3) Drag the mouse to specify the area to use for data logging (cells A4 to E15). Then click the [OK] button.

	Dı	🛩 🖬 🔒 🚳 🛛	5 🖪 🖤 👗 🖻	a 🖻 - 🚿 🗠 - 🖂	- 🥵 Σ - Ž↓	KI   🛍 🐻 🛛	00% 👻
	B	= = 🛛 • 👌	• <u>A</u> •	<b>* 14</b> 🗗 6	이 ㄴ 데 지 ]		<b>≜</b> ∄ A
	6	🗗 👋 🞷 🝇 🛛	F 🔗 🙀 💕 🛙	1 🛋 🗸			
Į		A4 🗸	fx		_		
I		A	В	С	D	E	F
I	3	Trigger Day	Trigger Time	Message(s)	Acknowledged	Recoverd	
I	4	ļ					
I	5					<u>├</u>	
I	7						
I	8		Specify	Range	? >	ล ไ	
I	9		Dia ses a				
I	10		Please s	peary the range.			
I	11						
I	12						
I	13		t044.4	F¢1		1	
I	14		1444114				
I	16	••••••	******	ОК	Cancel		
	17						
	18						
	19						
1	20						

4) Click the list button of [Node] and select "AGP1" as a data transfer source node.

💕 Log Data Uple	pad				
Action Settings	Trigger Condition Settings				
Target Cell Range	\$A\$4:\$E\$13		Node		
GP-PRO/PB L	ogging data (compatible)	•	💿 GP30	Constant (Trigger-Segirce Node)	)
			C GP S	eries	

5) Select "Alarm Block 1 Data" for the data type and "Alarm History" for the alarm type.

💕 Log Data Upl	oad			_ 🗆 ×
Action Settings	Trigger Condition Setting	js		
Target Cell Bange	\$A\$4:\$E\$13	Node	AGP1 💌	
Alarm Block 1	Data	GP300	00 Series / WinGP / LT3000	
,		C GP Se	ries	
Alarm Type	C Alarm Active	Alarm History	🔿 Alarm Log	
Show CSV	File Items			
Specification	Method of File No.			
	Current Data (SRAM/Real	Time)	▼	

6) Select "Current Data (SRAM/Real Time)" in [Specification Method of File No.].

0,000	Current Data (SRAM/Real Time)	<u> </u>
	Current Data (SRAM/Real Time) Latest Data (In CF-Card) Indirect Specification by Device Address (In CF-Card) Specify File No. (In CF-Card)	

7) Select "Clear and Overwrite" in [Action when cell gets full].

Action when cell gets full	Clear and Overwrite	C Scroll	C New Sheet	O Loop
			OK	Cancel

- **3** Set trigger conditions.
  - 1) Click the [Trigger Condition Settings] tab.

💕 Log Data Upl	pad			
Action Settings Target Cell Range	Trigger Condition Settings	Node	AGP1	
Alarm Block 1	Data 💌	🖉 GP300	0 Series / WinGP / LT3000	
			ino	

The "Trigger Condition Settings" screen will appear.

📽 Log Data Hoload
Action Settings Ingger Condition Settings
Action Area No.           When the specified trigger type (under-condition button) is satisfied, this area is executed.           Please specify a trigger type.
New Triager Condition New Triager Button
GP Log Data Upload Clear Cell when the following condition is satisfied.
Edit Delete Edit Delete
Trigger Condition Trigger Condition
If two or more are specified, the Action is executed when any of them is satisfied.
For more complicated operation, please configure from [Excel Action]-[Execution Sequence List] in the menu.
OK Cancel

2) Click the [New Trigger Condition] button.



• You can create a button on the Excel sheet, and use this as a trigger condition to execute ACTION. Refer to "5.6 Creating Trigger Buttons in a Form" for details.

	A	В	С	D	E	F	G	н
1	Report of Log	Data						
2								
3	Trigger Day	Trigger Time	Message(s)	Acknowledged	Recoverd			
4								
5								
6								
7								
8							Excel For	mAction
9							2,001101	
10								
11								
12								
13								
14								
15								
16	1							

3) Click the [New Trigger Condition] button.

Set Trigger Condition 🛛 🛛 🛛
Specify a trigger condition of the ACTION.
Tijgger Condition
New Trigger Condition 📐
Edit
Node
Close

 Enter the trigger condition name "Read GP Log Data" in [Trigger Condition Name], and select "AGP1" in [Node Name] as a name of the data transfer source.

			×
Trigger Condition Name	ReadGPLogData	-0	
Node Name	PC1 Add Node		Find Node
	AGP1		
			<b>•</b>
, 			

5) Click the [Specified Time] button in the [Condition 1] tab, and enter "15" and "0" in [Specified Time]. Then click the [OK] button.

Condition 1		
Specify the Trigger Condition.		
👫 When Turned ON	While Device is ON	While Condition Satisfied
G Specified Time	While Device is OFF	🐞 When Condition Satisfied
Constant Cycle	When Device ON	🔠 When Partner Node ON
When Device Changes	When Device OFF	🗏 When Partner Node OFF
Specified Tine 15 hour	0 _ min	
	Detail Settings	OK Cancel

6) Click the [Close] button.

Set Trigger Condition
Specify a trigger condition of the ACTION.
Trigger Condition
New Trigger Condition
ReadGPLogData Edit
Node AGP1
At 15hour0min
Close

 In [GP Log Data Upload], click the blank line of [Trigger Condition] and select "ReadGPLogData" as a trigger condition.

New Trigger Condition New Trigger B	utton
GP Log Data Upload	Clear Cell when the following condition is satisfied.
Edit Delete	Edit Delete
Trigger Condition	Trigger Condition
ReadGPLog	Data
If two or more are specified, the	Action is executed when any of them is satisfied.
For more complicated operation Sequence List] in the menu.	, please configure from [Excel Action]-[Execution

8) Click the [OK] button.

This is the end of the content settings of an Excel template.

4 Close 'Excel'.

🔀 Microsoft Excel - template.xlt	
Eile Edit View Insert Format Tools Data Window Help ExcelAction(A)	_ 8 ×
🗋 🗅 New Ctrl+N 👌 🛍 🕄 🐥 🔹 🔹 🔹 😨	🗐 🗐 • 🔕 • 🐥
Ctrl+O	
Save Ctrl+5	
Save as Web Page	
	<u> </u>
3 Page Setyp	
Print Area	
7 Ctrl+P	
8 Send To	
9 J Decuments and Se Javceltablevis vis	
10 I (Documents and Settings) A (Book) vis	
11 12 3 Documents and Settings m., Jaaaa, xls	
13 4 \Documents and Settings\mh\test.xls	
18	
K K K K K K K K K K K K K K K K K K K	

The following dialog box will appear, asking you if you want to save changes before closing. Click the [Yes] button.



 $5\,$  On the "Create form using Excel" screen, click the [OK] button.

Folder Name	C:\Documents and Settings\Administrator\Desktop Reference			
File Name	GPLogData.xls		Return to De	fault Settings
🔽 Start from Displaye	ed State			
Do not save the out (Please use the Sa	utput file when ACTION runs. ave or Save by Macro of Excel.)			
			ĸ <sub>k</sub>	Cancel

# 9.1.6 Setting ACTION Node/Process Completion Notification

This step sets the name of an ACTION node and the alert setting whether it should be tuned on or off when the ACTION is completed.



- ACTION Node : PC1
- Receive Notification: OFF
- 1 On the "Set ACTION Name/Parameter" screen, click the[Next] button.

Set ACTION Name/Parameter
Add a new ACTION. Specify 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 GPLogData
Click here to set the ACTION parameter.
Next Cancel

2 Click the list button of [ACTION Node] and select "PC1" as a node where ACTION operates.

Set ACTION Node/Process Completion Notification	×
ACTION Type Create form using Excel.	
ACTION Name GPLogData	
Specify an action node (Windows PC) where the ACTION works practically.	
PC1 PC1 BekSive Natification Prists	
Please specify the notified device that will be informed of the execution of the ACTION. After the execution of the ACTION, it will be is turned on.	

**3** Turn off the check box of [Receive Notification Exists], if checked.

ACTION Node	
PC1	
Receive N Please s the exec ACTION	Notification Exists specify the notified device that will be informed of sution of the ACTION. After the execution of the I, it will be is turned on.
	Device Name
	#INTERNAL
	Notified Device
	· · · · · · · · · · · · · · · · · · ·
	Data Type Bit



4 Click the [Complete] button.

The "Set ACTION Node/Process Completion Notification" screen will disappear. On the left of the screen, the name of ACTION you set will appear.

	Device Nan	ne			
	#INTERNA	L	<b>V</b>		
	Notified Device				
			Ŧ		
	Data Type	Bit			
Bac	k	Complete	Cancel		

This is the end of the settings of the ACTION node and process completion notification.

# 9.1.7 Verifying Setting Result

This step verifies setting results on the setting content list screen.

NOTE •	In case of the "Excel Report" ACTION, you cannot add, edit or delete trigger conditions from
	"Trigger Condition/Process List per ACTION". To change the settings, click the [Parameters
	Settings] button and change the settings in [Edit Template] on Excel.

1 Select the ACTION name "GP Log Data" from the tree display on the left of the screen.

🎕 Pro-Studio EX	?.прж
File Edit Tool	Programming Assist
Start 2	Node
Add	Import
Edit	Delete
← ← ACTION ← ↓ GPLo Trigger Co ↓ Data Tran ↓ Device Ca	pData indition(s) aPLogData sfer ache

Confirm that the setting content appears on the right of the screen.

🎨 P	Pro-Studio E	Х ?.прж		×
File	Edit Tool	Programming Assist	Setting Help	
P	🔰 Start	» 🔊 Node	>> ≽ Symbol >> ≷ Feature >> 📄 Save >> 🆄 Transfer	us
	Add Edit	Import Delete	ACTION-Specific Trigger Condition/Process List Add Edt Release Data Source Node AGP1 Grigger Ar 15hou/0min Data Rename	
	⊢ A GRI - Tingger - Data Tr - Device	<u>sgData</u> Candition diflogData antifer Cache	Condition Completion Condition Create form using Excel Set Parameter ACTION Node PCI	

2 Select the trigger condition name "ReadGPLogData" from the tree display on the left of the screen.

📚 Pro-Studio E>	?.npx
File Edit Tool	Programming Assist
Start	» Node
Add	Import
Edit	Delete
ACTION	ogData ondition <mark>IGPLogData</mark> nsfer ache

Confirm that the setting content appears on the right of the screen.

🎕 Pro-Studio EX 🛛 ?.npx	
File Edit Tool Programming Assist	Setting Help
Start >> 🛐 Node	>> ≽ Symbol >> ≷ Feature >> [] Save >> 🖄 Transfer
Add Import	Trigger Condition Sequence Diagram by Trigger Condition
Edit Delete	ReadGPLot         Edt         Feature         Source         Destinat         Receive/Process Co           Node/AGP1         GPLogD         AGP1.# > PC1.GP         PC1.GP         PC1.GP
	At 15hour0min
	Process Co Processing Error Code IP Address

This is the end of the verification of the settings.

## 9.1.8 Saving a Network Project File

This step saves the current settings as a network project file and reloads to 'Pro-Server EX'.

Refer to "24 Saving" for details about saving a network project file.

- "Pro-Server EX" reads a created network project file, and then executes ACTION according to the settings in the file. The settings therefore need be saved in the network project file.
  - Be sure to reload the network project file to 'Pro-Server EX'. If not, ACTION will not work.



- Path of network project file
- Title

: Desktop\monitor.npx : EXCEL Report ACTION

## 9.1.9 Test Read

You can check if the settings are correct before transferring a created network project file to entry nodes.

When executing ACTION, the setting data is output to an output file. However, when executing a test read, it is reflected in a template file.

NOTE	•	You do not necessarily have to perform a test read.
		If you skip this, proceed to "9.1.10 Transferring a Network Project File".

• To perform a test read, it is necessary that 'Pro-Server EX', to which a created network project file has been loaded, is running.

- 1 Click the [Feature] button.
- 2 Click "ACTION" from the tree display on the left of the screen, then click the [Edit] button.
- 3 On the "Set ACTION Name/Parameter" screen, click the [Click here to set the ACTION parameter] button.
- 4 On the "Create form using Excel" screen, click the [Edit Template] button.

5 With the ACTION area selected, click the [Test Read] icon.

B	≡ ≡   <u>□</u> • <b>&gt;</b> ₽ <b>≫</b> ₽ <b>≈</b>   <i>5</i> •	•▲• ଡା∺ ¢	° 🕍 🖄	Dcx.FormRangeIr	fo.1″,″″)	\$
	A	В	С	D	E	
1	Report of Log	Data				
2						
3	<u>Trigger Dav</u>	Trigger Time	Message(s)	Acknowledged	Recoverd	L
4			Ŭ			Ĺ
5						
6						
7						
8						
9	,					<u> </u>
10	[					
11						
12						
13						
14						
15	,					<u> </u>
116						

The setup contents will be read in the template.

**NOTE** • Refer to "9.3 Restrictions" for details about the restrictions on test reads.

## 9.1.10 Transferring a Network Project File

This step loads a saved network project file to 'Pro-Server EX' and then transfers to entry nodes. Refer to "25 Transferring" for details about transferring a network project file.

**NOTE** • Be sure to transfer a network project file. If not, ACTION will not work.

# 9.1.11 Executing ACTION

This step verifies that enabling a trigger condition activates ACTION, opens an Excel book (file name: "GP error log.xls"), and then writes the GP log data in the specified location in Excel.

	A B		С	D	E
1	Report of Log	Data			
2					
3	Trigger Day	Trigger Time	Message(s)	Acknowledged	Recoverd
4	12/20/2007	10:30:00	Abnormal Pressure		10:35:00
5	12/20/2007	11:00:00	Abnormal Pressure	11:32:00	11:32:30
6	12/20/2007	11:30:00	Abnormal Temp	11:33:00	11:35:30
- 7	12/20/2007	12:00:00	Abnormal Pressure	12:03:00	12:05:30
8	12/20/2007	12:30:00	Abnormal Temp	12:32:00	
9					
10					
11					
12					
13					
14					
15					

NOTE

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If error occurs, you can check the log in the Log Viewer. For more details, refer to "27.5 Monitoring System Event Logs".

This is the end of the explanation of this ACTION.

# 9.2 Setting Guide

This section explains how to set the parameters of ACTION.

9.2.1 "Creating form using Excel" Screen

"5.1.2 Setting Guide"

# 9.2.2 "Log Data Upload" Screen

"Action Settings" Tab

Log Data Uplo	ad						
Action Settings	Trigger Cond	dition Setting	s				
Target Cell Range	\$A\$4:\$E	5\$13		Node	(Trigger-Sourc	ce Nodej 💌	
Alarm Block 1 D	ata		-	<ul> <li>GP300</li> </ul>	0 Series / WinGF	/LT3000	
				◯ GP Ser	ies		
Alarm Type	C Ala	rm Active	Alarm H	listory	C Alarm Log		
Show CSV F	ile Items						
Specification N	lethod of Fil	e No. ——					
0	irrent Data (S	SRAM/Real	Time)			•	
Action when c	ell gets full	Clear a	nd Overwrite	C Scro	I C New S	heet C Loo	P
🔲 In creating	a sheet, cle	ar the specif	ied cell range	and then st	art.		
						ηκ	Cancel

Setting item	Setting content
Target Cell Range	Setting content Specifies the cell range to which data will be written. Clicking the button can select the cell range on Excel. Drag the mouse to select the cell range. NOTE • Setting range of cells: Rows 1 to 65536, Columns 1 to 256 • Instead of using the mouse, you can type the cell range. Click the Excel screen, enter the cell range on the "Specify Range" screen, and then click the [OK] button. <b>Specify Range</b> • When you specify the cell range including 1501 lines or more, only the top-left cell of the selected range seems to be specified on the display. • When you specify the cell range including 1501 lines or more, only the top-left cell of the selected range seems to be specified on the display. • The useful function is available to check the specified cell range (Action Area).Refer to
Node	<ul> <li>Selects a node to read log data.</li> <li>NOTE</li> <li>Clicking the [] button can retrieve or add entry nodes.</li> <li>Selecting "(Trigger-Source Node)" will select the entry node that has triggered the action.</li> </ul>

Setting item	Setting content
	Selects a log data type to write in a form. Selectable log data depends on the type of GPs.
	• When selecting "Alarm Block 1 Data" in the GP3000 Series/WinGP/LT3000, select one of the alarm types among "Alarm Active", "Alarm History" and "Alarm Log".
	Alarm Block 1 Data  Alarm Type  Alarm Active  Alarm History  Alarm Log
Alarm Type	In GP3000 Series/WinGP/LT3000, to upload line graph data, sampling data and logging data in a project file converted from 'GP-PRO/PB III for Windows', specify "For compatibility" of the corresponding data.
	• When selecting "GP Screen Data (Jpeg)", set the number of screen to be read in the area.
	GP Screen Data (Jpeg)  No. of JPEGs (Figures) 1
	NOTE
	• You cannot write the "GP screen data (JPEG) "log data in GP3200 Series or LT3000 because they do not have a CF card slot.
	Check if you want to display the title content in Excel.
Show CSV File Items	• This does not appear if you select "CSV Display Data" or "GP Screen Data (JPEG)".
	Selects where log data to read is stored. • Current Data (SRAM/Real Time)
	Reads out current data stored in SRAM of GP.
	• Latest File in CF-Card Reads out the latest data from those stored in a CF card of GP.
	• Specified-Numbered File in CF-Card (The No. indirectly specified by Device) Reads out a specified number file from data stored in a CF card of GP. In this case, the number is specified by device indirectly.
	Specify Node, Device Name, and Device Address.
Specification Method of	Specification Method of Sampling Group No. Indirect Specification by Device Address
FIIE NO.	Node ((Trigger-Source Node) 💌 Device Name
	Device Address/Symbol
	• Fixed-Numbered File in CF-Card
	In this case, specify the file number of the CF card.
	Indirect Specification by Device Address Node (Trigger-Source Node)
	Device Name

Setting item	Setting content				
Specification Method of Sampling Group No.	If you select "Sampling Data" in GP3000 series/WinGP/LT3000, set how to specify a sampling group No.  Indirectly Specify Sampling Group No. by Device Specify a sampling group No. by device indirectly. In this case, specify Node, Device Name, and Device Address/Symbol.  Indirect Specification by Device Address Node  Indirect Specification by Device Address Device Name Device Address/Symbol  Device Address/Symbol				
	<ul> <li>Fixed Sampling Group No.</li> <li>Fix and specify a sampling group No.</li> <li>In this case, specify a group No.</li> </ul>				
	Specification Method of Sampling Group No.				

Setting item	Setting content
	Sets the action when the specified cells have got full. • Clear and Overwrite Clears data write cells to start writing from first. When adding D to the full cell, A B C D D
Action when cell gets full	<ul> <li>Scroll</li> <li>Scroll up as a whole to write new data at the bottom. At this time, data at the top will be deleted.</li> <li>You can specify this option when selecting "GP Screen Data" for the data type.</li> <li>When adding D to the full cell,</li> <li>A B C D</li> <li>C D</li> <li>A B C D</li> <li>A</li></ul>
	• Loop Overwrites from top in sequence. You can specify this option when selecting "GP Screen Data" for the data type. When adding D to the full cell, $\begin{array}{c} \hline A \\ \hline B \\ \hline C \end{array} \bullet \begin{matrix} D \\ \hline B \\ \hline C \end{array}$
In creating a sheet, clear the specified cell range and then start.	Before copying a sheet from the template file, if data are written in the cell range of the sheet, clears the data and starts copying.

"Trigger Condition Settings" tab

💱 Log Data Upload 📃 💷 🗙
Action Settings Trigger Condition Settings
Action Area No. <b>O</b> When the specified trigger type (under-condition button) is satisfied, this area is executed. Please specify a trigger type.
New Trigger Condition New Trigger Button
GP Log Data Upload Clear Cell when the following condition is satisfied.
Edit Delete Edit Delete
Trigger Condition Trigger Condition
If two or more are specified, the Action is executed when any of them is satisfied.
For more complicated operation, please configure from [Excel Action]-[Execution Sequence List] in the menu.
OK Cancel

Setting item	Setting content
Action Area No.	Displays No. allocated to each ACTION area by template.
New Trigger Condition	Displays the "Trigger Condition Settings" dialog box. Click here to set a new trigger condition.
New Trigger Button	Displays the "Create Trigger Button" dialog box. Refer to "5.6.2 Setting Guide" for more details.
	Selects a trigger condition to read log data. Click the blank line of [Trigger Condition] and then the list button to display the registered trigger condition.
GP Log Data Upload	<ul> <li>NOTE</li> <li>When plural trigger conditions have been specified, satisfying at least one of those conditions executes ACTION.</li> <li>Clicking the [Edit] button can edit the specified trigger conditions.</li> <li>Clicking the [Delete] button deletes the specified trigger conditions.</li> </ul>

Setting item	Setting content
Clear Calls when the	Clears cells if a set trigger condition is satisfied. Click the blank line of [Trigger Condition] and then the list button to display the registered trigger condition.
following condition is satisfied	<ul> <li>NOTE</li> <li>When plural trigger conditions have been specified, satisfying at least one of those conditions clears cells.</li> <li>Clicking the [Edit] button can edit the specified trigger conditions.</li> <li>Clicking the [Delete] button deletes the specified trigger conditions.</li> </ul>

# 9.3 Restrictions

## Combined Cells

Do not set an ACTION area on combined cells.

For example, if you set an ACTION area in the cells as shown below, correct operation cannot be guaranteed.

	A	В	С	D
1	D1 00	D1 01	D1 02	D1 03
2				
3				
4				
5				
6				
7				

## Over-pasted ACTION Areas

When you over-paste plural ACTION areas of different size, read/write will be executed in the pasted order.

## Excel Window

If the setting screen is hidden behind the Excel window, the screen and task tray windows will blink and notify the user. Blinking will stop automatically when the setting screen comes forward.

## Operation in ACTION area when error occurs

When you actually write/read in "GP Log" function and exceed the ACTION area, perform the common operation as follows:

1) When performing a test read/ a test write

Error screen is displayed.

2) When executing ACTION in runtime

It will be recorded as ACTION error in the Log Viewer of the 'Pro-Server EX'.

#### Functions which are not executed by a Test Read

The following functions are not executed by a Test Read.

"Action when cell gets full"

"Clear the cell range specified in creating a sheet to start"

#### In the case of closing the displayed output book

If you have mistakenly closed an output book of Excel Report ACTION, follow these steps to open it again: Dragging and dropping the book to open will make it read-only and the start button etc. invalid.

- 1. Double-click the output book.
- 2. When the following dialog box appears, select "No" to open it.

Microsoft Excel							
į	Report_20060415.xls is already open. Reopening will cause any changes you made to be discarded. Do you want to reopen Report_20060415.xls?						

## Receive notification

You cannot set the receive notification which indicates the completion of ACTION.

## When setting "Trigger-Source Node"

When setting "Trigger-Source Node" at node in Excel Report action, node type and device are uncertain. Therefore, the device address is displayed in red.But, it is no problem.

### Edit the output file

While Excel Report Action is executing, you can not edit the output file.

Therefore, it becomes very difficult to operate Excel at the setting in which the Trigger condition satisfies at a short cycle.Moreover, the following error message is displayed when the Action is executed during editing the output file.



## Restrictions on Copying or Cutting and Pasting the Action Area

When you paste the Action area using Ctrl+C & Ctrl+V or Ctrl+X & Ctrl+V, specify [Target Cell Range] for the copied Action area.

The Action area just after pasting remains the same [Target Cell Range] as that for the original Action area.

	A	В	С	D
1	<b></b>			
2	T			
3				
4				
5				
6	_	_		
7				

# Excel Auto Save Function

The Excel auto save function does not operate due to the Excel restrictions. To save automatically, create the Excel save macro using the following procedure and execute the created save macro by Action.

1 Open a template you want to save automatically using 'Pro-Studio EX'.

Create form using Exce		
		Version 1.22
└ Template Designation		
Please specify the nam When you use the wiz When you create a ne	ne of Excel template file that is the source of forms. ard, the theme template file is copied to a file with t w template, please specify the file name.	this name.
Tompleto Filo	C:\Documents and Settings\Administrator\Desk	ktop/template.xl Reference
Template File	Edit Template	
Output File The template file store	s setting info. The actual output result will be displa	ayed in the following file.
Folder Name	C: Documents and Settings Administrator Desi	Reference
File Name	Report_%Y%M%D.xls	Return to Default Settings
🔽 Start from Displaye	ed State	
Do not save the or (Please use the Sa	utput file when ACTION runs. Ive or Save by Macro of Excel.)	
		OK Cancel

2 Select "Macro" and "Record New Macro" from the "Tools" menu.

lt										
t	Too	ols <u>D</u> ata	<u>W</u> indow	<u>H</u> elp	ExcelAd	tion( <u>A</u>	)			
¥	₩BC ✓	Spelling.	।	F7	f≈ 👌	. 10	, 🕐	* A	rial	•
		<u>A</u> utoCori	rect							
		S <u>h</u> are W	orkbook							
-		<u>T</u> rack Ch	anges	•						
c		Merge 🖄	orkbooks,		F	-		G	Н	
٦		Protectio	'n	•						
	_	O <u>n</u> line C	ollaboratio	n •						
		<u>G</u> oal See	k							
		Sc <u>e</u> nario	s							
		Auditing		+						
		Macro		2	<mark>→ M</mark> ac				Alt	+F8
_		Add-Ins.			• <u>R</u> ec	ord Ne	ew Ma	cro	<u> </u>	
		⊆ustomiz	e	U U	Sec	urity		и	2	
_		Options.			👌 Visu	ial Bas	ic Edit	or	Alt+	F11
					OD Micr	osoft	Script	Editor	Alt+Shift+	F11

 ${\bf 3}\,$  Enter the macro name "Macro1" and click the [OK] button.

Recording the macro starts.

Record Macro		? ×
Macro name:		
Macro1		
Shortcut <u>k</u> ey:	Store macro <u>i</u> n:	
Ctrl+	This Workbook	•
Description:		
Macro recorded	*/*/200* by *****r	
	ок	Cancel

4 Select "Save" from the "File" menu.

"Macro1" is recorded in the macro.



5 Select "Macro" and "Stop Recording" from the "Tools" menu. Recording the macro is complete.

1					
	Too	ols <u>D</u> ata <u>W</u> indow <u>H</u> e	elp	p ExcelAction( <u>A</u> )	
X	ABC V	Spelling F7		🖋 🛃 🛍 🐼 🂝 Arial	1
1		S <u>h</u> are Workbook			
1		Protection	•		
1		O <u>n</u> line Collaboration	•		
~		<u>M</u> acro	,	Alt+F0	
		<u>C</u> ustomize	I	Stop Recording	L
		Options	1	Security	
		×		·	
	_			Yisual Basic Editor Alt+F11	
				🥙 Microsoft Script Editor Alt+Shift+F11	

6 Select "Execution Sequence List" from the "Excel Action" menu.



- 7 Create the trigger condition save automatically.
- 8 Select the created trigger condition and "Excel Operation Function".

🕞 Execution Sequence List							
Execute when Trigger Condition satisfied Execute when Trigger Button clicked Execute from another application							
When Trigger Condition is satisfied, Action is exe	ecuted.						
New Trigger Condition         Please place actions to execute or EXCEL operation commands in ord           Edit         Insert         Clear	New Trigger Condition         Please place actions to execute or EXCEL operation commands in order of execution.           Edit         Insert         Clear						
Trigger Condition 1 2 3 4	5	6					
CreateForm     Excel Operation Function     *							
	OK	Cancel					

9 Select "Execute Macro" and enter the macro name "Macro1".

Excel Operation Function	
C New Sheet	C Print Sheet Sheet Name sheet1
O New Book	
C Show Book	C Hide Book
C Print Book	C Close Excel
Execute Mac	ro Macro1
C Export	
File Name	Report_%Y%M%D%n.csv Default
Saving Fol	der
Saving Format	<ul> <li>CSV(.csv)</li> <li>Export only the last page except Action Report.</li> </ul>
	O HTML(.htm)
	OK Cancel

- 10 Click the [OK] button.
- **11** Finish editing the template.
- $12 \ \, \text{Save/Reload the setting contents.}$

According to the created trigger condition, the template is automatically saved.