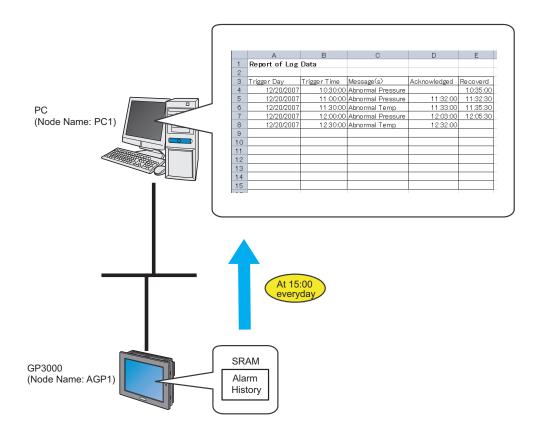
# 9 Arranging GP Log Data in Excel

9.1	Try to Write GP Log Data in Excel	9-2
9.2	Setting Guide	9-26
9.3	Restrictions	9-33

# 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 "31 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 node	Setting item	Setting example
PC	Node Name	PC1
	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.

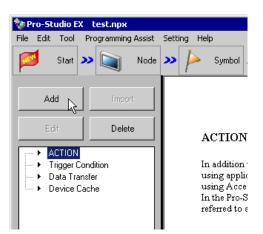
# **Ex.**

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
	File Name	GP log data.xls
Output File	Start with the output file displayed	Checked
	Do not save the output file when ACTION runs.	Not checked

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

🂱 Pro-Studio EX 🛛 test.npx					
File Edit Tool Programming Assist	Setting Help				
Start 🍛 🟹 Node	>> ≽ Symbol >> ≷ Feature >> 📄 Save .				
Sample Wizard On the 2nd time or later, samples will be added to the network. Recipe Recipe Data Logging Send Mail	2-Way Network 2-Way network is a network connecting FA units and in Excel format by acquiring data of the GPs and the v- connected to the GPs, and transmit the information of connection units. Pro-Studio EX				

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/Parameter	×
Add a new ACTION. Specify an ACTION name, and set its parameter.	
ACTION Type Create form using Excel.	•
Create form using Excel. Writes Data to CSV file. Upload of GP JPEG Data. Upload of GP JPEG Data. Upload of GP Log Data. Writes Data to E-Mail. Upload to the database. Download from the database.	
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
Click here
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/Desktopttemplate.x				
	Edit Template				
-Output File The template file sto	Output File The template file stores setting info. The actual output result will be displayed in the following file.				
Folder Name	E: Program Files Pro-face Pro-Server EXWPXDataBase				
File Name	Report_%Y%M%D.xls Return to Default Settings				
🔽 Start from Displa	yed State				
	output file when ACTION runs. 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 inio. I ne actual output result will be displayed in the rollowing rile. Folder Name C:Documents and Settings\AdministratorDesktop Reference				
File Name	Report_%Y%M%D.xls	Return to Default Settings		
<ul> <li>Start from Displayed State</li> <li>Do not save the output file when ACTION runs.</li> <li>(Please use the Save or Save by Macro of Excel.)</li> </ul>				
		OK Cancel		

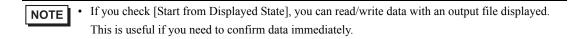
3) Set the file name "GP Log Data.xls" in the [File Name] field for the output file to set.

The template file st	ores setting info. The actual output result will be display	yed in the follo	owing file.
Folder Name	C:/Documents and Settings\Administrator/Desk	top	Reference
File Name	GPLogData.xis	Return to [	Default Settings
🔽 Start from Disp	ayed State		
	e output file when ACTION runs. Save or Save by Macro of Excel.)		
-			
		ж	Cancel

**NOTE** • "%Y%M%D" is preset as "Year/Month/Date". For more details, refer to "37.1 Restrictions on Names".

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

Output File — The template file stores setting info. The actual output result will be displayed in the following file.							
Folder Name	C:\Documents and Settings\Administrator\D	Reference					
File Name	GPLogData.xls	Return to Default Settings					
	ayed State output file when ACTION runs. Save or Save by Macro of Excel.)						
		OK 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.

	A	В	/ c	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					

Target Cell Range



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.

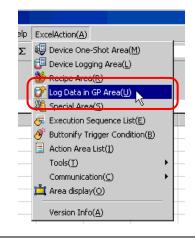
Create form using I	xcel	
		Version 1.10
🕞 Template Designati	n	
When you use the	name of Excel template file that is the source of forms. wizard, the theme template file is copied to a file with this name. a new template, please specify the file name.	
Template File	C:/Documents and Settings\Administrator\Desktop\template.x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

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

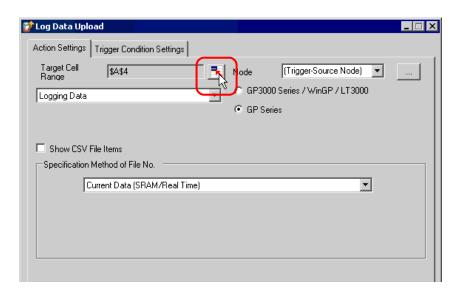
Mi	🔀 Microsoft Excel - template.xlt								
1 🖳 E	jile <u>E</u> dit	⊻iew	Insert	F <u>o</u> rmat	<u>T</u> ools	<u>D</u> ata	<u>W</u> indow	Help	Exce
	<b>-</b>		5   C	l 🗠 🔸		$\Sigma f$	× AL	ii 🛛	
	₫ ₽		abl 🔟	(f ==		╡≜	∄ A		2
-	t 🕄	<b>R</b>	â   🖉	Ø 🛱	f 💕	1 😰	ii 👘		
	A4 🛛	k),		=					
		А		E	3		C	)	
1	Repo	rt of	Log	Data					
2									
2	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.

	📽 🖬 🔒 🚳	a 🛛 🖓	X 🖻 🕻	l - ∭   ⊷ ⊶ ⊂4	- 🥵 Σ - Ž↓	KL   🏙 🐻 1	00% 👻 [
B	≣ ≡   <u>□</u> • <mark>&lt;</mark>	<mark>≫ - A</mark> -		<b>* </b> 🖻	이 ㄴ 떼 기 [		<b>≜</b> ∄ A
	e¤ 👋 🔗 💥	o 🔗 🖓	1	<b>–</b>			
	A4 •	fx					
	A	В		С	D	E	F
3	Trigger Day	Trigger T	imeMe	ssage(s)	Acknowledged	Recoverd	
4							
5							
7							
8		Sc	ecify Ran	le	? >	ส	
9				/ the range.			
10			iease specii ;	/ the range.			
11						$\vdash$	
12						$\vdash$	
13			\$A\$4:\$E\$1			1	
15							
16		*******		ОК	Cancel		
17							
18							
19							

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

💕 Log Data Uplo	Jad				_ 🗆 X
Action Settings	Trigger Condition Settings				
Target Cell Range	\$A\$4:\$E\$13	- <u>-</u>	Node		
GP-PRO/PB L	ogging data (compatible)	-	🖲 GP30	Ind SAGP1 (Trigger-Skyrce 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	pad			_ 🗆 ×
Action Settings	Trigger Condition Setting	gs		
Target Cell Range	\$A\$4:\$E\$13	Node	AGP1	
Alarm Block 1	Data	▼ © GP30	00 Series / WinGP / LT3000	
,		C GP Se	eries	
Alarm Type	C Alarm Active	Alarm History	C Alarm Log	
Show CSV	File Items			
Specification	Method of File No.			
	Current Data (SRAM/Rea	l Time)	•	

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

0,000	ication Method of File No. 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	O New Sheet	O Loop
		OK	Cancel

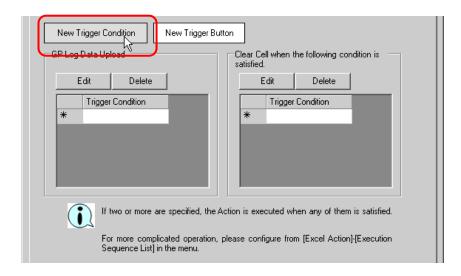
- **3** Set trigger conditions.
  - 1) Click the [Trigger Condition Settings] tab.

💕 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 Upload 📃 📃 🗙
Action Settings Trigger 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 Trigger Condition New Trigger Button
GP Log Data Upload  GP Log Data Upload  Clear Cell when the following condition is satisfied.  Edit Delete  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	m Action
9							2.001101	
10								
11								
12								
13								
14								
15								
16								

3) Click the [New Trigger Condition] button.

Set Trigger Condition 🛛 🛛
Specify a trigger condition of the ACTION.
Tigger 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		
File Edit View Insert Format Tools Data	a <u>W</u> indow <u>H</u> elp ExcelAction( <u>A</u> )	_ & ×
Ctrl+N	}, MUQ * ■ BZU = =	🗉 🗉 + 🕭 + 💥
Ctrl+O		
🛁 📑 Save as Web Page	celFormOcx.FormRangeInfo.1","")	
1 Web Page Preview	_ E F G H I J	K _
2 Web Page Preview		
3 Page Setup		
4 Print Area		
5 Q Print Preview		
6 ∰ Print Ctrl+P		
8 Send To		
9		
10         1         Locuments and Se\exceltablexis.xis           11         2 \Documents and Settings\A\Book1.xis		
11         2 \Documents and Settings\A\Book1.xls           12         3 \Documents and Settings\m\aaaa.xls		
13 <u>4</u> \Documents and Settings\mh\test.xls		
14		
16		
17		
K K K Sheet1		
	la -	
Ready	NUM	

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\Admin	nistrator/De	sktop	Reference
File Name	GPLogData.xls		Return to De	efault Settings
🔽 Start from Display	ed State			
	utput file when ACTION runs. ave or Save by Macro of Excel.)			
			ок	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.

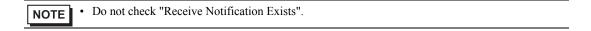
	191
Set ACTION Name/Parameter	×
Add a new ACTION. Specify an ACTION name, and set its parameter.	
ACTION Type Create form using Excel.	
Display the Actions of the old version of Pro-Server	
ACTION Name GPLogData	1
Click here to set the ACTION parameter.	
Next Cancel	

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 Bektive Notification exists	
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	
	lotification Exists
Please s	pecify the notified device that will be informed of uton of the ACTION. After the execution of the
	, it will be is turned on.
	Device Name
	#INTERNAL
	Notified Device
	<u></u>
	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 Dev	vice	
			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.

• 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.



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

-	Pro-Studio B	Х ?.пря		_ 🗆 ×
File	Edit Tool	Programming Assist	Setting Help	
P	🔰 Start	» 🔊 Node	🛿 🎾 Symbol 🍑 ≷ Feature 🍑 📄 Save 🍑 🆄 Transfer	Monitor Status
	Add	Import	ACTION-Specific Trigger Condition/Process List	
	Auu	Import	Add Edit Release Delete	ACTION
	Edit	Delete	Data Source Node AGP1 GPLogData	-
F	- ACTION		Trigger At 15hour0min Data Re	name
		Condition	Completion ReadG Create form using Ext	sel.
	—————————————————————————————————————	idGPLogData ansfer	Set Parame	ter
L.	→ Device	Cache		
			ACTION Node PC1	
L				

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

牧 P	ro-St	udio E	X ?	.пря		
File	Edit	Tool	Pro	gramming	g Assist	
	Start 2				Node	
	Ad	ld		Impo	nt	
	Edit			Dele	te	
	<ul> <li><i>f</i>.</li> <li><i>T</i></li> <li><i>T</i></li> <li><i>T</i></li> </ul>	CTION rigger ( Rea tata Tra tevice I	.ogDa Condi IdGPl ansfe	tion LogData r		

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	Collapse Transfer ACTION/Data
Cut Deele Deeele Deele D	ReadSPLo:       Edt         Node[AGP1       GPLogD         At 15hour0min       GPLogD         Process Co       GPLogD      P

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 "25 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.

	≡ ≡   <u>□</u> • <b>&gt;</b> ₽ <b>&gt;</b> 6 <b>%</b> [5 •	I 🗿 🖬 📝		CX.FormRangeIr	
	A	В	С	D	E
1	Report of Log	Data			
2					
3	Trigger Day	Trigger Time	Message(s)	Acknowledged	Recoverd
4					Ĭ
5					
6					
7					
8					
9					
10	[				Ĭ
11					
12					
13					
14					
15	,				
16					I Ī

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 "26 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	В	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					
1.0					

**NOTE** • If error occurs, you can check the log in the Log Viewer. For more details, refer to "28.5 Monitoring System Event Logs".

• If you want to achieve faster communication during ACTION, refer to "29 Tips for Faster Communication".

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

1.1.2 Setting Guide"

# 9.2.2 "Log Data Upload" Screen

"Action Settings" Tab

Action Settings	Trigger Cond	lition Setting:	s				
Target Cell Range	\$A\$4:\$E	\$13		Node	(Trigger-Sour	ce Node) 💌	
Alarm Block 1 D	ata		•	⊙ GP300	0 Series / WinGP	P/LT3000	
				◯ GP Ser	ies		
Alarm Type	C Ala	m Active	Alarm H	listory	C Alarm Log		
Show CSV F	ile Items						
Specification N	lethod of File	e No. ——					
Cu	urrent Data (S	RAM/Real	Time)			•	
1							
Action when c	ell gets full	Clear a	nd Overwrite	C Scro	I O New 9	Sheet C Loop	0
🔲 In creating	a sheet, cle	ar the specif	ied cell range	e and then st	art.		
						ок (	Cancel

Setting item	Setting content
Target Cell Range	<ul> <li>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.</li> <li>NOTE <ul> <li>Set the target cell range under the following conditions. Row: 65536 or less</li> <li>Column: 256 or less</li> </ul> </li> <li>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.</li> <li>Specify Range</li> <li>Please specify the range.</li> <li>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.</li> </ul> • 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
	"■ Action Area List" in "5.1.2 Setting Guide". Selects a node to read log data.
Node	<ul> <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.
Creatification Mathed of	Specification Method of Sampling Group No.
Specification Method of File No.	Indirect Specification by Device Address Node (Trigger-Source Node)
	Device Name
	Fixed-Numbered File in CF-Card
	Reads out a specified number file from data stored in a CF card of GP. 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.	f you select "Sampling Data" in GP3000 series/WinGP/LT3000, set how to specify a ampling group No. Indirectly Specify Sampling Group No. by Device pecify a sampling group No. by device indirectly. In this case, specify Node, Device Name, and 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>C D</li> </ul> Image: the text of tex of text of text of text of tex
	• 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, $\boxed{\begin{array}{c} A \\ \hline B \\ \hline C \end{array}} \rightarrow \boxed{\begin{array}{c} D \\ \hline B \\ \hline C \end{array}}$
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.          When the specified trigger type (under-condition button) is satisfied, this area is executed.         Please specify a trigger type.         New Trigger Condition
GP Log Data Upload Clear Cell when the following condition is clear Set
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 ConditionDisplays the "Trigger Condition Settings" dialog box. Click here to set a new trigger condition.				
New Trigger ButtonDisplays 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 Cells 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	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.

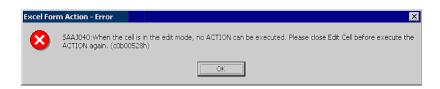
## When setting "Trigger-Source Node"

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		n		
2				
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 Excel		
		Version 1.22
Template Designation —		
When you use the wizar	of Excel template file that is the source of form d, the theme template file is copied to a file wit template, please specify the file name.	
Template File	C:/Documents and Settings\Administrator/De	esktopitemplate.xl Reference
Template File	Edit Template	
-Output File		
The template file stores	setting info. The actual output result will be disp	played in the following file.
Folder Name	C:\Documents and Settings\Administrator\De	esktop
File Name	Report_%Y%M%D.xls	Return to Default Settings
🔽 Start from Displayed	State	
Do not save the out (Please use the Sav	out file when ACTION runs. e or Save by Macro of Excel.)	
		OK Cancel

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

lt									
t	Toc	ols <u>D</u> ata	<u>W</u> indow	<u>H</u> elp	Exce	elAction( <u>A</u>	D		
X	₩BC.	Spelling	. 1	F7	f*	<b>≜</b> ↓ 🛍	ļ 🛛 😤 🗛	rial	•
٦		<u>A</u> utoCorr	ect						
]	_	S <u>h</u> are Wo	orkbook						
-		Irack Ch	anges	•	-				
c		Merge 💹	orkbooks,			F	G	Н	
		Protectio	n	•					
	_	O <u>n</u> line Co	ollaboratio	n •					
		<u>G</u> oal Seel	k		-				
		Sc <u>e</u> nario:	5						
		A <u>u</u> diting		+					
		Macro			+	<u>Macros</u>		Alti	F0
-		Add- <u>I</u> ns.				<u>R</u> ecord N	ew Macro		
		⊆ustomiz	e		4	<u>5</u> ecurity	. <sup>и</sup>	2	
_		Options			<b>2</b> :	⊻isual Bas	ic Editor	Alt+F	=11
					00 I	Vicrosoft	Script Editor	Alt+Shift+F	=11

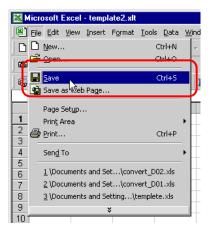
 $\mathbf{3}$  Enter the macro name "Macro1" and click the [OK] button.

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.

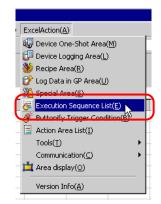
"Macro1" is recorded in the macro.



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>	elp	ExcelAction( <u>A</u> )	
X	ABC V	Spelling F7		🕫 🛃 🛍 😨 💥 Arial	•
		S <u>h</u> are Workbook			
1		Protection	×		
1		O <u>n</u> line Collaboration	۲		
22		<u>M</u> acro	Þ	→ <u>Macros</u> Alt 178	
		<u>C</u> ustomize	T	Stop <u>R</u> ecording	
		Options	1	Security	,
		×		Visual 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 orde           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 F	unation		
Excel Operation F	unction		
C New Sheet	C Print Sheet	Sheet Name sheet	et1
C New Book			
C Show Book	C Hide Book		
O Print Book	C Close Excel		
Execute Mac	ro Macro1		
C Export			
File Name	Report_%	/%M%D%n.csv	Default
Saving Fol	der 🛛		
Saving Format	CSV(.c Export Report	only the last page exce	ept Action
	O HTML(	.htm)	
		ок	Cancel

- 10 Click the [OK] button.
- **11** Finish editing the template.
- 12 Save/Reload the setting contents.

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