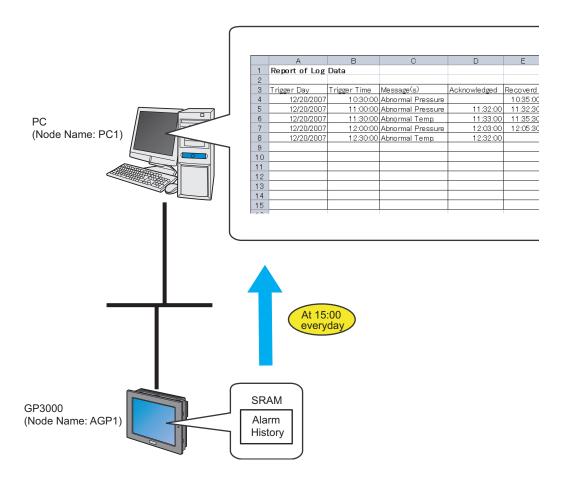
10 Reading GP log data

10.1	Try to Read GP log data	. 10-2
10.2	Setting Guide	10-20

10.1 Try to Read GP log data

[Action Example]

Write the alarm log data stored in SRAM of GP in a CSV 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	Starting 'Pro-Studio EX'	Start 'Pro-Studio EX'.			
2	Registering Entry Nodes	This step registers the PC and the GPs as entry nodes.			
3	Parameter Setting for Feature (ACTION)	This step sets the details of the ACTION parameters.			
4	Setting Trigger Conditions	This step sets log data read conditions.			
	+				
5	Setting Data Received by ACTION	This step sets log data.			
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 GP log data is read when the preset trigger condition has become effective.			

10.1.1 Starting 'Pro-Studio EX'

Start 'Pro-Studio EX'.

Refer to "3 Trial of Pro-Server EX" for more details on how to start.

10.1.2 Registering Entry Nodes

This step registers the PC and the GPs connected with a network as nodes. Refer to "33 Trigger Conditions" for more details on entry nodes.



Node Name	:PC1
IP Address	:192.168.0.1



Node Name :AGP1

IP Address :192.168.0.100

Device/PLC Information



Node Setup Item		Description	
PC	Node Name	PC1	
	IP Address	192.168.0.1	
	Туре	GP3000 Series	
GP	Node Name	AGP1	
	IP Address	192.168.0.100	

10.1.3 Parameter Setting for Feature (ACTION)

This step makes settings to write data in CSV files. (parameter settings) Refer to "10.2 Setting Guide" for more details about ACTION parameter.

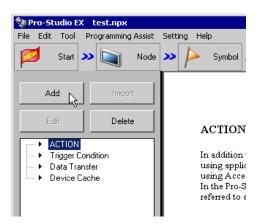
Setting Ex.

Setup Item	Description	
ACTION Name	Log Data Upload	
Reading Source	CF Card Backup Data	
GP Туре	GP3000Series/WinGP/LT3000	
Select Read Data	Alarm block 1	
Save File	Desktop	
Saved File Name	GP Log Data	
Zero Suppress	Applied	
File Save Method	Append Data	
Data is Currently Open	Do not save data	
Saving format	CSV Format	

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

File Edit Tool Programming Assist Setting Help Start >> 🙀 Node >> խ Symbol >> 湕 Feature >> 📄 Sa	Feature 🔉 📄 Save	udio EX test.npx	💱 Pro-Studio E
📁 Start ᇖ 🐚 Node ᇖ խ Symbol ᇖ 湕 Feature ᇖ 📄 Sa	🥊 Feature ≫ 📄 Save	Tool Programming Assist	File Edit Tool
		Start ン 🐚 Node	对 Start
Sample Wizard On the 2nd time or later, samples will be added to the network. Image: Sample Wizard Image: Sample Wizard <td< td=""><td>network connecting FA units and cquiring data of the GPs and the v</td><td>Ind time or later, will be added to the New Form Recipe Data Logging</td><td>On the 2nd time samples will be network.</td></td<>	network connecting FA units and cquiring data of the GPs and the v	Ind time or later, will be added to the New Form Recipe Data Logging	On the 2nd time samples will be network.

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



3 Click the [ACTION Type] list button, and select 'Upload of GP Log Data'. Then, enter the name of ACTION to set in the [ACTION Name] field. In this example, enter "UploadLogData ".

|--|

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 UPEG 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 ACTION parameter] button.

Set ACTION Name/Parameter 🛛 🔀 Add a new ACTION. Specify an ACTION name, and set its parameter.		
ACTION Type Upload of GP Log Data.	•	
Display the Actions of the old version of Pro-Server		
ACTION Name UploadLogData		
Click here to set the ACTION parameter.		

5 Set the read options.

Setting Parameters				
				EX Version 1.22
Read Location:	Node type	Data type:		
C GP SRAM backup data	· · · · · · · · · · · · · · · · · · ·			
 CF CARD backup data 	GP Series	Alarm kind	Active	C History C Log

Setup Item	Description	
Read Location	Check [CF CARD backup data].	
Node type	Check [GP3000 Series/WinGP/LT3000].	
Data type	Select [Alarm block1]	

6 Set the save options.

Save To Folder:	•
C:\ Documents and Settings Administrator	
- Desktop	
File Name:	
GP Log Data	•
Zero Supress C Create new Book	
 Create new book Append data to Book 	
Book is Currently Open	Save form
Do not save data	LS form
C Use Temporary Book	CSV form

Setup Item	Description
Save To Folder	Desktop
File Name	Enter [GP Log Data].
Zero Suppress	Check
Append Data to Book	Check
Book is Currently Open	Check [Do not save data].
Save form	Check [CSV Form] only.

What is %Y%M%D%h%m%s?

Refers to the time when data has been written and this is saved in the format of "Year_Month_Date_Hour/ Minute/Second".

(Example) The file name for which data was written at 9:50:15 on December 15, 2007 becomes "2007_12_15_095015".

Refer to "37.1 Restrictions on Names" for more details.

7 Click the [OK] button.

ProCsv	×
It is effective o	nly when you've checked "XLS form".

8 Click the [OK] button without setting anything.

Setting Parameters Select a Data Write Pattern			
Z , →	И	Ļ	Return
• •	0	0	
Use all cells Use designated range A1	- IV65536	Use Excel sheet	
 Item names are used Item names are not used 			
C Call up Excel display No Excel display			
 Time stamp is used Time stamp is not used 			

NOTE • This setting screen is used only when reading in Excel format.

This is the end of the feature (ACTION) settings.

10.1.4 Setting Trigger Conditions

This step sets a trigger condition to read out device data.

Refer to "33 Trigger Conditions" for more details on trigger conditions.

Setting Ex.

- Trigger Condition Name: Collect at constant intervals
- Trigger Condition : 15:00 daily

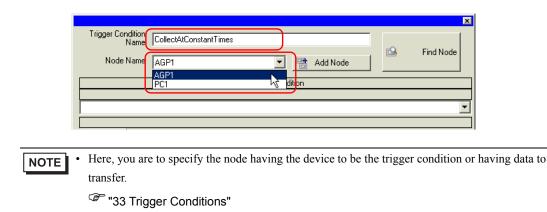
1 On the "Set ACTION Name/Parameter" screen, click the [Next] button.

Se	t ACTION Name/Parameter	x
	udd a new ACTION. pecify an ACTION name, and set its parameter.	
	ACTION Type Upload of GP Log Data.	-
	Display the Actions of the old version of Pro-Server	
	ACTION Name UploadLogData	
	,	
	Click here to set the ACTION parameter.	
	Cancel	

2 Click the [New Trigger Condition] button.

Set ACTION Trigger Condition	×
ACTION Type Upload of GP Log Data.	
ACTION Name UploadLogData	
Specify a trigger condition of the ACTION.	
Trigger Condition	
Edit	

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



4 Click the [Specified Time] button on the [Condition 1] tab, and enter "15:00" in [Specified Time]. Then click the [OK] button.

ondition ⁻				
Specify tł	ne Trigger Condition.			
B	When Turned ON		While Device is ON	While Condition Satisfied
Ü	Specified Time		While Device is OFF	When Condition Satisfied
0	Constant Cycle		When Device ON	When Partner Node ON
Z	When Device Changes		When Device OFF	When Partner Node OFF
Spec	ified Time 15 🐳 hour	0÷ min		

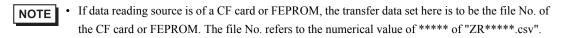
• You can also set trigger conditions by combining 2 different types of conditions ("And" condition or "Or" condition).

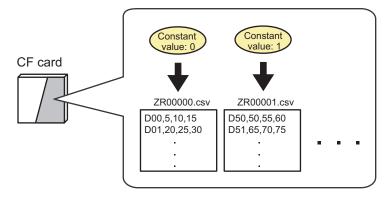
"33 Trigger Conditions"

This is the end of trigger condition settings.

10.1.5 Setting Data Received by ACTION

Specify the data to be transferred during operation of the ACTION.





If you read from the backup SRAM, you can use any value for transfer data.

/Setting Ex./

- Constant value to transfer: 1
- 1 On the "Set ACTION Trigger Condition" screen, click the [Next] button.

Set ACTION Trigger Condition
ACTION Type Upload of GP Log Data.
ACTION Name UploadLogData
Specify a trigger condition of the ACTION.
Trigger Condition
New Trigger Condition
CollectAtConstantTimes Edit
Node AGP1
At 15hour0min
Back Cancel

2 After clicking [Constant Value], enter "1" in the text box for the constant value to transfer and "1" in [Number].

Data settings to be received by ACTION				
ACTION Type Upload of GP Log Data.				
ACTION Name UploadLogData				
From the trigger node, this ACTION				
File No.				
is received as a data to do the ACTION. As the data value, the device value of the trigger node or a constant is available. Specify the data.				
Transfer Source				
Node				
AGP1 Device Name				
#INTERNAL				
C Device Address				
⊡ ▼				
Constant/alue				
1				
Data Type 16Bit(Signed) No 1				
Back Cancel				

NOTE	You can transfer stored values as data by specifying a symbol or a device address.
------	--

This is the end of the setting of data received by ACTION.

10.1.6 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.

Setting Ex.

- ACTION Node : PC1
- Receive Notification: OFF

1 On the "Set Data Received by ACTION" screen, click the [Next] button.

O Device Address
Constant Value
1
Data Type 16Bit(Signed) No. 1
Back Next Cancel

2 Click the list button of [Action Node] and select "PC1" as a node where ACTION operates. Also, clear the check if [Receive Notification Exists] has been checked.

ACTION Node	
PC1 PC1 Rewyve Notification Eyists	
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.	
Device Name	
#INTERNAL 💌	
Notified Device	
Ξ	
Data Type Bit	

NOTE

• When "Receive Notification" is turned on, the specified bit device will be turned on when the ACTION is completed. This can be used as the trigger condition of the subsequent ACTION when you want to execute two or more ACTIONs sequentially.

"33 Trigger Conditions"

3 Click the [End] button.

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

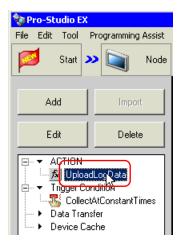
🂱 Pro-Studio EX					
File	Edit	Tool	Pro	ogramming	Assist
	1	Start	>>		Node
	Ad	ld		Impor	t
	Edit Delete				
ACTION Dolognate ACTION AC					

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

10.1.7 Verifying Setting Result

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

1 Select the ACTION name "UploadLogData" from the tree display on the left of the screen.



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

Setting Help	
>> ≽ Symbol >> ≷ Feature >> 📄 Save >> 🖄	Transfer Monitor Status
ACTION-Specific Trigger Condition/Process List	ACTION
Add Edit Release	Delete ACTION
Data Source Node AGP1	UploadLogData 💌
Trigger At 15hour0min Data	Rename
Completion	Upload of GP Log Data.
	Set Parameter
-	ACTION Node

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

🏷 P	ro-St	udio E	x
File	Edit	Tool	Programming Assist
	1	Start	» 🔊 Node
	Ad	ld	Import
	Edit Delete		Delete
		rigger (oadLogData Condition ectAtConstantTimes ansfer

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

Setting Help				
ン ┝ Symbol ⋗ ≷ Feature	» 🔡	Save ≫ 🚺	🤰 Transfer	. Monitor Status
Trigger Condition	Seq	uence Diag	ram by Ti	rigger Condition
		Collapse	Tra	nsfer ACTION/Data
CollectAtCor Edit	Feature	Source	Destinat	Receive/Process Co
Node AGP1	VploadL	AGP1.#>	PC1.Upl	
At 15hour0min				

This is the end of the verification of the settings.

10.1.8 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	: Desktop\g
---	------------------------------	-------------

• Title

- : Desktop\gplog_update.npx : Upload of GP log data
- 10.1.9 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.

10.1.10 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.

	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	1 2:00:00	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					

• If error occurs, you can check the log in the Log Viewer. Refer to "28.5 Monitoring System Event Logs" for more details.

This is the end of the explanation of this ACTION.

10.2 Setting Guide

This section explains how to set the parameters of ACTION.

Detailed Settings

Setting Parameters				
 GP SRAM backup data CF CARD backup data 	Node type GP3000 Series WinGP LT3000 C GP Series	Data type: Alarm block 1 Alarm kind @) Active C History	X Version 1.22
Save To Folder: C: C: Documents and Settings Administrator	V	Template File Local Not use a templ Use a template d:	late file.	
File Name: GP Log Data Zero Supress	V	C D:\ Trogram Files Pro-face Pro-Server E NPXDataBa	×	
C Create new Book Append data to Book Book is Currently Open Do not save data C Use Temporary Book	Save form XLS form			
	Next	Cancel		

Setup Item	Description	
Read Location	Select the reading source either SRAM or CF card.	
Node type	Select the GP type to be a reading source.	
	Select the data to be read out. The following data can be read out.	
	• For GP Series node	
	Logging Data	
	Trend Graph Data	
	Sampling Data	
	Alarm History Data	
	Alarm Log Data	
Data type	Alarm block 1	
	Alarm block 2	
	Alarm block 3	
	Alarm block 4	
	Alarm block 5	
	Alarm block 6	
	Alarm block 7	
	Alarm block 8	

Continued to next page.

Setup Item	Description
Select Read Data	For GP3000 Series node Alarm block 1 Alarm block 2 Alarm block 3 Alarm block 4 Alarm block 5 Alarm block 6 Alarm block 7 Alarm block 8 Sampling Data Refer to the GP Operation manual for more details of each item.
Save File	Specify the save destination folder.
Saved File Name	Specify the saved file name. %Y%M%D%h%m%s (Year/Month/Day/Hour/ Minute/Second) is set as default. File name can be specified indirectly. Refer to "37.1 Restrictions on Names" for more details.
Zero Suppress	If you check this option, no zeros are supplemented in the save file name even though the folder name includes any of "%M%D%h%m%s" (month, day, hour, minute, second) data. If you do not check this option, zeros are supplemented in the file name only when the folder name includes any of "%M%D%h%m%s" (month, day, hour, minute, second) and the numeric value is 1 digit. The default is "checked".
	Select the file save method from the following options.
File Save Method	 Create new Book Append data to Book When using the fixed name to specify the save file name, the data will be written in Sheet2.
Book is Currently Open	Check this option when books with the same file name is open when writing data. Select either [Do not save data] or [Use Temporary Book]. When you check [Do not save data], the written data will not be saved and deleted. If you check [Use Temporary Book], the written data will be temporarily saved under a separate filename (The temporary filename will be "%Y%M%D%h%m%s.xls").
Save form	You can select Excel file format (.xls) or text file format (.csv). You can select both file formats. In that case, files in each format will be created.
Template File Location	 Specify if you use the template or not. When you specify using the template, specify the drive folder of the template and the template file name. NOTE The specified template file should contain only Sheet1. When you specify CF card as the source to be read, you need to specify the uploading file No.

Detailed Settings (Write Settings)

Setting Parameters			
Select a Data Write Pattern			
Z, →		Ļ	Return
• · ·	0	0	
Use all cells Use designated range A1 Item names are used Item names are not used	IV65536	Use Excel sheet	
 Call up Excel display No Excel display 			
Time stamp is used Time stamp is not used			

Setup Item	Description
Select a Data Write Pattern	Set the write direction of the read data.
Write Data Range	Select either [Use all cells] or [Use designated range]. When you select [Use designated range], set the cell range within which data will be written.
Item name.	Select either [Item names are used] or [Item names are not used]. When you select [Item names are used], the log data item name will be entered.
Call up Excel display	Select either [Call up Excel display] or [No Excel display].
Time Stamp	Select either [Time stamp is used] or [Time stamp is not used]. When you select [Time stamp is used], the time when data is written will be entered.

• When CSV is selected as the data save format, the [Template] and [Data write] patterns cannot be selected. Settings are fixed to [Data write]:[Z] type, [Use all cells], [Item names are not used], and [Time Stamp is not used].