10 Reading the display unit's log data

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10.1 Uploading the display unit's log data

[Action Example]

Every day at 15:00, write the display unit's alarm log data stored on the CF Card to CSV file



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



[Setting Procedure]

1	Starting 'Pro-Studio EX' (page10-4)	Start 'Pro-Studio EX'.
2	Registering Entry Nodes (page10-4)	This step registers the PC and the display units as entry nodes.
3	Parameter Setting for Feature (ACTION) (page10-5)	This step sets the details of the ACTION parameters.
4	Setting Trigger Conditions (page10-10)	This step sets log data read conditions.
	+	
5	Setting Data Received by ACTION (page10- 12)	This step sets log data.
6	Setting ACTION Node/Process Completion Notification (page10-14)	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 (page10-16)	This step verifies setting results on the setting content list screen.
8	Saving a Network Project File (page10-18)	This step saves the current settings as a network project file and reloads.
9	Transferring a Network Project File (page10- 18)	This step transfers a saved network project file to the display unit.
10	Executing ACTION (page10-19)	This step verifies that the 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 display units connected with a network as nodes. Refer to "33 Trigger Conditions" for more details on entry nodes.



Node	Name	:PC1
IP Add	lress	: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
Display Unit	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 Type	GP4000/LT4000 Series / GP3000 Series / 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.

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

 $2\,$ 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 ".

NOTE • [ACTION Name] can be an arbitrary name.	
---	--

Set ACTION Name/Parameter	×
Add a new ACTION. Specify an ACTION name, and set its paramete	er.
ACTION Type Create form using Excel.	•
Create form using Excel. Writes Data to CSV file. ACTION Name 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 database.	se.
	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.)
Click here to set the ACTION parameter.)

5 Set the read options.

Setting Parameters					
Read Location: Odd type	Data type:		EX	Version 1.30	
C GP SRAM backup data	 GP3000 Series WinGP 	Alarm block 1			•
 CF CARD backup data 	LT3000 C GP Series	Alarm kind	C Active	C History	C Log

Setup Item	Description	
Read Location	Check [CF CARD backup data].	
Node type	Check [GP4000/LT4000 Series / 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 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 X
It is effective only when you've checked "XLS form".

8 Click the [OK] button without setting anything.

Setting Parameters						
Select a Data Write Pattern						
		¢	Return			
Use all cells Use designated range IV65536 Use Excel sheet						
 Item names are used Item names are not used 						
 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

 $1 \ \ \, \text{On the "Set ACTION Name/Parameter" screen, click the [Next] button.}$

Call ACTION Name (Development)	~
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.	
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	
New 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.

Condition 1					
Specify th	ne Trigger Condition.				
5	When Turned ON		While Device is ON		While Condition Satisfied
Ġ	Specified Time		While Device is OFF		When Condition Satisfied
0	Constant Cycle		When Device ON		When Partner Node ON
	When Device Changes		When Device OFF	8	When Partner Node OFF
Specified 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.

/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].

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



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 Red Sive N	otification Eyists
Please s the exec ACTION,	pecify the notified device that will be informed of ution of the ACTION. After the execution of the it will be is turned on.
	Device Name
	#INTERNAL
	Notified Device
	Ⅲ
	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.



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	
» 찯 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
	Upload of GP Log Data.
	Set Parameter
L	ACTION Node
	PC1

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	Pro	Programming Assist		
	1	Start	>>		Node	
Add Import				rt		
Edit				Dele	te	
ACTION UploadLogData Troger Condition CollectAtConstantTimes Data Transfer Device Cache						

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

Setting Help				
🥕 Symbol 😕 襓 Feature	» 📄	Save ≫ 🕻	V Transfe	r Monitor Status
Trigger Condition	Sec	juence Dia <u>c</u>	jram by Ti	rigger Condition
	• •	Collapse	Tra	nsfer ACTION/Data
	Feature	Source	Destinat	Receive/Process Co
Node AGP1	UploadL	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.

Setting Ex.

• Path of network project file

: Desktop\gplog_update.npx

Title

: 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 a CSV file (file name: "GP Log Data.csv"), and then writes the log data of display unit.

						_
	A	В	С	D	E	
1	Report of Log	Data				
2						
З	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						

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

• When output to Excel, the date uses the "20yy/mm/dd" (or "19yy/mm/dd") format. However, when the CSV file on the CF card does not use the "yy/mm/dd" date format, the date format will be different.

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		
Read Location: GP SRAM backup data C CF CARD backup data	Node type GP4000 Series GP3000 Series WinGP LT3000 C GP Series	EX Version 1.30 Data type: Alarm block 1
Save To Folder: C: Program Files Pro-face Pro-Server EX NpxDatabase File Name: 2/1%M%D%h%m%s Create new Book Create new Book Append data to Book	V A V	Template File Location: Not use a template file. Use a template file C: Program Files Pro-face Pro-face NpxDatabase
Book is Currently Open Do not save data C Use Temporary Book	Save form XLS form CSV form Next	Cancel

Setup Item	Description
	Select the location of data to upload.
Read Location	 GP SRAM backup data Read data on the display unit's SRAM. CF CARD backup data Read data on the display unit's CF/SD Card.
Node type	Select the display unit model to read from.

Setup Item	Description
	Select the data to read.
	For GP Series node
	Logging data
	Trend data
	Sampling data
	Alarm history data
	Alarm log data
	Alarm block 1
	Alarm block 2
	Alarm block 5
	Alarm block 5
	Alarm block 6
-	Alarm block 7
Data type	Alarm block 8
	For GP4000/LT4000 Series, GP3000 Series, WinGP, LT3000 node
	Alarm block 1
	Alarm block 2
	Alarm block 3
	Alarm block 4
	Alarm block 5
	Alarm block 6
	Alarm block /
	Alarm block 8 Sompling data
	GP-PRO/PB Trend graph data (compatible)
	GP-PRO/PB Sampling data (compatible)
	GP-PRO/PB Logging data (compatible)
Save To Folder	Specify the save destination folder.
	Specify the saved file name. %Y%M%D%h%m%s (Year/Month/Day/Hour/
File Name	Minute/Second) is set as default. File name can be specified indirectly. Refer to
	"37.1 Restrictions on Names" for more details.
	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,
7 0	minute, second) data.
Zero Suppress	If you do not check this option, zeros are supplemented in the file name only when the folder name includes any of " $0'$ M $'$ D $'$ h $'$ m $'$ c" (month day have
	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].
	deleted If you check [IJse 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").
	You can select Excel file format (.xls) or text file format (.csv). You can select
Save form	both file formats. In that case, files in each format will be created.

Setup Item	Description
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.
	 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			
$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \right \xrightarrow{\circ}$		¢	Return
Use all cells Use designated range A1	- IV65536	Use Excel sheet	
 Item names are used Item names are not used 			
 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].

10.3 Restrictions

Restrictions on reading Alarm and Sampling Data on the CF Card

- In GP-Pro EX, use "yy/mm/dd" for the date format. When the CSV file on the CF card does not use "yy/mm/dd" for the date format, the wrong date may be output.
 When output to Excel, the date uses the "20yy/mm/dd" (or "19yy/mm/dd") format.
- When using a version of GP-Pro EX before V3.12, or a version of Pro-Server EX before V1.32, do not use the [Set number of files in destination folder on external storage] option in GP-Pro EX. You cannot read files stored [Alarm] or [SAMP**] sub-folders.

Restrictions on reading Alarm and Sampling Data in SRAM

• Regardless of the date format defined in GP-Pro EX, dates are handled with the "yy/mm/dd" format. When outputting to Excel, the date format is "20yy/mm/dd" (or "19yy/mm/dd").