# 17 Writing GP Filing Data in Excel

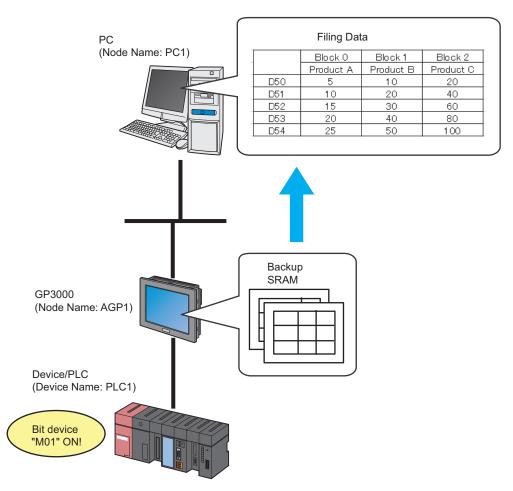
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# 17.1 Try to Write GP Filing Data in Excel

```
NOTE • Refer to the 'GP-Pro Ex Reference Manual' for more details about filing data.
```

#### [Action Example]

Detect the rising of the trigger device (bit device: "M01") of Device/PLC, read filing data saved in the backup SRAM of GP, and write the data into an Excel file.



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

# [Setting Procedure]

1	Starting 'Pro-Studio EX'	This step starts 'Pro-Studio EX'.
2	Registering Entry Nodes	This step registers the PC and the GPs as entry nodes.
3	Registering Symbols	This step registers as a symbol the device of Device/ PLC which serves as a trigger condition (trigger).
4	Parameter Setting for Feature (ACTION)	This step sets the following items: • Reading Source • GP Type • Save File • Saved File Name • Save Form
5	Setting Trigger Conditions	This step sets conditions (trigger) to read filing data out.
6	Setting Data Received by ACTION	This step sets data to transfer.
7	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.
8	Verifying Setting Result	This step verifies setting results on the setting content list screen.
9	Saving a Network Project File	This step saves the current settings as a network project file and reloads.
10	Transferring a Network Project File	This step transfers a saved network project file to the GP.
<u> </u>		·
11	Executing ACTION	This step verifies that filing data is written in Excel format when the preset trigger condition has become effective.

#### 17.1.1 Starting 'Pro-Studio EX'

This step starts 'Pro-Studio EX'.

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

#### 17.1.2 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

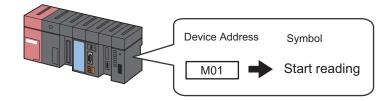
**Device/PLC Information** 



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	

### 17.1.3 Registering Symbols

This step registers as a symbol the device address of Device/PLC which serves as a trigger condition. Refer to "32 Symbol Registration" for details about entry nodes.

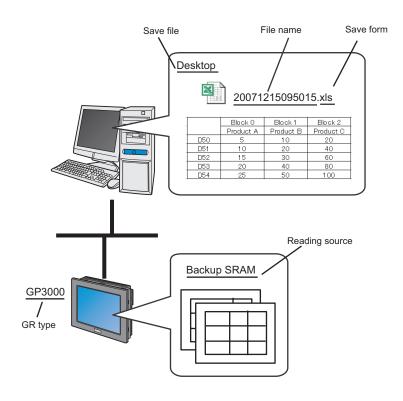




Setting item	Setting content
Symbol Name	Start reading
Data Type	Bit
Device address for symbol registration	"M01" of Device/PLC (PLC1)
No. of Devices	1

# 17.1.4 Parameter Setting for Feature (ACTION)

This step makes settings to read filing data out. (Parameter settings) Refer to "17.2 Setting Guide" for more details about ACTION parameters.





Setting item	Setting content
ACTION Name	Filing data upload
Reading Source	Filing data in the backup SRAM of GP
GP Type	GP3000 series
Save File	PC Desktop
Saved File Name	%Y%M%D%h%m%s (Year/Month/Day/Hour/Minute/ Second)
Zero Suppress	OFF
Save Form	Excel file (.xls)

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

2	) Pro	-Sti	udio E	X t	est.npx									
Fi	ile E	Edit	Tool	Pro	grammin	g Assist	Sett	ing	l He	lp				
	<b>1</b>		Start	<b>»</b>		Node	<b>&gt;&gt;</b>	1		Symbol	<b>x</b>	Feature		Save
Г	-Sym	bol						I	N	lode Name	AGP1	K	De	vice Nam
		G	iroup		U	ngroup		I	S	heet Name	Sheet3			tasa qlo
		h	nsert		C	)elete		I	Ŭ					

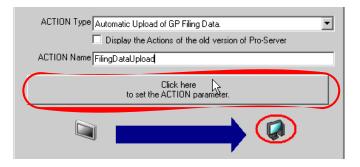
2 Select [ACTION] from the tree display on the left of the screen, then click the [Add] button.

🅎 P	ro-St	udio E	X t	est.npx				
File	Edit	Tool	Pro	grammin	g Assist	Setti	ing He	elp
	1	Start	<b>&gt;&gt;</b>		Node	<b>»</b>	$\triangleright$	Symbol .
	• • T • • D	R.	Condi ansfe	r			I u u I	ACTION asing applic asing Acce: n the Pro-S eferred to a

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

Set ACTION Name/Parameter 🛛 🛛 🛛 🛛 🛛
Add a new ACTION. Specify an ACTION name, and set its parameter.
ACTION Type Automatic Upload of GP Filing Data.
ACTION Name Writes Data to E-Mail. Upload of GP Log Data. ACTION Name Writes Data to E-Mail. Upload to the database. Download from the database. Start Application. Automatic Upload of GP Filing Data Automatic Deveload of GP Filing Data
Next Cancel

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



5 Check [Read filing data from GP Backup SRAM] in [Read from].

Setting Parameters		
	GP type GP Series GP 4000 Series GP 3000 Series WinGP LT 3000	EX Version 1.30
Save Folder:		Cancel
C:  Program Files  Proface  Pro-face  Pro-Server EX  NoxDatabase		
	File's Save format.	
Save Name:	Excel file (.xls)	
%Y%M%D%h%m%s	🔽 Binary file ( .bin )	
Zero Supress Reset	CSV file ( .csv )	

6 In the [GP type] area, select the [GP4000 Series/GP3000 Series/Win GP/LT3000] option.

Setting Parameters		
Read from Read filing data from GP Backup SRAM C Read filing data from CF Card	GP type C GP Series GP4000 Series	EX Version 1.30
Read filing data from GP FEPROM	GP3000 Series WinGP LT3000	
Save Folder		Cancel

7 Set "Desktop" for [Save Folder] as a folder to store the file to write data in, with the default file name "%Y%M%D%h%m%s".

Save Folder:	L'an	icel
🖃 c: [C-DRIVEENG]		
C:\ Documents and Settings		
Desktop		
	File's Save format.	
Save Name:	Excel file ( .xls )	
(%Y%M%D%h%m%s	🔽 Binary file ( .bin )	
Zero Supress Reset	CSV file ( .csv )	

8 Turn off the [Zero Suppress] check box, if checked.

Save Folder:	Cancel
🖃 c: [C-DRIVEENG]	
C:\ C:\ C:\ Administrator Desktop	
	File's Save format.
Save Name:	Excel file (.xls)
%Y%M%D%h%m%s	🔽 Binary file ( .bin )
Reset	CSV file ( .csv )

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 "YearMonthDateHour/Minute/ Second".

(Example) The file name for which data was written at 9:50:15 on Dec. 15, 2007 becomes "20071215095015".

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

9 Check [Excel file (.xls)] in [File's Save format.] for the format of the file to which data is written.

Save Folder:		L'ancel	
🖃 c: [C-DRIVEENG]	<b>T</b>		
C:\ Documents and Settings Administrator Desktop	▲ 		
		File's Save format.	
Save Name:		Excel file (.xls)     Sinary file (.bin)	
Zero Supress	Reset	CSV file ( .csv )	

#### 10 Click the [OK] button.

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

# 17.1.5 Setting Trigger Conditions

This step sets conditions (trigger bit ON) to read filing data out. Refer to "33 Trigger Conditions" for details about trigger conditions.



- Trigger Condition Name: Turn on read start bit
- Trigger Condition : When "Start reading" (M01) is ON

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 Automatic Upload of GP Filing Data.	-
Display the Actions of the old version of Pro-Serve	er
ACTION Name FilingDataUpload	
Click here to set the ACTION parameter.	
	D
Next	Cancel

2 Click the [New Trigger Condition] button.

Set ACTION Trigger Condition
ACTION Type Automatic Upload of GP Filing Data.
ACTION Name FilingDataUpload
Specify a trigger condition of the ACTION.
Trigger Condition
New Trigger Condition
Node
( )
Back Next Cancel

3 Enter the trigger condition name "TurnOnReadStartBit" in [Trigger Condition Name], and select "AGP1" in [Node Name] which has the device to serve as the trigger condition.

Trigger C	ondition Name TurnOnReadStar	104			<b>`</b>	1
		tBit				Find Node
Nod	PC1		Add N	lode		
	AGP1		lition			
Condition *	1					
Specify th	he Trigger Condition.					
5	When Turned ON		While Device is ON		While Conditi	on Satisfied
Ġ	Specified Time		While Device is OFF		When Conditi	on Satisfied
0	Constant Cycle		When Device ON		When Partne	r Node ON
	When Device Changes		When Device OFF	8	When Partne	Node OFF
				1		
			Detail Settings		OK	Cancel

• Here, you are to specify the node having the device to be the trigger condition. 33 Trigger Conditions"

4 Click the [When Device ON] button in the [Condition 1] tab and select "PLC1" for the device name.

Condition 1	
Specify the Trigger Condition.	
👫 When Turned ON 🔤 While Device is ON 🙀 While Condition Satisfied	
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	
Device Name Turn DFF the Specified Device Address after Processing. Data Type 16Bit(Signed)	
Limited Time Offer Check Cycle Check Cycle Always	
Detail Settings OK Cancel	

5 Click the [Device Address] list button and select "StartRead" for the symbol name of the device which serves as the trigger.

R	When Turned ON	While Device is ON		While Condition Satisfied
Ġ	Specified Time	While Device is OFF	<b>1</b>	When Condition Satisfied
0	Constant Cycle	When Device ON		When Partner Node ON
	When Device Changes	When Device OFF	*	When Partner Node OFF
<u></u> ,			NR	
Device N PLC1		 Turn OFF the Specified Processing.		
		 Turn OFF the Specified		

[Data Type] automatically appears after selection, too.

Device Name
PLC1
Device Address
E StartRead
Data Type Bit
Limited Time Offer

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

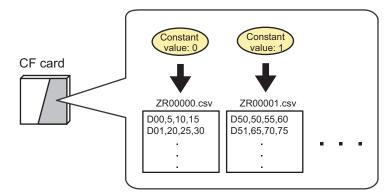
6 Click the [OK] button.

This is the end of trigger condition settings.

# 17.1.6 Setting Data Received by ACTION

This step sets data to transfer in ACTION.

**NOTE** • If a data reading source is of a CF card or FEPROM, the transfer data set here is to be the file No. of the CF card or FEPROM. The file No. refers to the numerical value of \*\*\*\*\* of "ZR\*\*\*\*\*.csv".



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



• Constant value to transfer: 1

1 On the "Set ACTION Trigger Condition" screen, click the [Next] button.

Set ACTION Trigger Condition 🛛 💌
ACTION Type Automatic Upload of GP Filing Data.
ACTION Name FilingDataUpload
Specify a trigger condition of the ACTION.
Trigger Condition
New Trigger Condition
StartRead  Edit
Node AGP1
When StartRead of Node AGP1 is Turned ON
Back Cancel

2 After clicking [Constant Value], enter "1" in the text box for the constant value to transfer and "1" in [No.].

Data settings to be received by ACTION
ACTION Type Automatic Upload of GP Filing Data.
ACTION Name FilingDataUpload
From the trigger node, this ACTION
Data of action
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
<u>₩</u>
Constant Value
Data Type 16Bit(Signed) No. 1
Back Next Cancel

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

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

#### 17.1.7 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 "Data settings to be 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	
Reugra N	letification Exists
the exec	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
	Data Type Bit

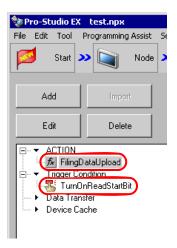
NOTE

• When "Receive Notification Exists" 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"

#### $\mathbf{3}$ Click the [Complete] button.

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



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

#### 17.1.8 Verifying Setting Result

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

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



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

Ì		_ 🗆 ×
ł	telp	
	Symbol >> ≷ Feature >> 📄 Save >> 🆄	Transfer Monitor Status
	CACTION-Specific Trigger Condition/Process List	ACTION
	Add Edit Release	Delete ACTION
	Data Source Node AGP1	FilingDataUpload 💌
I	Trigger When StartRead of Node AGP1 is T	Rename
	Completion	Automatic Upload of GP Filing Data.
		Set Parameter
l		ACTION Node
		PC1

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



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

lelp				
Symbol 🔉 ≷ Feature 🔉 📑	Save ン	Manual Transfe	r	Monitor Status
Trigger Condition	Seq	uence Diag Cond		Frigger
		Collapse	Transfer /	ACTION/Data
TurnOnRea 🔽 🗕 Edit	Feature 9	Source	Destinat	Receive/Proces
Node AGP1	FilingDat A	AGP1.#>	PC1.Fili	
When StartRead of Node AGP1				

This is the end of the verification of the settings.

# 17.1.9 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.

# **Ex.**

• Path of network project file

 $: Desktop \FilingData\_upload.npx$ 

• Title

: Filing data upload action

# 17.1.10 Transferring a Network Project File

This step transfers a saved network project file 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.

#### 17.1.11 Executing ACTION

This step verifies that enabling a trigger condition activates ACTION and writes the backup SRAM filing data of GP on PC desktop as an Excel file.

	A	В	С	D	
1	FILING DA	TA			
2	Description	File no. 1			
3	No of Data	3			
4	No of Data	5			
5					
6	Data Forma	0			
7	Display For	0			
8	Code	0			
9	BlockO	Block1	Block2		
10	ProductA	ProductB	ProductC		
11	5	10	20		
12	10	20	40		
13	15	30	60		
14	20	40	80		
15	25	50	100		
16					
17					

This is the end of the explanation of this ACTION.

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

NOTE

# 17.2 Setting Guide

This section explains how to set the parameters of ACTION.

Setting Parameters		
Read from © Read filing data from GP Backup SRAM	GP type GP Series	EX Version 1.30
<ul> <li>Read filing data from CF Card</li> <li>Read filing data from GP FEPROM</li> </ul>	GP4000 Series GP3000 Series WinGP LT3000	ОК
Save Folder:	Cancel	

Setting item	Setting content
Read from	<ul> <li>Selects a read from filing data.</li> <li>NOTE</li> <li>If read out from GP4000 Series/GP3000 Series/WinGP/LT3000, you cannot select [Read filing data from GP FEPROM].</li> <li>If you select [Read filing data from CF Card], the transfer data is to be the folder No. For example, if the transfer data is "2", the data of "ZE0002.BIN" in a CF card is read out.</li> <li>If you select [Read filing data from GP FEPROM], the transfer data is to be the folder No. For example, if the transfer data is "2", the data in folder No. "2" in internal memory is read out.</li> <li>Even if [Read filing data from CF Card] is selected, you cannot read filing data on models that do not have a CF/SD card slot.</li> </ul>
GP Type	<ul> <li>Selects the series name of the GP for reading filing data.</li> <li>GP Series</li> <li>Selects if the reading source is of GP Series.</li> <li>GP4000 Series/GP3000 Series/WinGP/LT3000</li> <li>Selects if the reading source is of GP4000 Series, GP3000 Series, WinGP, or LT3000.</li> </ul>
Save Folder	Selects a folder to save read out filing data. C drive (C:) folder is to appear for initial setting. To change the drive to display, click the list button to select new one.
Save Name	<ul> <li>Sets a file name to save.</li> <li>"Y%M%D%h%m%s" is to appear for initial setting. If you do not change the file name, time data of PC is to set for "%" position.</li> <li>NOTE</li> <li>By specifying a macro code for the file name to save, you can set the file name as a node name or device data.</li> <li>"37.1 Restrictions on Names"</li> </ul>
Zero Suppress	If you set the save file name as "%Y%M%D%h%m%s" and check this item, the digit 0 in "%" is not displayed. (Example) The file name which is written at 7:31 when specifying the save file name as "%h%m" Checked: •••731•••.xls Not checked: ••0731•••.xls
Reset	Returns [Saved File Name] to default ("%Y%M%D%h%m%s").

Setting item	Setting content
File's Save format	<ul> <li>Selects the saving format of read out filing data.</li> <li>Excel file (.xls)</li> <li>Saves in Excel book format.</li> <li>Binary file (.bin)</li> <li>Saves in binary file format. However, you cannot edit data saved in this format.</li> <li>CSV file (.csv)</li> <li>Saves in CSV file format.</li> </ul> <b>NOTE</b> <ul> <li>When saving in CSV file format, a PFG file storing the header information of a CSV file will be created in the folder where filing data is stored. <ul> <li>An uploaded CSV file is saved in the folder of the same name as the PFG file.</li> </ul></li></ul>