3 Trial of Pro-Server EX

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	Starting 'Pro-Studio EX' Trial of New Form Trial of Recipe Function Trial of Logging Funtion Trial of Send Mail Function

3.1 Starting 'Pro-Studio EX'

Operating the data management system using 'Pro-Server EX' requires network setting of the Device/PLCs and functions to be used (Network project file creation).

'Pro-Studio EX' is used to create a network project file.

After having set up, start 'Pro-Studio EX'.

3.1.1 Start 'Pro-Studio EX'

- **1** Turn on the PC power to start Windows.
- 2 Click the [Start] button on the task bar. Point "All Programs" or "Programs" --- "Pro-face" --- and "Pro-Server EX", and then click "Pro-Studio EX".

٢	Set Program Access and Defaults									
*	Windows Update									
	Programs	•	Ē	Pro-face	►	Ē	Pro-Server EX	Þ 💼	Manual (Help)	►
	-	_	Ē.	Startup	•		×	LOG	2Way Log Viewer	
	Documents	۲	Õ	Internet Explorer		\square		<u>1</u>	Device Access Log	
Fh	Settings		<u></u>	Outlook Express		L		<u>i</u>	Device Monitor	
ALAN .	Securgs	ſ		×		L		٩	Environment Setup	
	Search	×						1	Exit Pro-Server EX	
~								٢	Pro-Server EX	
<i></i>	Help								Pro-Studio EX 🛛 📐	
	Run							1	Status Monitor	
<u> </u>	- Sanni							2	Symbol Monitor	
	Shut Down							3	Uninstall	
	Shace of the state							_		_

'Pro-Studio EX' will start and the opening screen will appear.







At the same time, the "Online Update Service" screen will appear.

When you receive the online update service, check "Yes, Checking Update Module at the program startup phase" and click [OK].



After a while, the start screen will appear with the "Open Network Project File" screen.

Pro-Studio EX ?.npx	
File Edit Tool Programming Assist	Setting Help
Start 🌺 💟 Node	>> 🔑 Symbol >> ≷ Feature >> 📄 Save >> 🆄 Transfer
Sample Wizard A new network will be constructed. Select a sample.	Open Network Project File
Recipe Image: Control of the second secon	New PC that is able to create forms bus FA units (connection units) database of Access, etc. to the
Send Mail	Open File
Device-to-Device Communication	s of network such as the he units and the PC connected in which these settings are
Monitor Device Status	
Debug Tool	
Reference Manual	the Pro-Studio EX, allowing the GPs and the PC to operate at the same setting.
	×

Then proceed to manipulate on the "Open Network Project File" screen.

How to close 'Pro-Studio EX'			
On the start screen, click "Files" on t	the menu bar, and select "Ex	kit" fro	m the pull-down menu.
🂱 P	ro-Studio EX 🥂 ?.npx		
File	Edit Tool Programming A	ssist S	Setting
N	lew Ipen	lode .	~
S. S. V Ir Pr E: In	ave ave As nput History at Save Time rint xport Nodes and Symbols mport Nodes and Symbols		
	xit Norman Send Mail		

Startup of 'Pro-Server EX' (Normal Mode)
While operating 'Pro-Studio EX', if communication is required between the PC and the GP, the following message to request startup of 'Pro-Server EX' will appear. In this case, click the [Yes] button and start 'Pro-Server EX'.
Find Node Pro-Server EX will start to communicate with another node. Is that OK?
After 'Pro-Server EX' has started, the Pro-Server EX icon will appear in the task tray. 'Pro-Server EX' is always active (resident) unless you close it.
To close 'Pro-Server EX' (resident cancellation), right-click the icon in the task tray and select 'Close Pro- Server EX' from the menu.
Load Network Project Start Pro-Studio EX Tools ACTION b
Pro-Server EX Environment Settings Network Setting About
Exit Pro-Server EX

NOTE	•	You can also start 'Pro-Server EX' as Windows service. Refer to "30 Starting 'Pro-Server EX' in the
		Service Mode" for more details.

• When you set the starting method of 'Pro-Server EX' to "Service Mode", it is different to how to close 'Pro-Server EX'. Refer to " 30.1.2 Starting and Closing 'Pro-Server EX' in the "Service Mode"".

3.1.2 Selecting Network Project File

After the program has started, the "Open Network Project File" screen will appear in front of the start screen.

Open Network Project File	
New	
Open File	
Recent File	

On this screen, choose whether to create a new network project file or use an existing network project file.

Creating New File

When you use 'Pro-Server EX' for the first time or you want to create a new network project file, click the [New] button.

Using Existing File

When you want to use an existing network project file, click the [Open File], and select the file to use in the "Open Files" dialogue.

If you find the file name of the network project file you want to start on the list of "Recent File", click the file name on the list.

(Follow the same procedures above when you want to edit an existing network project file.)

The network project file you selected through the operations above will open, and the "Opening Network Project File" screen will close.

3.1.3 Start Screen of 'Pro-Studio EX'

The following explains about the start screen.



(1) Title bar

Displays the currently open network project file's name.

The file name of a new document is denoted as '? .npx'.

(2) Menu bar

Displays the menu to be used to operate 'Pro-Studio EX'. Clicking this bar displays the pull-down menu.

(3) Status bar

Displays necessary setting items for creating a network project file in a form of icon. Clicking the icon displays the corresponding setting screen.



Clicking this icon displays the start screen. At an initial startup, the start screen will appear without clicking this icon.



Clicking this icon displays the entry nodes setting screen. You can register or delete entry nodes on this screen.



Clicking this icon displays the symbol setting screen. You can register, delete or group symbols on this screen.



Clicking this icon displays the feature setting screen. You can register or set an ACTION item and content of data transfer, as well as register cache on this screen.



Clicking this icon displays the save setting screen. You can save the network project file you set on this screen.



Clicking this icon displays the transfer setting screen. You can transfer the network project file you set to the GP from this screen.



Clicking this icon displays the monitoring setting screen. You can monitor the current status of the PC and the Device/PLCs on this screen.

(4) [Sample Wizard]

'Pro-Server EX' has built-in "Sample Wizard" that allows you to learn how to set frequently used ACTION items such as form creation and recipe.

Clicking each item button activates the 'Sample Wizard' corresponding to the clicked item, and the "Sample Wizard" screen will appear.

Pointing each item button with mouse cursor will display a guide to the wizard of the pointed item in the task area (7).

(5) [Program Design]

Displays a guide to setting items and operation procedures of useful features in programming. Pointing each item button with mouse cursor will display a guide to the pointed item in the task area (7). Clicking each item button displays a detailed guide to the clicked item.

(6) [Reference Manual]

Displays the 'Pro-Server EX Reference Manual' (this manual).

(7) Task Area

Displays the guide to each item pointed by mouse cursor. On the setting screen, this area is used as a setting area.

3.1.4 Before Learning

Device data to use in "Sample Wizard"

The "Sample Wizard" does not use device data of the Device/PLCs. Instead, it accesses to the memory space in the GP (referred to as "LS area") and performs read/write.

Before learning with the "Sample Wizard", ensure that the PC in which 'Pro-Server EX' is installed is connected to the GP as shown below.



NOTE

You can use each menu to edit the contents set in the "Sample Wizard" after the wizard ends.

- Node --- "Node" Menu
- Symbol ---- "Symbol" Menu
- Trigger Condition, Feature (ACTION) --- "Feature" Menu

3.2 Trial of New Form

3.2.1 What is a New Form Function?

Pro-Server EX allows creating various forms including a management chart and a report according to the purpose by writing production data and measurement data read from the Device/PLCs into the pre-created form template in 'Excel'.

'Pro-Studio EX' is provided with approximately 30 kinds of form formats as "Form Templates". These formats allow you to easily create various forms. The following shows one of those forms.

Production Management Chart (Tabular form)

Production Manage	oduction Management Board (per Day)						
Time	Cumulative Planned Num.	Cumulative Result Num.	Result Num./H	Difference/H	Problems		
Early Morning							
9	100						
10	200						
11	300						
12	400						
13	500						
14	600						
15	700						
16	800						
17	900						
Overtime							

You can edit the format of "Form Templates" as you desire using 'Excel'. You can also create a new template and add it to the existing templates.

For more details, see "5 Creating a Form Using Excel".

Flow of Form Creation

(1) Decide which device address data in the Device/PLC should be written in each cell of the form template in 'Excel'. Allocate each cell for the data beforehand.



(2) Using 'Pro-Studio EX', execute action setting of the form creation function, including setting data of the device address to output and requirements for outputting forms.

(3) At a specific timing or at a specific interval, the data of each device address of the Device/PLC is written in the allocated cell of the form template.



3.2.2 Workflow from Settings to Form Creation

The following explains about the operation flow from setting to creating a sample form using the "Form Creation" wizard.



This step selects a form format to create from the form templates.

Creation of Network Project File (Operation of "Sample Wizard")

STEP 2 Registering Entry Nodes

This step selects a form format to create from the form templates.

STEP 3 Registering Symbols

This step registers device addresses of the GPs as symbols.

STEP 4 Setting Trigger Condition

This step sets conditions for executing form output (trigger condition).

STEP 5 Setting Feature (ACTION)

This step sets an ACTION item and the output destination and file name of a form to create.

STEP 6 Verifying Setting Result and Form Template

This step verifies the setting result on the "Sample Wizard Setting Result" screen and templates.

STEP 7 Saving Network Project File

This step saves the current settings as a network project file and reloads.

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

STEP 9 Writing Device Data

This step writes the data to the output file after the trigger condition set in STEP4 has become effective.

3.2.3 For 'Microsoft Excel 2007' Users

When using 'Microsoft Excel 2007', refer to the following notes.

Notes on Excel's Version Compatibility

In the "Form Creation" wizard, a template file is created with the extension (xls or xlt) for 'Microsoft Excel 2003' or older.

To use a function supported only by 'Microsoft Excel 2007' during edition of the template file created based on the "Form Creation" wizard, you need to save the template file as xlsx (xlsm) or xltx (xltm).

Save the template file again according to the following steps, since you cannot specify the extension to save it in the Form Creation Action.

- 1 Close the Excel Form Creation Action.
- 2 Check the template file with the following two points.
 - Whether it includes the macro program or not
 - File format (Book or Template)
- **3** Open the template file with 'Microsoft Excel 2007' and save it again using the extensions based on the table below.

Tei	mplate File	Extensions used for saving				
Macro	File Format	With Excel 2007 functions	Without Excel 2007 functions			
Not	Book Format	Extension for the template: xlsx	Extension for the template: xls			
included		Extension for the output book: xlsx	Extension for the output book: xls			
	Template Format	Extension for the template: xltx	Extension for the template: xlt			
		Extension for the output book: xlsx	Extension for the output book: xls			
Included	Book Format	Extension for the template: xlsm	Extension for the template: xls			
		Extension for the output book: xlsm	Extension for the output book: xls			
	Template Format	Extension for the template: xltm	Extension for the template: xlt			
		Extension for the output book: xlsm	Extension for the output book: xls			

4 Again, specify the file which has been saved again in step 3 as the template file in the Excel Form Action editing.

- **5** Set the extension for the output file according to the extension types above.
- 6 Edit the template file and save the Action.

• Use the compatibility check function of 'Microsoft Excel 2007' to check that the form which has been created using the function only supported by 'Microsoft Excel 2007' can be opened with 'Microsoft Excel 2003' or older. Refer to "5.8 Compatibility between 'Microsoft Excel 2007' and 'Microsoft Excel 2003' or Older" for more details.

Notes on File Format

When using the following sample wizards with 'Microsoft Excel 2007' including the functions specific to 'Microsoft Excel 2007', you need to specify "xlsm" (book file format with macro enabled) as the extension for the output book.

- Setup Work Planning and Result Management Board
- Setup Work Transition Graph
- Monthly Equipment Short-Time Stop Transition Graph (daily/weekly/monthly/yearly)
- First Run Rate Transition Graph (daily/weekly/monthly/yearly)
- Reduction of Man-hour Transition Graph
- Production Process Stock Days Transition Graph
- Reduction of Production Cost Transition Graph

3.2.4 Creating a Form

This section helps you to learn necessary settings efficiently for creating a form by simply following the instructions of the "Form Creation" wizard of the "Sample Wizard" to actually create a sample form.

Example of Sample Form Created with this Wizard

	A B C	D	E	F	G	Н	- I
1	Excel0 ⁴	I Production	n Manager	nent Boai	rd (per Day	()	
2							-
3	Time	Cumulative Planned Num.	Cumulative Result Num.	Result Num./H	Difference/H	Problems	
4	Sarly Morn	ing					
5	9	100					
6	10	200					
7	11	300					
8	12	400					
9	13	500					
10	14	600					
11	15	700					
12	16	800					
13	17	900					
14	Overtime						
15							
17	Time to	set Result Num.		1			
18	Readout Cun	nulative Result Num		Execute			
19							
20	Debug(Cun	ulative Result Num)					
22				1			
23	Debu	g(Time to set)					
24				1			

• Form creation needs 'Excel' preinstalled on the PC. Before getting started, ensure that 'Excel' is installed on the PC.

STEP 1 Selecting Form Template

This step selects a form template to create.

1 On the start screen, click the [New Form] button in the [Sample Wizard].

🏷 P	ro-St	udio E	X ?	лря				
File	Edit	Tool	Pro	ogramm	ing	Assist	Sett	ing
	1	Start	>>			Node	»	1
Sa A co	ample new n onstruc	Wizaro etwork sted. S	i : will l elect	be a samp	le.			
	è	Ne	ew Fo	orm	2		L	
	0 9	F	Recip	е			L	
	\$	Data	a Log	Iging			L	
E	2	Se	end M	lail				

NOTE • Pointing each item button in the "Sample Wizard" with mouse cursor will display an explanation to the wizard of the pointed item in the task area.

2 The "New Form" wizard starts. The form template selection screen will appear. Scroll the screen by moving the scroll bar and select the form format you want to output.

In this example, select the "Production Management Per Day".

New Form 🛛
Sample: New Form
To actualize this sample, Node, Symbol, Action, and Trigger Condition must be set in the network project. This wizard automatically generates them.
Select a form you want to create.
(Production Management Board (per Day)
Management table to organize the planned num. and result num. of production per day.
C Production Management Board (per Month)
Management table to organize the planned num. and result num. of production per month.
Caution To use this feature, Microsoft Excel is required.
Next Cancel

NOTE • Clicking the form thumb nail display will enlarge the format on the monitor.

Click the [Next] button.

i ç ab		
C Production Manager	nent Board (per Month)	
L -1(1)-1(1)-(1)-1(1)-1(1)-1(1)-1(1)-1(1)	Management table to organize the planned num, and result num, of production per month.	•
Caution To use this feat	ure, Microsoft Excel is required.	

This is the end of selecting a form template. The entry nodes setting screen will appear.



Proceed to "STEP 2 Registering Entry Nodes".

STEP 2 Registering Entry Nodes

This step registers the PC and the GPs as entry nodes in 'Pro-Studio EX' to allow the PC to read the data.

What is Entry Node?

In order to read and write the data of the Device/PLCs using 'Pro-Server EX', the information of the PC and the GPs connected via network must be registered in the network beforehand.

The PC and the GPs registered are referred to as an "Entry node".

Pro-Server EX Node

Register the PC to be used for execution of various features of 'Pro-Server EX'.

GP4000 Series Node

Register the GP4000 series displays and the Device/PLCs connected to the GPs to be used for data write/read. Up to four models (protocols) can be registered per one GP4000 series node. Up to 32 units of the connection units can be registered per one protocol (depending on the protocol).

• GP3000 Series Node

Register the GP3000 series displays and the Device/PLCs connected to the GPs to be used for data write/read. Up to four models (protocols) can be registered per one GP3000 series node. Up to 32 units of the connection units can be registered per one protocol (depending on the protocol).

GP Series Node

Register the GP2000 series displays, GLC series displays, and Factory Gateway to be used for data write/read. One model (protocol) can be registered per one GP series node.

WinGP Node

Register the WinGP series displays and the Device/PLCs connected to the IPC to be used for data write/read. Up to four models (protocols) can be registered per one WinGP series node. Up to 32 units of the connection units can be registered per one protocol (depending on the protocol).

LT3000 Node

Register the LT-3000 series displays and the connection units connected to the LTs to be used for data write/ read. Up to four models (protocols) can be registered per one LT3000 node. Up to 32 connection units can be registered per one protocol (depending on the protocol).



 Register the PC currently used (PC for creating a form) as an "Action Node". In this wizard, select [Yes].

 To create a form, a PC on the network has to be specified for creation and registered as a participation node. 	
Do you want to create with this PC?	
Node Name PC1	
© No will be created with	
 A form is composed of two or more device values, and the node having the devices (Data Source Node) has to also be registered on the network as a participation node. 	
As a Data Source Node	
_	
A new NODE is registered. (Device/PLC is set to Memory Link.)	
Node Name Sample_Node IP Address 172, 21, 1, 102	
C A new NODE is registered, (Device/FEC is specified.)	•

The PC currently used is set as an "Action Node", named as "PC1".

2 Register the GP being connected as a "Data Source Node".

Select the [A new NODE is registered. (Device/PLC is set to Memory Link)], and enter the IP address of the GP.

as a participation no	ode.		ecilieu foi creation anu	-
Do you want to c	reate with this PC	?		
• Yes	Node Name	PC1		
No	1	7	will be created	
-A form is composed	d of two or more (device values, a	nd the node having the	devices
-A form is composed (Data Source Node	d of two or more () has to also be r	device values, a registered on the	nd the node having the network as a participat	devices ion node.
-A form is compose (Data Source Node As a Data Source	d of two or more () has to also be r Node	device values, a registered on the	nd the node having the network as a participat	devices ion node.
-A form is composed (Data Source Node As a Data Source	d of two or more () has to also be r Node	device values, a registered on the	nd the node having the network as a participat	devices ion node.
-A form is composed (Data Source Node As a Data Source	d of two or more () has to also be r Node DE is registered. ()	device values, a registered on the Device/PLC is s	nd the node having the network as a participat et to Memory Link.)	devices ion node.
-A form is compose (Data Source Node As a Data Source A new NOD Node Name	d of two or more () has to also be r e Node DE is registered. () Sample_Node	device values, a registered on the Device/PLC is s IP Addre	nd the node having the network as a participat et to Memory Link.) ₂₅₈ 192, 168, 0, 100	devices ion node.
-A form is compose (Data Source Node As a Data Source A new NOI Node Name	d of two or more () has to also be r e Node DE is registered. (Sample_Node	device values, a registered on the Device/PLC is s IP Addre	nd the node having the network as a participat et to Memory Link.) _{sss} [192, 168, 0, 100	devices ion node.

NOTE

• For how to check IP address set in the GP, see "2.4 Setting GP Network".

• If you select a Device/PLC other than Memory Link, select [A new NODE is registered. (Device/ PLC is specified.)].

The "Data Source Node" is set to the address above.

3 Click the [Next] button.



This is the end of registering entry nodes necessary for creating a form.

Proceed to "STEP 3 Registering Symbols".

STEP 3 Registering Symbols

This step registers a device address including data necessary for creating a form as a "Symbol".

In this wizard, the memory space ("LS area") in the GP is symbol-registered.



1 Check the [The symbols will be registered as data-source-node symbols.] check box, and then enlarge or scroll the screen to confirm the preset symbol.

New Form
Sample: New Form Production Management Board (per Day)
Node 🍑 ≽ Symbol ≫ ≷ Feature ≫
Edit symbol details in the Symbol Screen
after the sample wizard ends.
-To create a form, two or more data source devices have to be specified. In the form of the selected sample, the devices have already been specified by their symbol names.
Supplement: In the initial condition, the address of a registered symbol is set to the internal device of the data source node. In the sample, the internal device is assigned as a tentative setting.
Back Next Cancel

Symbol Name	Data Type	Address	
Excel01_Cumu	16Bit(Signed)	3001	
_Excel01_Write	16Bit(Signed)	3002	
Excel01_Uploa	Bit	300000	

NOTE • If you select a Device/PLC other than memory link, a temporary address is set.Click on the calculator icon and change it to the actual address.



$2 \ {\rm Click \ the \ [Next] \ button.}$

Symbol Name	Data Type	Address	
S_Excel01_Cumu	16Bit(Signed)	3001	
S_Excel01_Write	16Bit(Signed)	3002	
S_Excel01_Uploa	Bit	300000	
		. (
		Back	Next Cancel
		Back	Next Can

This is the end of registering symbols necessary for creating a form. The trigger condition setting screen will appear.

Proceed to "STEP 4 Setting Trigger Condition".

STEP 4 Setting Trigger Condition

This step sets conditions for executing form output (trigger condition).

In this wizard, the trigger condition of detecting a rise of "Upload Start_BIT" is preset.



1 Confirm the content of the trigger condition in the [Set Trigger Condition].

-In Pro-Server EX, various actions caused by arbitrary "Trigger Conditions" are available. Pro-Server EX manages the "Trigger Conditions" separately giving each of them an arbitrary name.				
Trigger Condition Name Set Trigger Condition	T_Excel01 When the Start Upload Bit turns ON, device data is inserted			
	۲			

2 Click the [Next] button.

-In Pro-Server EX, various actions caused by arbitrary "Trigger Conditions" are Pro-Server EX manages the "Trigger Conditions" separately giving each of them arbitrary name.	available. 1 an
Trigger Condition T_Excel01	- 1
Set Trigger Condition	serted
Back	Cancel

This is the end of setting a trigger condition necessary for creating a form. The ACTION setting screen will appear.

Proceed to "STEP 5 Setting Feature (ACTION)".

STEP 5 Setting Feature (ACTION)

This step sets functions (ACTION) to use. This step sets an ACTION item and the output destination folder and file name of a form to create.

What is ACTION?

In addition to the access to the devices, 'Pro-Server EX' allows advanced processing using application software, for example creating a form using 'Excel' and creating a database using 'Access'. In the 'Pro-Server EX', the advanced processing in the PC using application software is referred to as "ACTION".



1 Enter the output destination (folder) of the file of a form to create in the [Form Destination Folder] field. Click the [Browse] button. On the "Refer to Folder" screen, specify the output destination folder.

-Pro-Server EX can execute any pre-registered ACTION.		
This Sample Form is also executed as one of such ACTIONS		
An ACTION requires an ACTION name. Specify an ACTION name.		
ACTION Name Action1		
Form Destination Folder Browse		
Form Output File Name XYXMXD%h%m%s.xls		

- The ACTION name can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.
- * You can type the folder name. In this case, begin the name with a drive name of the PC, e.g. "C:\My Documents".
- **2** Enter the output file name in the [Form Output File Name] field.

In this trial, enter "Production Management".

-Pro-Server EX can execute any pre-registered ACTION.			
This Sample Form is also executed as one of such ACTIONS			
An ACTION requires an ACTION name. Specify an ACTION name.			
ACTION Name Action1			
Form Destination Folder C:\Documents and Settings\Administrator\Desktop Browse			
Form Output File Name ProductionManagement			

3 Click the [Next] button.

	An ACTION requires an ACTION name. Specify an ACTION name.
	ACTION Name Action1
	Form Destination Folder C:\Documents and Settings\Administrator\Desktop Browse
	Form Output File Name ProductionManagement
l	
	Back Cancel

This is the end of setting an ACTION item necessary for creating a form. The screen that explains the procedures to follow (saving and transferring network project file) will appear. You can read the explanations how to save and transfer the network project file on the screen.

4 Click the [Complete] button.



This completes the "Sample Wizard".

Then the save setting screen will appear.

Studio EX 2 ppv					
File Edit Tool Programming Assist	Setting Help				
💋 Start ン 🟹 Node	>> 🔑 Symbol >>	≷ Feature ン	📄 Save ン 🕻	V Transfer	Monitor Status
	Basic Info History Info				
Save					
Save/Reload	Network Project file Path				Browse
Create BAK File	Title				
Input Password at Save Time	Related Document (F	Registered in the follow	ving area by dropping l	the file. Started by click	ing the file.)
	Trelation millio	The Name	Toldel		
Set Password					

At this time, the "Sample Wizard Setting Result" screen and the form template file (ProduceManagementPerDay.xlt) in Excel format are also created.



Proceed to "STEP 6 Verifying Setting Result and Form Template".

STEP 6 Verifying Setting Result and Form Template

This step opens the "Sample Wizard Setting Result" screen to verify the setting result.

1 Click the "Sample Wizard" in the task bar of the PC.



The "Sample Wizard Setting Result" screen will appear.

🚰 Sample Wizard: - Microsoft Internet Explo	er						
File Edit View Favorites Tools Help							
🕞 Back + 🕞 + 💌 🛃 🐔 🔎 5	earch 📌 Favorites 🔗	🙈 • 📐	m - 🗔 /	*			
Address E Dog ments and Settings) Owner/Des	kton\Action1.html	<u>~ ~</u>		-	T 🖾 Go Links		
Hourses P. L. (Documents and Securitys (Owner (Des	Acop (Acool 12 ment						
Sample Wizard Setting Result							
Production Management	Board (per Day)						
Creation Date and Time:Tuesday, Nover	nber 13, 2007 6:24:47 PM	I.					
Node							
	Iode Name		Node Type		IP Address		
Operation Node P	C1		Pro-Server EX		172.21.3.38		
Trigger Node S	ample_Node		GP3000 Serie	s	172.21.3.39		
Symbol	[
Symbol Name	Node Name	Data T	ype	Device Address	Comment		
S_ExcelUI_Upload_BII	Sample_Node	Bit		300000	Bit to order the start of Upload		
S_Excel01_CumulativeNumber_WORD	Sample_Node	16Bit(;	Signed)	3001	Device storing the Cumulative Result Number		
S_Excel01_WriteDestination_WORD	Sample_Node	16Bit(:	Signed)	3002	Device storing the Time Data to set the Cumulative Result Number		
Trigger Condition							
	1 15-1						
Londition Ivane Condition Translot UNext the Start Haland Bit turns OM during data in instand into the cell							
	viten ale sourt opfond Dit	101115 OI4, G	ovice wata 15 11	Berses mey file cell.			
ACTION							
ACTION Name A	.ction1						
E Done					My Computer		

 $2\,$ Scroll the screen and verify that the settings have been correctly entered.



3 After having verified, click the [x] (close) button to close the screen and click the [-] (minimize) button to minimize the screen.

```
• When created, the "Sample Wizard Setting Result" file will be automatically saved in the output destination folder set in procedure 1 of "STEP 5 Setting Feature (ACTION)". The file name is "(the ACTION name set in procedure 1 of STEP 5).html".
```

Proceed to opening the form template in 'Excel' to verify the setting result.

4 Open the form output destination folder set in procedure 1 of "STEP 5 Setting Feature (ACTION)" and doubleclick the Excel form template (ProductManagementPerDay.xlt).



Verify that the correct form template selected in "STEP 1 Selecting Form Template" is created.

1000	diama an O. Francel	DurchustManage						
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3	TIME	Planned Num.	Result Num.	Num. /H	DITTerenceyn	Problems		
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5	9	100						
6	10	200						
7	11	300						
8	12	400						
9	13	500						
10	14	600						
11	15	700						
12	16	800						
13	17	900						
14	Overtime							
15								
17	Time to se	t Result Num.		L				
18	Readout Curnul	lative Result Num		Execute				
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20	Debug(Cumula	ative Result Num)						
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23	Debug(1	l ime to set)						
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	()) \Templ	ate / Explanation	1					
17 18 19 20 21 22 23 24 25 26 I◀ •	Debug(Cumula Debug(Cumula Debug(1	time to set)	 /			[4]		



Proceed to "STEP 7 Saving Network Project File".

STEP 7 Saving Network Project File

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

1 Enter a save destination folder and a save file name in the [Network Project file Path] field.

Click the [Browse] button to specify the save destination folder. On the "Save As" screen, enter the save file name in the [File Name] field, and then click the [Save] button.

asic Info History Ir	nfo			
Network Proj	ect C:\Documents and	Settings\Administrator\D)esktop\productmanagement.npx	Browse
T	fitle			
D I + 10	ent (Registered in the	following area by dro	pping the file. Started by clicking	the file.)
Related Docume				



2 Enter the title of the network project file in the [Title] field.

Basic Info History Ir	nfo			
Network Proj file P	ect[C:\Documents and ! ath	Settings\Administrator	\Desktop\productmanagement.np	x Browse
C	itle productmanagemer	t_071113		
Related Docume	nt (Registered in the	following area by dr	opping the file. Started by click	ing the file.)
Relation-Info	File Name	Folder		

3 Click the [Save/Reload] button.

牧 P	ro-St	udio E	X p	oroject.r	рх			
File	Edit	Tool	Pro	grammin	g Assist	2		
	1	Start	>>		Node	:		
	Save							
\square		Sav	e/Re	load				
Create BAK File								
Input Password at Save Time								
	Set Password							

The setting result is saved as a network project file.

What is Reload?
'Pro-Server EX' performs data read/write, etc according to the settings of the network project file. Reload is an operation to make 'Pro-Server EX' recognize the created network project file. Clicking the [Save/Reload] button activates 'Pro-Server EX', execute reload, and display the screen below.
Reload Image: Control of the second secon
Click the [OK] button.

At the same time, the "Action Report" screen will appear.

In this screen, working history such as how this ACTION output to the output file is always recorded.

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	A	В	С	D	E	F	G	Н		J	К	
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2							Format	V1.00				
3		Template S	heet Informa	tion								
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5		1 Template	1	Template								- 1
6		2 Explanation	1	Explanation								
7	ļ											_
8			L A	Action Area Infor	mation							-
10	No.	Template Sheet Name	Count of Writes	Name of Last Sheet Written to	Area ID	GROUP Name	Count of Data of Last Sheet	Last Write Tim	e			
11												
12												- 1
14												
15												
16									_			_
17												- 1
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RÍ -		\ Template / Explar	ation Action	Report /								IÈ.
Re	ady								NUM			

4 Click the [Transfer] button.

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» 🔡	Save 😡	Tra	nsfer		Monitor Status
ettings\Admir	iistrator\Desk	top/productm	anagement.n;	ox E	Irowse
L060430					
ollowing are Folder	a by droppi	ng the file. S	tarted by clic	king the file	<u>.)</u>

The transfer setting screen will appear.

Proceed to "STEP 8 Transferring Network Project File".

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

1 Turn on the check box of the entry node to which the network project file will be transferred. In this wizard, check "Sample_Node", which is the data source node set in procedure 2 of "STEP 2 Registering Entry Nodes".

Node Name	IP Address	Actual Device	No.	Build No.	Last Transfe
Sample_Node	192.168.0.100	Unconfirmed			

2 Click the [Transfer to Another Node] button.

铃 P	ro-St	udio E	X p	project.	прх		
File	Edit	Tool	Pro	ogrammir	ng Assist	S	
	1	Start	>>		Node	2	
\subset	Tra	nsfer ti	o Ano	other Noc	le	l	
	D	elete N	etwo	ん rk Projec	:t	l	
	Confirm Online Node						
						l	

 $\mathbf{3}$ On the "Transfer to Another Node" screen, click the [Yes] button.


The "Transfer Network Project" screen will appear, transferring the network project file to the entry node checked in procedure 1.

Transfer Network Project
Status: [2007/11/13.18:17:37] Start Consistency Check of the Network Project. [2007/11/13.18:17:37] Check Symbol [2007/11/13.18:17:37] Network Project Size
GP3000 Series / WinGP / LT3000 = 1348 bytes (max. 262144 bytes) [2007/11/13 18:17:37] The network project is normal. 1/1 Sample_Node:Transferring]
Each Node:
Total:
Close

Click the [Close] button to close the "Transfer Network Project" screen.

• The network project file cannot be transferred if each entry node is not in on-line status (if communication is not active). Before transfer, always click the [Confirm Online Node] button and confirm each node is in on-line status.

🌯 P	ro-St	udio E	X p	roject.	пря	
File	Edit	Tool	Pro	grammin	ng Assist	S
	1	Start	>>		Node	2
	Tra De	nsfer ti elete N	o Ano etwo	ther Noc rk Projec	le t	
\subset	C	Confirm	Onlin	ie Node		

Proceed to "STEP 9 Writing Data to Forms".

STEP 9 Writing Data to Forms

This step writes the data to the output file after the trigger condition set in "STEP 4 Setting Trigger Condition" has become effective.

In this trial, you can confirm that the data will be written to the output file.

1 Open the output destination folder of the form set in procedure 1 of "STEP 5 Setting Feature (ACTION)" and then open the Excel file whose file name set in procedure 2.

	e 0e 1		10 0 4					
	nicrosoft Excel	- ProductManage	mentPerDay1					
	<u>File Edit View</u>	Insert Format I	ools <u>D</u> ata <u>W</u> indo	w <u>H</u> elp				
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	K27 💌	=						
	A B C	D	E	F	G	Н	1	J <u>K</u>
1	Excel01	Productio	n Manager	nent Boa	rd (per Day	()		
3	Time	Cumulative Planned Num.	Cumulative Result Num.	Result Num./H	Difference/H	Problems		
4	Sarly Morning							
5	9	100						
6	10	200						
7	11	300						
8	12	400						
9	13	500						
10	14	600						
11	15	700						
12	16	800						
13	17	900			_			
14	Overtime							
15								
17	Time to set	t Result Num.		_				
18	Readout Curnul	ative Result Num.		Execute				
20	Debus(Consta	vius Danudi Mussi)						
21	Debug(cullula	iuve nesult nullij						
22				1				
24	Debug(T	ime to set)						
25								
	()) \Templa	ate / Explanation	/			•		्रा में स्टब्स् स्टब्स्
Rea	ady	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	,			·	NUM	

2 Store the values for debugging in the memory spaces in the GP, "S_Excel01_Accum Qty_WORD" and "S_Excel01_Write Destination_WORD".

In this trial, enter any reasonable values in the "Debug (Cumulative Result Num)" and "Debug (Time to set)" and then click the each debug button. The values will then be stored in the memory spaces "S_Excel01_Accum Qty_WORD" and "S_Excel01_Write Destination_WORD" of the GP, respectively.



• The values to input the Debug (Time to Set) field should be from 9 to 17. This value is used to specify the row to which the accumulative quantity will be written.

3 Click the [Execute] button.

Trigger Condition bit "T_Excel01" is automatically turned ON.

That allows Trigger Condition to set and New Form ACTION to operate, and then the output file is created.

The values stored in the memory spaces "S_Excel01_Accum Qty_WORD" and "S_Excel01_Write Destination_WORD" of the GP will be written in Excel form. Verify that the cell of the accumulative quantity at 9

o'clock shows "103".

	А	в	С	D	E	F	G
1	E	cce	e l01	Productio	nent Boar	d (per Day	
2							
		Ti	me	Cumulative	Cumulative	Result	Difference/H
3				Planned Num.	Result Num.	Num. /H	2111010100,11
4	larl	Ly B	forning				
5		S)	100	103	103	3
6		1	0	200			
7		1	1	300			

4 After having verified the form, click the [x] (close) button.

This is the end of creating a sample form using the "Sample Wizard".

3.3 Trial of Recipe Function

3.3.1 What is a Recipe Function?

'Pro-Server EX' allows writing data created beforehand using application software such as 'Excel', or data in CSV format to an arbitrary device of the Device/PLC.

Flow of Recipe Creation

(1) Create a sheet (recipe sheet) of data to be written to the Device/PLC in Excel format.

		А	В	С	D	E	
	1		D000	D001	D002	D003	Device address
	2	1	13	28	32	47	
	3	2	25	40	54	69	
	4	3	37	52	66	81	
Record No.							

(2) Execute action setting of the recipe function, for example setting a write destination of data and requirements for writing data using 'Pro-Studio EX'.

(3) At a specific timing or at a specific interval, the data of preset record No. in the recipe sheet is written to the device address of the Device/PLC.

(Example) Writing the data of record No. "1" of the recipe sheet to the device addresses "D000" to "D003".



3.3.2 Workflow from Settings to Write Data

The following explains about the operation flow from setting to device data write using the "Recipe" wizard.



STEP 6 Verifying Setting Result and Recipe Sheet

This step verifies the setting result on the "Sample Wizard Setting Result" screen and the created recipe sheet.

STEP 7 Saving Network Project File

This step saves the current settings as a network project file and reloads.

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

STEP 9 Writing Device Data

This step writes the data to the output file after the trigger condition set in STEP 4 has become effective.

3.3.3 Writing the Device Data

This section helps you to learn necessary settings efficiently for writing data by simply following the instructions of the "Recipe" wizard of the "Sample Wizard" to actually write data to the GP.

• Recipe sheet creation in Access format or Excel format needs 'Access' or 'Excel' preinstalled on the PC. Before getting started, ensure that necessary software is installed on the PC.

STEP 1 Selecting Data Format of Recipe Sheet

This step selects the data format of a recipe sheet to create.

In this trial, create a recipe sheet in 'Excel' format.

Creating Recipe Sheet (Sample)

Before using the recipe function, you must create a recipe sheet on which device data to be written to the Device/PLC are entered. In this wizard, the sample recipe sheet will be automatically created and stored in the folder specified by the wizard.

1 On the start screen, click the [Recipe] button in the [Sample Wizard].



The "Recipe" wizard starts. The data format selection screen will appear.



2 Select the data format of a recipe sheet to create. In this trial, select "Excel".

Select a data type of the recipe.	
C Access	
Caution: To edit AccessMDB, Microsoft Access is re	equired.
Comma-Deliminated Text (CSV Format)	
C Excel	
Caution: To use this feature, Microsoft Excel is requi	ired.
	Next Cancel

Click the [Next] button.

Select a data type of the recipe.
C Access
Caution: To edit AccessMDB, Microsoft Access is required.
C Comma-Deliminated Text (CSV Format)
 Excel
Caution: To use this feature, Microsoft Excel is required.

This is the end of selecting a data format. The entry nodes setting screen will appear.

NOTE • The following explanation assumes that "Excel" is selected on the data format selection screen. Note that if "Comma-Deliminated Text (CSV Format)" or "Access" is selected, the screens and settings are different from the followings.

Proceed to "STEP 2 Registering Entry Nodes".

STEP 2 Registering Entry Nodes

The setting items are the same as those in the "New Form" wizard above. See "STEP 2 Registering Entry Nodes" in "3.2.4 Creating a Form". If you have tried another wizard and registered entry nodes already, you can skip this procedure. Click the [Next] button and proceed to "STEP 3 Registering Symbols".

Proceed to "STEP 3 Registering Symbols".

STEP 3 Registering Symbols

This step registers the device address to which data will be written as a "Symbol".

In this wizard, the symbol is preset in the device ("LS area") of the GP.

1 Check the [The symbols will be registered as data-source-node symbols.] check box, and then enlarge or scroll the screen to confirm the preset symbol.

Recipe	×
Sample: Recipe in Excel Format	
Node 🍑 🍐 Symbol 🇪 ≷ Feature ≫	
Edit symbol details in the Symbol Screen	
after the sample wizard ends.	
-To execute Recipe, two or more copy destination devices have to be specified. In the Recipe of the selected sample, the devices have already been specified by their symbol names.	
Supplement: In the initial condition, the address of a registered symbol is set to the internal device of the data source node. In the sample, the internal device is assigned as a tentative setting.	
Back Next Cancel	

Symbol Name	Data Type	Address	
5_Recipe03_Rec	16Bit(Signed)	2191	
5_Recipe03_Writ	16Bit(Signed)	2192	

2 Click the [Next] button.

Symbol Name	Data Type	Address		
S_Recipe03_Rec	16Bit(Signed)	2191		
 S_Recipe03_Writ	16Bit(Signed)	2192		
S_Recipe03_Do	Bit	219000		-
 		Back	Next Canc	el
	-			

This is the end of registering symbols necessary for data write. The trigger condition setting screen will appear.

Proceed to "STEP 4 Setting Trigger Condition".

STEP 4 Setting Trigger Condition

This step sets conditions for executing data write (trigger condition).

1 Select a trigger condition in the [Set Trigger Condition] field. Here, select "Data is written to the device when the Start Download Bit turns ON".

-In Pro-Server EX, various Pro-Server EX manages th arbitrary name.	actions caused by arbitrary "Trigger Conditions" are available. e "Trigger Conditions" separately giving each of them an
Trigger Condition Name	T_Recipe03
Set Trigger Condition	Data is written to the device every 10 seconds. Data is written to the device at 12:00. Data is written to the device when the Start Download Bit tu ty I

- The name of the trigger condition can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.
- 2 Click the [Next] button.

Set Trigger Condition	Data is written to the device every 10 seconds. Data is written to the device at 12:00. Data is written to the device when the Start Download Bit tu
	Back Next Cancel

This is the end of setting a trigger condition necessary for data write. The ACTION setting screen will appear.

Proceed to "STEP 5 Setting Feature (ACTION)".

STEP 5 Setting Feature (ACTION)

This step sets functions (ACTION) to use. Specifically, this step sets the name of ACTION to use and the save destination of a recipe sheet to create as a sample.

1 Enter the folder of save destination of a recipe sheet in the [Folder of Recipe Excel] field.

An ACTION requires an Al	CTION name. Specify an ACTION name.
ACTION N	unition 1
Folder of Recipe Excel	CNDocuments and Settings Administrator/Desktop
The sample wizard creates	the Excel file of the sample in this folder.

• The ACTION name can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.

2 Click the [Next] button.

ACTION Name Action1	
Folder of Recipe Excel C:\Documents and Settings\Administrator\Desktop Browse	
The sample wizard creates the Excel file of the sample in this folder.	
Back Next Cancel	

This is the end of setting an ACTION item necessary for data write. The screen that explains the procedures to follow (saving and transferring network project file) will appear. You can read the explanations how to save and transfer the network project file on the screen.

3 Click the [Complete] button.



This completes the "Sample Wizard".

Then the save setting screen will appear.

State Studio 57 2 ppu						V
File Edit Tool Programming Assist	Setting Help					_
Start >> Node	Symbol Symbol	Feature >	Save 🔉	Transfer Transfer	Moni Stat	itor itus
Save	Basic Into Histoly Into					
Save/Reload	Network Project				Browse	
🔽 Create BAK File	Title					1
Input Password at Save Time	Related Document (F	Registered in the follow	ving area by dropping t	he file. Started by clickir	g the file.)	
	Relation-Info	File Name	Folder			

At this time, the "Sample Wizard Setting Result" screen and the recipe sheet file (Recipe_Excel.xlt) in Excel format are also created.

NOTE • The "Sample Wizard Setting Result" screen is of an HTML file. Starting this screen needs 'Microsoft Internet Explorer' preinstalled on the PC.

Proceed to "STEP 6 Verifying Setting Result and Recipe Sheet".

STEP 6 Verifying Setting Result and Recipe Sheet

This step opens the "Sample Wizard Setting Result" screen to verify the setting result.

1 Click the "Sample Wizard" in the task bar of the PC.



The "Sample Wizard Setting Result" screen will appear.

Sample Wizard: - Microsoft Internet Exp	blorer				
File Edit View Favorites Tools Help					
🕞 Back 🔹 🌍 🔹 💌 💋 🎾) Search 🥂 Favorites 🔗	3• 🏐 🗹 • 📙			
Address E:\Documents and Settings\Owner\	Desktop\Action1.html				💌 🔁 Go 🛛 Links 🎙
Sample Wiz	ard Setting	g Resul	lt		-
Recipe in Excel Format					
Creation Date and Time:Tuesday, No	vember 13, 2007 6:26:35 PM				
Node					
	hr ().	hr i m		ITTE A 11	
On continue Marda	Node Name	Node Type Day Common T	v	IP Address	
Trigger Node	Sample Mode	GD3000 Seri	A.	172.21.3.36	
Symbol	_				
Symbol Name	Node Name	Data Type	Device Address	Comment	
S_Recipe03_Download_BIT	Sample_Node	Bit	219000	Bit to order the sta	rt of Download
S_Recipe03_RecordNumber_WORL) Sample_Node	16Bit(Signed)	2191	Device storing the	Record No.
S_RecipeU3_WriteDestination_WOR	D[Sample_Node	[16Bif(Signed)	2192	The Start Device of	t Write Destination
Trigger Condition					
Condition Name	Condition				
T_Recipe03	Data is written to the device w	hen the Start Downloa	d Bit turns ON.		
ACTION					
ACTION Name	Action1				
Template File Name	E:\Documents and Settings\Ov	vner\Desktop\Recipe_	Excel.xlt		
Output File Name	E:\Documents and Settings\Ov	vner\Desktop\Recipe_	Excel.xls		
E Done					😡 My Computer

2 Scroll the screen and verify that the settings have been correctly entered.



- **3** After having verified, click the [x] (close) button to close the screen and click the [-] (minimize) button to minimize the screen.
 - NOTE

• When created, the "Sample Wizard Setting Result" file will be automatically saved in the save destination folder of the recipe sheet set in procedure 2 of "STEP 5 Setting Feature (ACTION)". The file name is "(ACTION name).html".

Proceed to opening the recipe sheet in 'Excel' to verify the setting result.

4 Open the save destination folder of the recipe sheet set in procedure 1 of "STEP 5 Setting Feature (ACTION)" and double-click the recipe sheet (Recipe_Excel.xlt) in 'Excel'.



Verify that the recipe sheet is created.

M	licrosoft Exc	el - Book1			
	<u>File E</u> dit <u>V</u> i	ew <u>I</u> nsert	F <u>o</u> rmat <u>T</u> ool	s <u>D</u> ata <u>W</u> ir	ndow <u>t</u>
	🖻 🖬 🔒) /	🔊 + 🍓)Σ <i>f</i> * 👌	it 🛍
	😭 🖓 🗖	2 🖬 🗆	• == ==		A
	H9	•	=		
	A	В	С	D	E
1	1	2	3		
2	1111	111	11		
3	2222	222	22		
4	3333	333	33		
5	4444	444	44		
6	5555	555	55		
7					
8					
9					
10					

Proceed to "STEP 7 Saving Network Project File".

STEP 7 Saving Network Project File

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

The setting items are the same as those in the "New Form" wizard above. See "STEP 7 Saving Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 8 Transferring Network Project File".

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

The setting items are the same as those in the "New Form" wizard above. See "STEP 8 Transferring Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 9 Writing Device Data".

STEP 9 Writing Device Data

This step writes the device data into the GP after the trigger condition set in "STEP 4 Setting Trigger Condition" has become effective.

In this trial, you can confirm that the data will be written to the GP.

1 Turn on the download start bit to effect the trigger condition.

NOTE You can turn ON the download start bit by:

- turning on the bit from the screen of the GP; or
- turning on the bit on the "Device Monitor" or "Symbol Monitor".
- For more details, see 'GP-Pro EX Reference Manual' or "28 Simply Confirming On-site Status".
- 2 When Trigger Condition is enabled, check that the recipe sheet data corresponding to the record number stored in "S_Recipe_ record number _WORD" is written in "S_Recipe03_Write Destination_WORD".

This is the end of writing recipe data using the "Sample Wizard".

3.4 Trial of Logging Funtion

3.4.1 What is a Data Logging Function?

'Pro-Server EX' allows logging (continuously read) of data that has been collected in Device/PLCs over a period of time and at an arbitrary timing and writing the logged data in application software such as 'Excel'.

Flow of Data Logging

(1) Create a sheet (log sheet) in Excel format to which logged data will be written.

	А	В	С	D	E
1	Time	D000	D001	D002	D003
2	9:00				
3	10:00				
4	11:00				
5	12:00				

(2) Execute action setting of the data logging function, for example setting of a write destination of data and requirements for logging using 'Pro-Studio EX'.

(3) At a specific timing or at a specific interval, data logging is executed and the data of the Device/PLC are written onto the log sheet.

(Example) Logging the data of the device addresses, "D000" to "D003" of the Device/PLC every one hour.



3.4.2 Workflow from Settings to Data Logging

The following explains about the operation flow from setting to data logging using the "Data Logging" wizard.



STEP 6 Verifying Setting Result and Log Sheet This step verifies the setting result on the "Sample Wizard Setting Result" screen and the created log sheet.

STEP 7 Saving Network Project File

This step saves the current settings as a network project file and reloads.

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

STEP 9 Logging Device Data

This step writes the device data of the GP into the log sheet after the trigger condition set in STEP 4 has become effective.

3.4.3 Logging the Device Data

This section helps you to learn necessary settings efficiently for logging the data of the GP by simply following the instructions of the "Data Logging" wizard of the "Sample Wizard" to actually log the data of the GP.

• Log sheet creation in Access format or Excel format needs 'Access' or 'Excel' preinstalled on the PC. Before getting started, ensure that necessary software is installed on the PC. Before getting started, ensure that necessary software is installed on the PC.

STEP 1 Selecting Data Format of Log Sheet

This step selects the data format of a log sheet to create.

In this trial, create a log sheet in Excel format.

Creating Log Sheet (Sample)

Before using the recipe function, you must create a log sheet on which device data or logging time are entered. In this wizard, the sample log sheet will be automatically created and stored in the folder specified by the wizard.

1 On the start screen, click the [Data Logging] button in the [Sample Wizard].



The "Data Logging" wizard starts. The data format selection screen will appear.



2 Select the data format of a log sheet to create.

In this trial, select "Excel".

Select which type of data logging you want to do.
C Comma-Deliminated Text (CSV Format)
C Access
Caution: To edit AccessMDB, Microsoft Access is required.
Excel Cardition To use this feature, Microsoft Excel is required.
Next Cancel

Click the [Next] button.

Select which type of data logging you want to do.
C Comma-Deliminated Text (CSV Format)
O Access
Caution: To edit AccessMDB, Microsoft Access is required.
© Excel
Caution To use this feature, Microsoft Excel is required.

This is the end of selecting a data format. The entry nodes setting screen will appear.

• The following explanation assumes that "Excel" is selected on this screen. Note that if "Comma-Deliminated Text (CSV Format)" or "Access" is selected, the screens and settings are different from the followings.

Proceed to "STEP 2 Registering Entry Nodes".

STEP 2 Registering Entry Nodes

The setting items are the same as those in the "New Form" wizard above. See "STEP 2 Registering Entry Nodes" in "3.2.4 Creating a Form". If you have tried another wizard and registered entry nodes already, you can skip this procedure. Click the [Next] button and proceed to "STEP 3 Registering Symbols".

Proceed to "STEP 3 Registering Symbols".

STEP 3 Registering Symbols

This step registers the device address from which data will be read as a "Symbol". In this wizard, the symbol is preset in the device ("LS area") of the GP.

1 Check the [The symbols will be registered as data-source-node symbols.] check box, and then enlarge or scroll the screen to confirm the preset symbol.

Data Logging 🛛 🛛 🛛 🛛
Sample: Logging in Excel Format
>> 🧊 Node >> 🔑 Symbol >> ≷ Feature >>
Edit symbol details in the Symbol Screen
after the sample wizard ends.
To execute Data Logging, two or more copy source devices have to be specified. In the Data Logging of the selected sample, the devices have already been specified by their symbol names. The symbols will be registered as data-source-node symbols.
Supplement: In the initial condition, the address of a registered symbol is set to the internal device of the data source node. In the sample, the internal device is assigned as a tentative setting.
Back Next Cancel

Symbol Name	Data Type	Address	
S_Logging03_Re S Logging03 Upl	16Bit(Signed) Bit	2291 229000	

2 Click the [Next] button.

Symbol Name	Data Type	Address		
S_Logging03_Re	16Bit(Signed)	2291		
S_Logging03_Upl	Bit	229000		
				•
		<u> </u>		
		Back	Next N	Cancel
	-			

This is the end of registering symbols necessary for data logging. The trigger condition setting screen will appear.

Proceed to "STEP 4 Setting Trigger Condition".

STEP 4 Setting Trigger Condition

This step sets conditions for executing data logging (trigger condition).

1 Select a trigger condition in the [Set Trigger Condition] field. Here, select "Device data read out every 10 seconds".

-In Pro-Server EX, various Pro-Server EX manages th arbitrary name.	actions caused by arbitrary "Trigger Conditions" are available. he "Trigger Conditions" separately giving each of them an
Trigger Condition Name	T_Logging03
Set Trigger Condition	Device data is read out every 10 seconds. Device data is read out at 12:00. Device data is read out when the Start Upload Bit turns UN.
	•

• The name of the trigger condition can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.

2 Click the [Next] button.

Set Trigger Condition	Device data is read out every 10 seconds. Device data is read out at 12:00. Device data is read out when the Start Upload Bit turns ON.	
	Back Next Cancel	//

This is the end of setting a trigger condition necessary for data logging. The ACTION setting screen will appear.

Proceed to "STEP 5 Setting Feature (ACTION)".

STEP 5 Setting Feature (ACTION)

This step sets functions (ACTION) to use. This step sets functions (ACTION) to use. Specifically, this step sets the name of ACTION to use and the save destination of a log sheet to create as a sample.

1 Enter the folder of save destination of a log sheet in the [Data Log Storage Folder] field.

-Pro-Server EX can execute any pre-registered ACTION.
This Data Logging is also executed as "Create form using Excel."ACTION.
An ACTION requires an ACTION name. Specify an ACTION name.
ACTION Name Action1
Data Log Storage Folder C:\Documents and Settings\Administrator\Desktop

• The ACTION name can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.

2 Click the [Next] button.

ACTION Name Action1	
Data Log Storage Folder C:\Documents and Settings\Administrator\Desktop	
	1
Back Next Cancel	

This is the end of setting an ACTION item necessary for data logging. The screen that explains the procedures to follow (saving and transferring network project file) will appear.

3 Click the [Complete] button.



This completes the "Sample Wizard".

Then the save setting screen will appear.

Pro-Studio EX ?.npx	5 UK - UK				_ 🗆
Start >> 🛐 Node	>> /> Symbol >>	Feature	📑 Save ≫ [Transfer Transfer	Moni Stat
	Basic Info History Info				
Save					
Save/Reload	Network Project file Path				Browse
Create BAK File	Title				
Input Password at Save Time	Related Document (I Belation-Info	File Name	Ving area by dropping t Folder	hefile. Started by clickin	ng the hile.j
Set:Password					

At this time, the "Sample Wizard Setting Result" screen and the log sheet file (Logging_Excel) in Excel format are also created.

• The "Sample Wizard Setting Result" screen is of an HTML file. Starting this screen needs 'Microsoft Internet Explorer' preinstalled on the PC.

Proceed to "STEP 6 Verifying Setting Result and Log Sheet".

STEP 6 Verifying Setting Result and Log Sheet

This step opens the "Sample Wizard Setting Result" screen to verify the setting result.

1 Click the "Sample Wizard" in the task bar of the PC.



The "Sample Wizard Setting Result" screen will appear.

Sample Wizard: - Microsoft Internet Ex	plorer							
ile Edit View Favorites Tools Help						_		
🔾 Back - 🔿 - 🙀 😰 🔨 🔎 Search 📌 Favorites 🚱 😞 - 🦢 🕅 - 🔜 🎊								
ddress ElDocuments and Settings/Owner	Desktop\action1.html				T 🔁 G	n Links		
Suress E. (Documents and Settings(Owner	Desktop (Action Fridain				<u> </u>			
Sample Wiz	ard Setti	ng Re	sult					
Logging in Excel Forma	ıt							
Creation Date and Time Tuesday. No	vember 13-2007 6:27:44 1	PM						
stealon paie and raile racoday, rio	1011001 15, 2007 0.27.111							
Node								
	Node Name	Nod	e Type	TP Addre	155			
Operation Node	PC1	Pro-	Server EX	172.21.3	.38			
frigger Node	Sample Node	GP3	000 Series	172.21.3	172.21.3.39			
Symbol Symbol Name	Node Name	Data Type	Device Addre	ss Commet	nt			
	DDC 1 NL 1	1 (7)((7)	D 0001	Device s	 toring the data to uploa	d to		
>_LoggingU3_ReadSourceData_WC	EDSample_Node	16Bit(Sign	ed) 2291	an Excel	file			
rigger Condition								
Condition Name	Condition							
IL_Logging03 Device data is read out every 10 seconds.								
ACTION								
ACTION Name	Action1							
Template File Name E\Documents and Settings\Owner\Desktop\Logging_Excel.xlt								
Dutput File Name	E:\Documents and Setting	gs\Owner\Desktop	Logging_Excel.xls					
Done					Ny Compute	r		

2 Scroll the screen and verify that the settings have been correctly entered.



3 After having verified, click the [x] (close) button to close the screen and click the [-] (minimize) button to minimize the screen.

```
• When created, the "Sample Wizard Setting Result" file will be automatically saved in the save destination folder of the recipe sheet set in procedure 2 of "STEP 5 Setting Feature (ACTION)". The file name is "(the ACTION name set in procedure 1 of STEP 5).html".
```

Proceed to opening the log sheet in 'Excel' to verify the setting result.

4 Open the save destination folder of the log sheet set in procedure 1 of "STEP 5 Setting Feature (ACTION)" and double-click the log sheet (Logging_Excel.xlt) in 'Excel'.



Verify that the log sheet is created.

	R Microsoft Excel - Loaging Excel									
121	File Edit View Insert Format Tools Data Window Help									
īn		Gel	0 - 0 - 5	£. Al 10	 20	Arial	• 11	• B 7	π ≡ ≡	
									<u> </u>	<u> Ш <mark>4</mark> 4</u>
				Ì∃A!	<u>∝</u> ~ _					
	B1	- =		-	-	-				
-	A	B	C	D	E	F	G	Н		
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19	N N Char	 +1								· · · · · · · · · · · · · · · · · · ·
Por	du v v i v	ai /			L F		•		NUM	
KB9	uy					,			INOM J	

Proceed to "STEP 7 Saving Network Project File".

STEP 7 Saving Network Project File

This step saves the current settings as a network project file.

The setting items are the same as those in the "New Form" wizard above. See "STEP 7 Saving Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 8 Transferring Network Project File".

STEP 8 Transferring Network Project File

This step transfers the saved network project file to the GP.

The setting items are the same as those in the "New Form" wizard above. See "STEP 8 Transferring Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 9 Logging Device Data".

STEP 9 Logging Device Data

This step starts data logging after the trigger condition set in "STEP 4 Setting Trigger Condition" has become effective.

In this trial, you can confirm that the data will be logged at a preset interval in the log sheet.

- 1 Open the Data Log Check Destination Folder set in step 1 of "STEP 5 Setting Feature (ACTION)".
- 2 When 10 seconds elapse after transferring the Network Project File, the preset Trigger Condition becomes enabled, and the log sheet of the Excel file in which the data stored in "S_Logging03_Reading Source Data_WORD" is written is created.

	A	В	С	D	E	F	G	Н
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								

At every 10 seconds, new data will be written onto the log sheet.

	A	В	С	D	E	F	G	Н
1	0		1					
2	0							
3	11							
4	11							
5	18							
6	22							
7	22							
8	44							
9	48							
10	48							
11								
12								
13								

3 After having verified the log sheet, click the [x] (close) button.

This is the end of data logging using the "Sample Wizard".

3.5 Trial of Send Mail Function

3.5.1 What is a Send Mail Function?

Pro-Server EX allows e-mailing a preset message to a specific mail address when a preset event occurs such as change in data or trouble. You can send mail messages by:

- Sending a same message all the time;
- Sending a message created on the Device/PLC; and
- Sending a message preset on the Excel sheet.

Flow of Mail Send

(Example) E-mailing a massage preset on the Excel sheet.

(1) Create an Excel sheet (message sheet) in which messages to send and the mail addresses of send destinations are entered.

	А	В	С	D
1	Key code	Title	Message	Mail address
2	1	Alarm1	Abnormal Temp.	richard@abc.com
3	2	Alarm2	Abnormal Press.	m_smith@bbb.com
4	3	Alarm3	Abnormal Input	jane@xyz.com

(2) Execute action setting of the Mail send function, for example setting of a mail server name and requirements for e-mailing using 'Pro-Studio EX'.

(3) When a preset event has occurred, the message of the key code corresponding to the occurred event on the message sheet will be sent to the recipient such as a cellular phone or a PC via the mail server.

(Example) Transmitting the content of "Alarm 1 Abnormal Temperature" of the key code "1" on the message sheet


3.5.2 Workflow from Settings to Send Mail

The following explains about the operation flow from setting to e-mailing using the "Mail Send" wizard.



STEP 5 Verifying Setting Result

This step verifies the setting result on the "Sample Wizard Setting Result" screen.

STEP 6 Saving Network Project File

This step saves the current settings as a network project file and reloads.

STEP 7 Transferring Network Project File

This step transfers the saved network project file to the GP.

STEP 8 Sending E-Mail Messages

This step sends e-mail messages to the preset mail address after the trigger condition set in STEP 3 has become effective.

3.5.3 Sending a Message

This section helps you to learn necessary settings efficiently for sending mail messages by simply following the instructions of the "Mail Send" wizard of the "Sample Wizard" to actually send an e-mail message.

NOTE • An e-mail message cannot be sent if the PC is not connected to a mail server (SMTP server) via a network. Before getting started, confirm the connection environment of the PC.

STEP 1 Registering Entry Nodes

1 On the start screen, click the [Send Mail] button in the [Sample Wizard].



2 Click the [Next] button.



The entry node setting screen will appear.

Send Mail
Sample: Send Mail
>> 🟹 Node >> >> Symbol >> 🔌 Feature >>
Edit node details in the Node Screen after the sample wizard ends.
 To perform Send Mail maintenance, a PC on the network has to be specified as the executing PC, and registered as a participation node.
Do you want to create with this PC?
C Yes Not New PC1
• Yes Node Name FC
O No PC1 Vill be created with
Cand Mail is supervised when a second time second. The mode supervised the second time
(Condition Generating Node) has to also be pre-registered as a participation node.
As a Condition Generatino Node
o Node Carrota Marta Luca ya 192, 168, 0, 100 is
Name IP Address 152, 160, 0, 100 registered.
C Existing Sample_Node 🗾 is used.
Back Next Cancel

The setting items are the same as those in the "Form Creation" wizard above. See "STEP 2 Registering Entry Nodes" in "3.2.4 Creating a Form". If you have tried another wizard and registered entry nodes already, you can skip this procedure. Click the [Next] button and proceed to "STEP 2 Registering Symbols".

Proceed to "STEP 2 Registering Symbols".

STEP 2 Registering Symbols

This step registers the device address from which data will be read as a "Symbol". In this wizard, the symbol is preset in the device ("LS area") of the GP.

1 Check the [The symbols will be registered as condition-generating-node symbols.] check box, and then enlarge or scroll the screen to confirm the preset symbol.

end Mail		į.
	Sample: Send Mail	
»	Node 🍑 눧 Symbol ≫ ≷ Feature ≫	_
	Edit symbol details in the Symbol Screen	
	after the sample wizard ends.	
-To execute Send Mail o name.	Send Mail, a source device for sending data has to be specified. In the If the selected sample, a device has already been specified by its symbol symbols will be registered as condition-generating-node symbols.	
Sup the is a:	pplement: In the initial condition, the address or a registered symbol is set to internal device of the data source node. In the sample, the internal device ssigned as a tentative setting.	•
	Back Next Cancel	

	Symbol Name	Data Type	Address	
1	S_Mail01_KeyCo	16Bit(Signed)	2351	
(S_Mail01_MailTitl	String	2400	
	S Mail01 Start B	Bit	235000	
				•

 $2 \ {\rm Click \ the \ [Next] \ button}.$

Symbol Name	Data Type	Address	
S_Mail01_KeyCo	16Bit(Signed)	2351	
S_Mail01_MailTitl	String	2400	
S_Mail01_Start_B	Bit	235000	
			<u> </u>
	Ľ	Back	Next Cancel

This is the end of registering symbols necessary for data write. The trigger condition setting screen will appear.

Proceed to "STEP 3 Setting Trigger Condition".

STEP 3 Setting Trigger Condition

This step sets conditions for executing data send (trigger condition).

In this wizard, the trigger condition of detecting a rise of "Mail Send Start_BIT" is preset.

1 Confirm the content of the trigger condition in the [Set Trigger Condition].

-In Pro-Server EX, variou Pro-Server EX manages arbitrary name.	s actions caused by arbitrary "Trigger Conditions" are available. he "Trigger Conditions" separately giving each of them an
Trigger Condition Name Set Trigger Condition	T_Mail01 The mail is sent when the Start Sending Mail_BIT turns ON.

- 2 Click the [Next] button.
 - The name of the trigger condition can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.

Set Trigger Condition	The mail is sent when the Start Sending Mail_BIT turns ON,
	Back Next Cancel

This is the end of setting a trigger condition necessary for mail send. The ACTION setting screen will appear.

Proceed to "STEP 4 Setting Feature (ACTION)".

STEP 4 Setting Feature (ACTION)

This step sets functions (ACTION) to use. Specifically, this step sets the name of ACTION to use and the save destination of a message sheet to create as a sample.

1 Execute setting of mail server

Enter the name of the currently connected server for mail send (e.g. Mail.xxxx.co.jp) in the [SMTP Server Name] field in single-byte characters.

An ACTION requires an ACTION name. Specify an ACTION name.	
ACTION Name Action1	
-Set about the Mail Server and Mail Contents.	
Mail Server SMTP Server Name mail.co.jp	
Mail Source Address	
	-

• The ACTION name can be an arbitrary name. However, in this wizard the name is preset. Changing this name in this trial may cause discrepancies. Accept the default provided by this wizard.

SMTP Server

A server for delivering e-mail messages complying with SMTP (Simple Mail Transfer Protocol), a mail transfer protocol (standard for data communication). E-mail messages are sent or received through a computer called "Server" that is always on the Internet. There are two types of serves: for sending and for receiving. SMTP server is typically used to send messages from a mail client to a mail server.

Enter the mail address of the currently using PC (PC saved as an entry node in "STEP1 Registering Entry Nodes") in the [Mail Source Address] field.

An ACTION requires an ACTION name. Specify an ACTION name.	
ACTION Name Action1	
-Set about the Mail Server and Mail Contents.	
Mail Server	
SMTP Server Name mail.co.jp	
Mail Source Address abc@ddd.co.jp	
	-

 $2 \ {\rm Execute \ setting \ for \ mail \ message}$

Select the [Always Send the Same Message] to send the message preset in this wizard.

Mail Contents Always Send the Same Message. Mail Destination Address	
Message to Send	
C Send the data sent from the trigger NODE as a message. Mail Destination Address	
C Send a prepared message in an Excel sheet to the destination.	
(A messages and a receiver can be specified from the Device/PLC.)	

Enter the mail address of the recipient (PC or cellular phone) in the [Mail Destination Address] field, and a message you want to send in the [Message to Send] field in single-byte characters.

Mail Contents	_
Always Send the Same Message.	
Mail Destination Address wyz@ddd.co.jp	
Message to Send Please contact us	

3 Enter the save destination folder of the message sheet in the [Send Mail Setting Storage Folder] field.

⊖ Send the data Mail De	sent from the trigger NUDE as a message. stination
	Address
C Send a prepar	ed message in an Excel sheet to the destination.
(A messaj	ges and a receiver can be specified from the Device/PLC.)

4 Click the [Next] button.



This is the end of setting an ACTION item necessary for mail send. The screen that explains the procedures to follow (saving and transferring network project file) will appear.

5 Click the [Complete] button.



This completes the "Sample Wizard".

Then the save setting screen will appear.

Se Pro-Studio EX 2 ppy					
File Edit Tool Programming Assist	Setting Help				
Start 😕 🟹 Node	>> > Symbol >>	Feature »	📑 Save ン 🕻	Transfer Transfer	Monitor Status
Caus	Basic Info History Info				
Save/Reload	Network Project file Path				Browse
🔽 Create BAK File	Title				
Input Password at Save Time	Related Document (Registered in the follow	ving area by dropping t	hefile. Started by clicki	ing the file.)
- input assessed at out of this	Relation-Info	File Name	Folder		
OBITASSWOLD					

At this time, the "Sample Wizard Setting Result" screen is also created.

Proceed to "STEP 5 Verifying Setting Result".

STEP 5 Verifying Setting Result

This step opens the "Sample Wizard Setting Result" screen to verify the setting result.

1 Click the "Sample Wizard" in the task bar of the PC.



The "Sample Wizard Setting Result" screen will appear.

🗿 Sample Wizard:Send Mail - Microsoft	Internet Explorer			- 0 ×
File Edit View Favorites Tools Help				
🕞 Back + 🖳 + 🕱 🧖 Search 📌 Favorites 🦨 📿 + 😓 🕅 + 📃 🦄				
Address & Ellopoment and SettingOwer/Decknolicities Hand				
Hourcas P Libocoments and Seconds (OW	ен фезисор (Ассонталсни			
Sample Wizard Setting Result				
Send Mail				
Creation Date and Time:Tuesday, November 13, 2007 6:31:12 PM				
Node				
	Node Name N		e	IP Address
Operation Node	PC1 Pro-Serv		EX	172.21.3.38
Trigger Node	Sample_Node	e_Node GP3000 Series		172.21.3.39
Symbol				
Symbol Name	Node Name	Data Type	Device Address	Comment
S_Mail01_Start_BIT	Sample_Node	Bit	235000	Bit to order the start of Sending Mail
S_Mail01_KeyCode_WORD	Sample_Node	16Bit(Signed)	2351	Device storing the KeyCode to
S Mail01 MailTitle STRING	Sample Node	String	2400	Device storing the Message Title
Trime Contrin	panpio_riode	D. H MAR		provide storing the recording time
Ingger Conduion				
Condition Name	Condition			
T_Mail01	The mail is sent when the Start Sending Mail_BIT turns ON.			
ACTION				
ACTION Name	Action1			
SMTP Server Name	mail.co.jp			
E Done				My Computer

- **2** Scroll the screen and verify that the settings have been correctly entered.
- **3** After having verified, click the [x] (close) button to close the screen and click the [-] (minimize) button to minimize the screen.

Proceed to "STEP 6 Saving Network Project File".

STEP 6 Saving Network Project File

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

The setting items are the same as those in the "New Form" wizard above. See "STEP 7 Saving Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 7 Transferring Network Project File".

STEP 7 Transferring Network Project File

This step transfers the saved network project file to the GP.

The setting items are the same as those in the "New Form" wizard above. See "STEP 8 Transferring Network Project File" in "3.2.4 Creating a Form".

Proceed to "STEP 8 Sending E-Mail Messages".

STEP 8 Sending E-Mail Messages

When the trigger condition set in "STEP 3 Setting Trigger Condition" has become effective, the e-mail message set in the wizard will be sent to the specified mail address.

In this trial, you can confirm that an e-mail message will be sent to the specific mail address.

1 Turn on the mail send start bit to effect the trigger condition.

NOTE

- You can turn ON the mail send start bit by:
- turning on the bit from the screen of the GP; or
- turning on the bit on the "Device Monitor" or "Symbol Monitor".

For more details, see 'GP-Pro EX Reference Manual' or "28 Simply Confirming On-site Status".

2 When the trigger condition becomes effective, the content of the [Message to Send] field set in the procedure 3 of the "STEP 4 Setting Feature (ACTION)" will be transmitted.

This is the end of sending e-mail messages using the "Sample Wizard".