Chapter 1 Basic setting

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 \ll Installation \gg

"Pro-Server EX" and "Pro-Studio EX" are installed on PC. For installation operation details, refer to the installation guide of the packaged software.



- (1) Install "Pro-Studio EX" and "Pro-Server EX".
- (2) Install only "Pro-Server EX".
- * This screen is the set up menu when the Developer is purchased.

Only ② is displayed if only Runtime is purchased.

This document is targeted for the persons who have purchased the Developer.

Notes

• Respective license codes need to be input at the time of installation of Pro-Server EX and Pro-Studio EX.

• One license is necessary, respectively, for each PC unit. If it is to be installed on multiple PC units, kindly purchase the equivalent quantity licenses.



 \ll Pro-Server EX \gg

It is a data management software that resides in higher rank PC and mediates the information exchange between indicators.

During the operation, as shown in the right side picture, an icon is displayed in taskbar on lower right of the PC screen.

To close, select "End of Pro-Server EX" by right click.





«What is Pro-Studio EX»

It is the development software that executes various settings of Pro-Server EX. Setting for data exchange is created as network project file (NPX).





 $\ll {\rm Status}$ bar of Pro-Studio EX \gg

A large icon is arranged horizontally on upper part of the window of Pro-Studio.

This is called status bar and by clicking from left to right, respective setting is executed and one network project file is completed.







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Data read to Excel sheet

Device data write to connection unit

8 12.02

New Form



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Registe

Cancel

Otasuke Pro-Server EX !

(2) Next, GP3500T is registered.

(1) Right click "GP3000 series" and click "Add Participation node".



② Input node name and IP address.

[AGP1 192.168.1.100]

③ From pull down button, select
 [Mitsubishi Electric Corporation]
 in connector's maker name and [A
 series computer link] in type of
 device, respectively.

(4) Click on "Register".

Add Node Node Type WindowsPC © GP3000 Series © GP Series
Node Name IP Address AGP1 192,168, 1, 100
C Read Info Online
Add Device/PLC Delete Device/PLC Device/PLC 1
Maker Mitsubishi Electric Co
Point type CUM Set Point Imax Top Text mode 2 Delete
Device Name Device Configuration PLC1 Station No.=0,PC No.=255
System Area PLC1 System Area D00000

5 PC and GP3000 series get registered as shown in the picture on right.



Registration of Participation node to be used in practice is complete.



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Registration of symbol

Symbol is the data contents to be used to access the device of connection for Pro-Server EX. Symbol corresponding to each device address is registered.



For details, refer to reference manual "Chapter 30 Symbol registration".

(1) Symbol for Word address D50 of PLC1 is registered. (It is used in practice of chapter 2~4)

① Click "Symbol" of status bar.

② Select "PLC1 Sheet3 A series computer link unit" of "GP3000 series".



3 Symbol sheet opens on right side.

Pro-Studio EX ?. ile Edit Tool Progr		u Help					
🗾 Start ン [🔪 Node ン	•	Feature ⋗ [- Sa	ive 渊 🆄 Ti	ransfer	Monito Statu
Symbol		Node Name AGP1		Device	Name PLC1		
Group	Ungroup Delete	Sheet Name Sheet3		Set it as	a global symbol shee	et.	
Copy Cut		Symbol	Data Type	Consec utive	Device Address	No. of Data	Comment
Symbol Sheet				daro		1	<u> </u>
Add	Delete					1	
Check Duplication/Lis	t Used Addresses					1	
Global Constant 9	etting Screen			<u> </u>		1	
=- ▼ WindowsPC						1	
🖻 🛒 PC1 (192.16				J	/	1	
INTEF Ξ-▼ GP3000 Series	NAL:Sheet1					1	
😑 🔚 AGP1 (192.) 🖳 🎆 #INTEF						1	
PLC1:SI	neet3 A Series Comp					1	·
 GP Series Global Symbol 						1	
						1	
						1	
						1	
		<u> </u>				1	<u> </u>





(5) Input device address which is to be symbolized. [D50]

If input column is clicked and button in right is clicked, addresses can be input by mouse click from keyboard as shown in the picture on right.

- 6 Select [16 bit] in data type.
- \bigcirc Quantity is considered to be [4].
- 8 Click "Symbolize address".
- (9) "Click "OK" button.

(2) Symbol registration of serial 3 bit is executed from bit address MO of PLC1. (It is used in the practice of chapter 2^{4})

	Sumbol	Data Type	Consec utive	Device Address	No. of Data	Comment
\cup	_D00050_WORD	6Bit(Signed)		D00050	4	
					1	
					1	
					1	

(1) Double click the cell of row of 2^{nd} "Symbol".

	Edit Symbol _M0000_BIT	Symbolize Address	
2	Address M0000		
3	Bit 16 Bit	32 Bit	Back Clr A B C 7 8 9 D E F 4 5 6
	Single-Precision Floating Point Floating Point	String	1 2 3 0 Ent OK Cancel
	Consecutive Offset		
	<	Cancel	

2 Input device address which is to be symbolized.

If input column is clicked and button in right is clicked, addresses can be input by mouse click from keyboard as shown in the picture on right.

- ③ Select "Bit" in data type.
- ④ Quantity is considered to be "1".
- 5 Click "Symbolize address".
- 6 Click "Continuous insertion" twice.
- ⑦ Click "OK".

シンボル	データタイプ	連続	デバイスアドレス	データ個数
_D00050_WORD	16Bit(Signed)		D00050	4
_M0000_BIT	Bit		M0000	1
_M0001_BIT	Bit	+	M0001	1
_M0002_BIT	Bit	+	M0002	1
				1

Registration of symbol is complete.



Action ••••• It is a function that exchanges data with various application software in PC that starts with starting condition.

→Practice of excel document is executed in Chapter 4 Excel document.

Start up condition ••••• This operation becomes signal of process of action and data transfer.

Change in data, time and cycle can be specified.

Data transfer •••• Each participation node exchanges data that start with start up condition. 2 operations such as distribution type and collection type are possible in data transfer.

→Practice of data transfer between AGP and PC is executed in chapter 3.



With reference to next page, NPX is saved/re-loaded here.





Saved network project file is transferred to participation node other than PC.



For details, refer to reference manual "Chapter 25 Transfer".

💱 Pro-Studio EX TEST.npx	6 m 11 1					<u> </u>
File Edit Tool Programming Assist	8	Feature >	Save	P 🆄 Transfe		Monitor Status
Transfer to Another Node Delete Network Project Confirm Online Node	Currently Edited Network Proj File Name TEST.npx		er Management No	. 1.0	Build No. [1	
	Node Name	IP Address	Actual Device	No.	Build No.	Last Transfe
	AGP1	192.168.1.100	Unconfirmed			
	•	1	1	1		

Transfer to Another Node

X Here, another node means "Participation node other than PC, on which, Pro−Studio EX has been installed".

Check transfer destination of NPX from participation nodes given in the list on right and if "Transfer to another node" is clicked, NPX is transferred to respective node.

Here, Chapter 2 Practice of status monitoring is implemented without executing transfer.

Notes

To execute setting of function, NPX is transferred to each participation node.

Again, transfer to Pro-Studio EX PC itself is not required.

