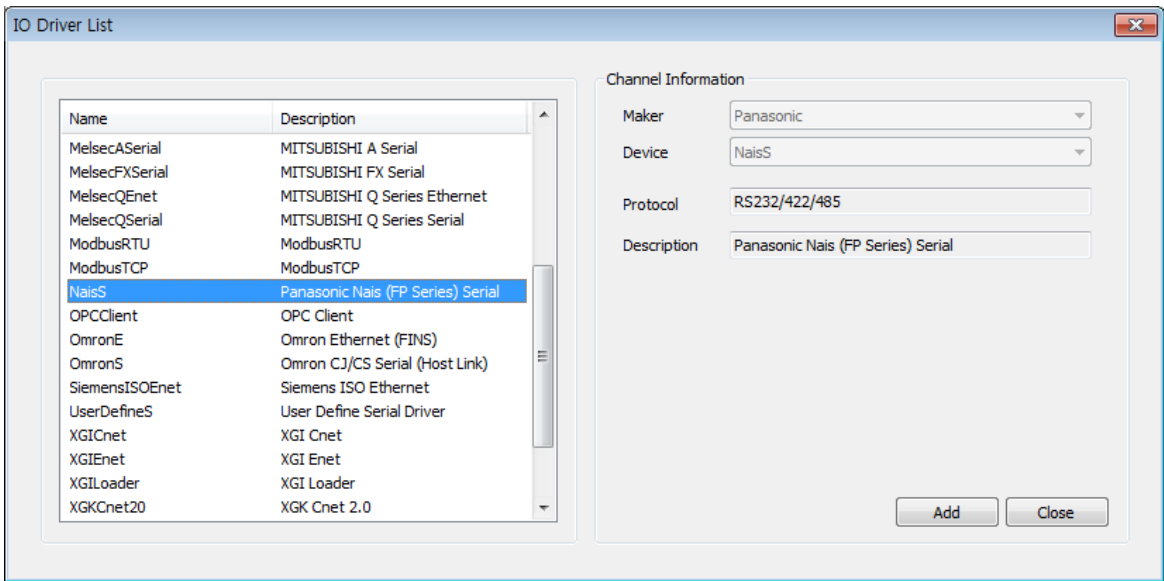


# Chapter 17 Panasonic: Nais(FP Series) Serial

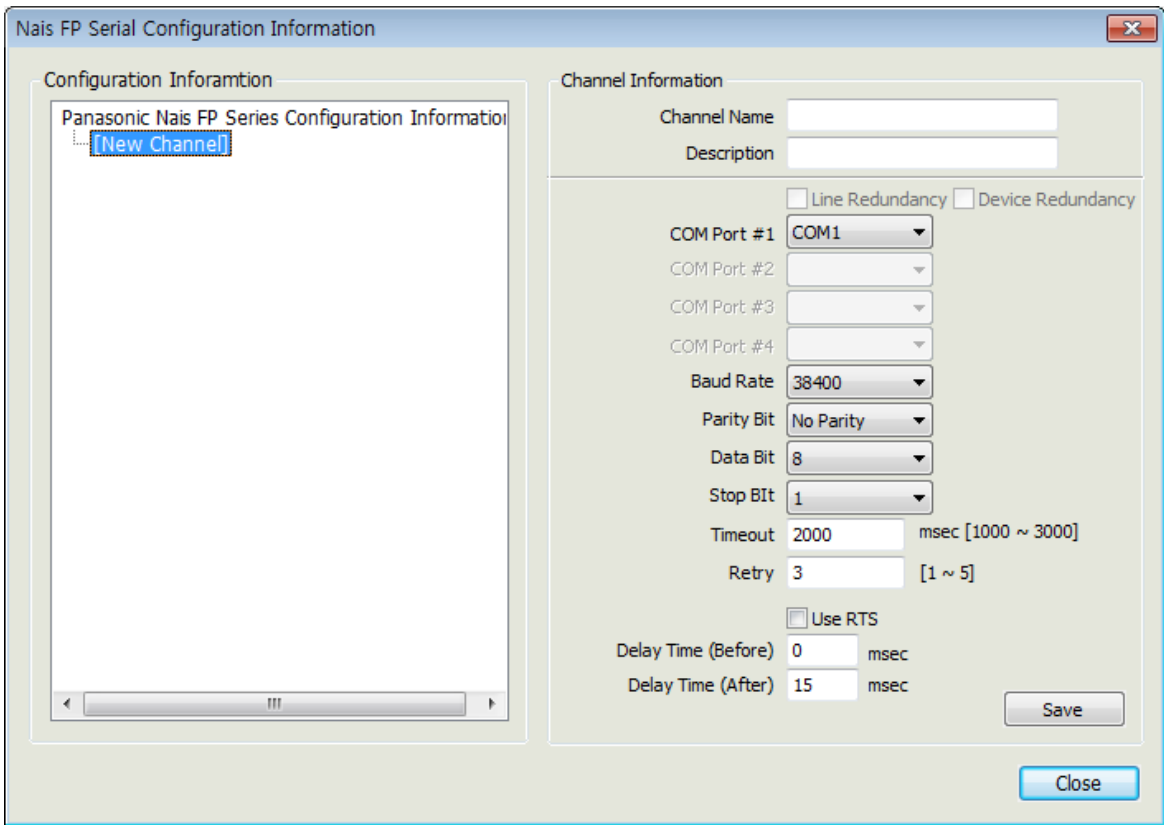
## 17.1 I/O Driver Setting

### 17.1.1 InfoU Setting: NaisS

(1) Add Channel



SELECT “NaisS” from the I/O driver list and press “Add”.



- Channel Name: Input a channel name.
- Description: Input some information on the channel.
- COM Port #1: Select a serial port of PC.
- Baud Rate: Select a communication speed.
- Parity Bit: Select a parity bit.
- Data Bit: Select a data bit.
- Stop Bit: Select a stop bit.
- Time Out : It refers to a certain time period during which any response to the request for data is not made and after passing such a time period, the system will declare timeout to move on to the next process. The time period to be set will be a base to judge communication errors.
- Retry: Set up the number of times to retry when communication fails.
- Use RTS: Check ☒ in the box only when using Channel 485 and 422.
- Delay Time (Before): Information used only in Channel 485 and 422. The delay time right before requesting Data to PLC.
- Delay Time (After): Information used only in Channel 485 and 422. The delay time right after requesting Data to PLC.
- Save: If 'Save' button is pressed, Channel information will be saved and the saved information will add to the left "Configuration Information" tree.

**Nais FP Serial Configuration Information**

**Configuration Information**

- Panasonic Nais FP Series Configuration Information
  - [New Channel]
  - NaisS**
  - [New Station]

**Channel Information**

Channel Name: NaisS

Description:

☐ Line Redundancy ☐ Device Redundancy

COM Port #1: COM1

COM Port #2:

COM Port #3:

COM Port #4:

Baud Rate: 38400

Parity Bit: No Parity

Data Bit: 8

Stop Bit: 1

Timeout: 2000 msec [1000 ~ 3000]

Retry: 3 [1 ~ 5]

☒ Use RTS

Delay Time (Before): 0 msec

Delay Time (After): 15 msec

Save

Close

## (2) Add Station

Nais FP Serial Configuration Information

Configuration Information

Panasonic Nais FP Series Configuration Information

- [New Channel]
- NaiaS
  - [New Station]

Station Information

Station Name

Description

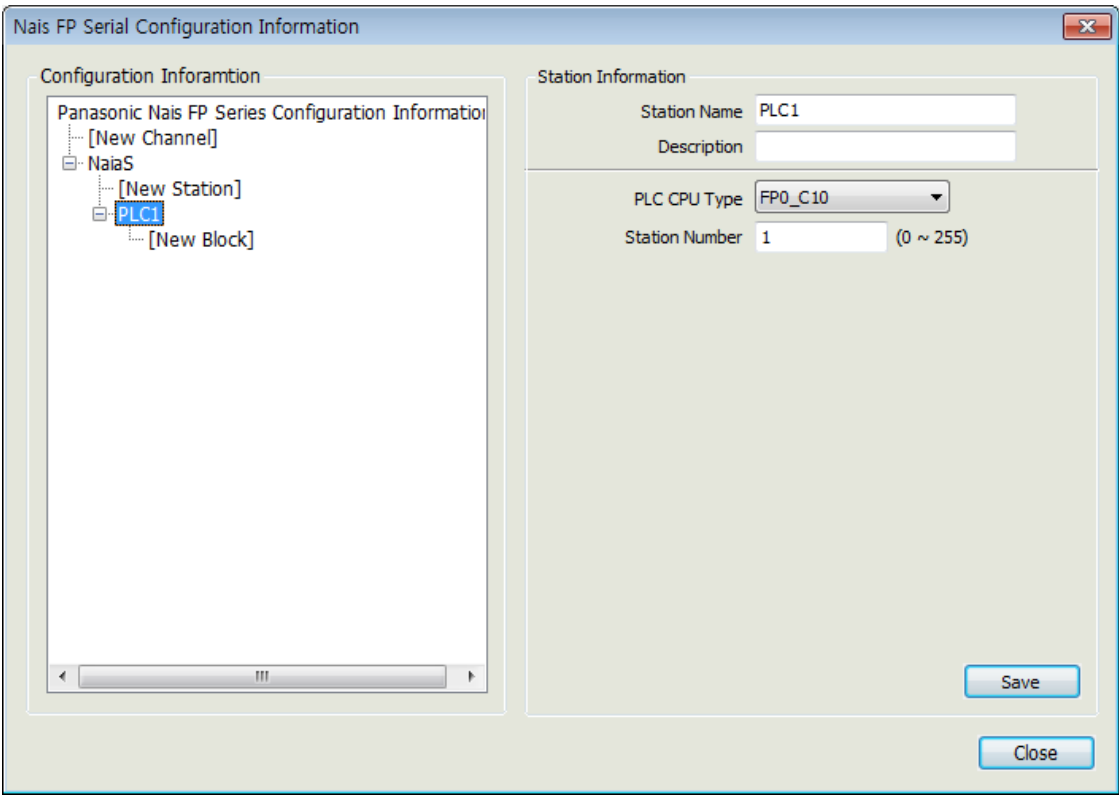
PLC CPU Type

Station Number  (0 ~ 255)

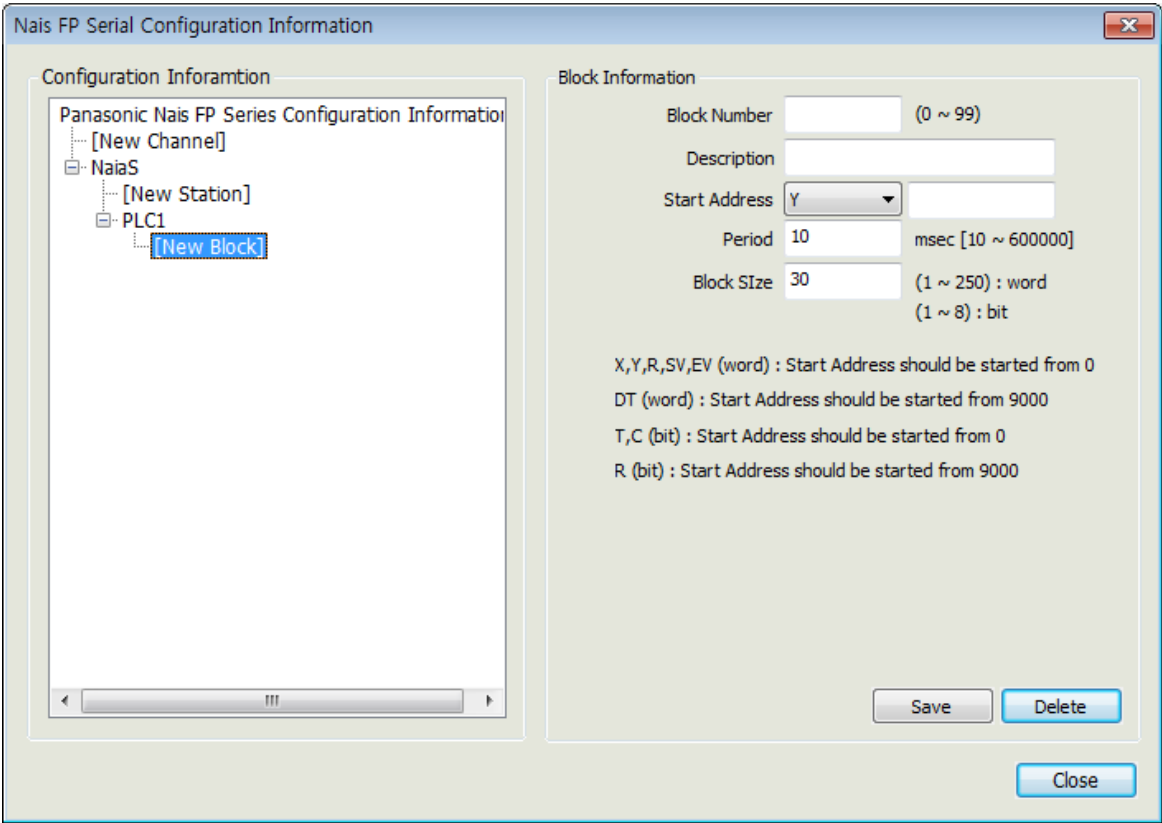
Save

Close

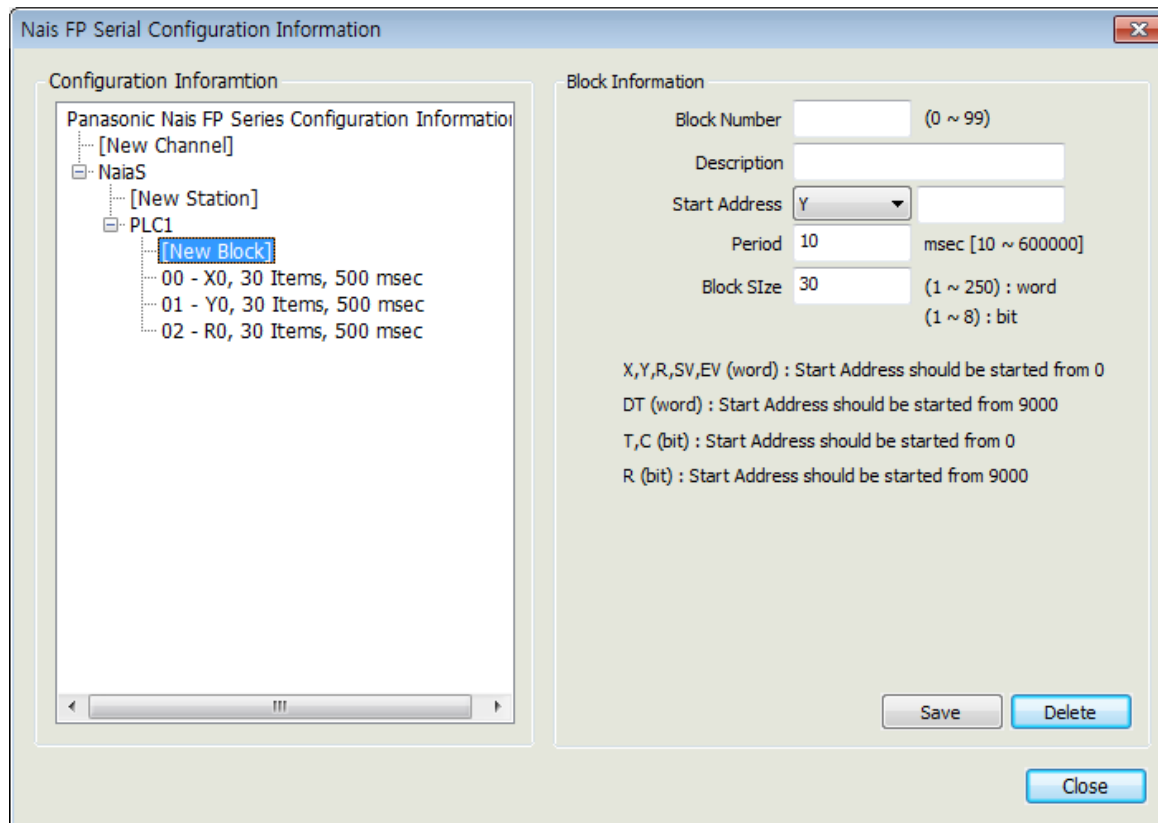
- Station Name: Input a station name.
- Description: Input some information on the station.
- PLC CPU Type: Select a PLC CPU type.
- Station Number: Input the number of PLC Cnet Module.
- Save: If 'Save' button is pressed, Station information will be saved and the saved information will add to the left "Configuration Information" tree.



(3) Add Block



- Select [New Block] from “Configuration Information” tree.
- Block Number: This number is a unique code of the block. The user needs to designate a different code to each block.
- Description: Input some information on the block.
- Start Address: Input the Block's Start Address.
  - For X,Y,R,DT,SV,EV,IX and IY, use reading in WORD unit.
    - Ex1) X, Y and R are memories in Bit unit but, for them, reading in Word unit is also used. For X input, 208 points can be used for X0 through X12F.  
Start Address: X1, Block Size: If 5 is inputted, it will load data of X0 through X5F.
    - Ex 2) EV and SV are memories in Word unit. Therefore, reading in Word unit is used.  
Start Address: EV0, Block Size: If 20 is inputted, it will load data of EV0 through EV19.
    - Ex 3) IX and IV are memories in Word unit but, they exist in one word that is, there are only 1X0 and 1Y0.  
Start Address: 1X0, Block Size: select 1. For IY, also select 1.
    - Ex4) DT are memories in Word unit but, they exist only DT9000 through DT9001.  
Start Address: DT9000, Block Size: If 10 is inputted, it will load data of DT9000 through DT9009.
  - For more than R9000 ,T and C use reading in Bit unit. Their Start Address are in Bit unit and one number shall be selected 1 through 8 for Block Size.
    - Ex1) Start Address: T0, Block Size: If 8 is inputted, it will load data of T0 through T7.
    - Ex2) Start Address: R9000, Block Size: If 8 is inputted, it will load data of R9000 through R9007.
- Period: Input an interval to collect data of the relevant block (unit: msec).
- Block Size: A number to read for each corresponding delimiter.
- Save: If ‘Save’ button is pressed, Block information will be saved and the saved information will add to the left “Configuration Information” tree.
- Delete: If “Delete” button is pressed, the currently selected Block will be deleted.



### (4) I/O Address

#### • Type

##### - Example of Analog Input Address

DT100: Load the value of the 100th word in DT area.

SV10: Load the setting value of T10 in Timer area.

SV111: Load the setting value of C111 in Counter area.

##### - Example of Digital Input Address

X10F: Load the 175th contact value equal to  $10 \times 16 + F_{15} (15) = 160 + 15$  in X area.

R501: Load the 801st contact value  $50 \times 16 + 1_{16} (1) = 800 + 1$  in Internal Relay R area.

R9001: Load the contact value of Special Internal Relay R9001.

DT1280F: Load the F (15th) bit value of Data Register 1280 words.

- Nais PLC Memory Device Map

Memory Code	Description	Data Type	C10/C14/C16 CPU Memory Address	C32/SL1 CPU Memory Address	Address Example
X	Extenal Input	BIT	208Point (X0~X12F)		DI : Xxxxx0~F(xxxx : 0~12) X12A
Y	Extenal Output		208Point (Y0~Y12F)		DI : Yxxxx0~F(xxxx : 0~12) Y0F
R	Intenal Relay		1008Point (R0~X62F) Special Internal Relay 64 Point (R9000~R9063)		DI : Rxxxx0~F(xxxx : 0~62) R19F (Special) DI : Rxxxx (xxxx : 9000~9063) R9010
T	Timer		T0~T99		DI : Txxxx (xxxx : 0~99) T90
C	Counter		C100~C143		DI : Cxxxx(xxxx : 100~143), C108
DT	Data Register	WORD	1660Word (DT0~DT1659)	6144Word (DT0~DT6143)	AI : DTxxxx (xxxx : 0~1659 or 0~6143) DT1000 DI : DTxxxx0~F (xxxx : 0~1659 or 0~6143), DT108A
SV	Timer/ Counter Setting Area		144Word(SV0~SV143) Timer : 0~99, Counter : 100~143		AI : SVxxxx (xxxx : 0~143) SV1 or SV100
EV	Timer/ Counter Value Area		144Word(EV0~EV143) Timer : 0~99, Counter : 100~143		AI : EVxxxx (xxxx : 0~143) EV40 or EV129
IX	Index Register		1 Word ( IX0 )		AI : IX0 (1 Word Only) DI : IX_0(0~F) IX0F
IY	Index Register		1 Word ( IY0 )		AI : IY0 (1 Word Only) DI : IY_0(0~F) IY01