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Author	James	Version	1.0.0	Date	2010/7/12	Page	1/5

How to use FRnet modules in NAPOPC_CE6 ?

Applies to:

Platform	OS version	NAPOPC version
XP-8000-CE6	CE6	NAPOPC_CE6 v1.00

If you want to exchange data between XP-8000-CE6 and FRnet modules, you have to plug **I-8172W** in your XP-8000-CE6, so as to communicate with FRnet modules.

Before operating, let's clarify Receiver Address and Sender Address:

On the manual of FRnet DI modules, it may just show "Sender Address" is between 8 to 15. However, In NAPOPC, we have to set "Receiver Address" the same as "Sender Address" of FRnet DI modules.

Actually, "sender" and "receiver" have opposite relationship. For example, when FRnet DI module gets a DI Signal, and "send" it to NAPOPC, in this situation, NAPOPC plays the role of "receiver". On the contrary, we "send" command from NAPOPC to the DO module, and the role of DO module is "receiver". Please follow this rule to set FRnet modules in NAPOPC.

FRnet modules are not supported by "Search" function, you can only add FRnet modules manually:

Step 1. Add FRnet DI module (Example: FR-2053)

Click "Device" on the Toolbar to add a new device.



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It will show you the dialog as below:

The screenshot shows a 'Select Device' dialog box with the following fields and annotations:

- FRnet module**: A yellow callout box pointing to the 'FRnet' radio button, which is selected and circled in red.
- Slot of I-8172W and the Port you use**: A yellow callout box pointing to the 'Slot' (1) and 'Port' (1) fields, which are circled in red.
- Receiver Address, must be the same as "Sender Address" of the FRnet DI module**: A yellow callout box pointing to the 'Receiver Address' (15) field, which is circled in red.
- Module name**: A yellow callout box pointing to the 'FR-' dropdown menu, which is circled in red.
- Sender Address**: The 'Sender Address' field is set to 0.

At the bottom of the dialog are 'OK' and 'Cancel' buttons.

After setting up, just click "OK".

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Step 2

FR-2053 is added, then click "Generate Tags", and it will add all tags for you according to FR-2053 specification.

The image shows two screenshots of a software interface. The top screenshot shows the 'Generate Tags' button in the toolbar highlighted with a red box. The bottom screenshot shows the same interface after the 'Generate Tags' button has been clicked, with a table of channels displayed in the main window. A large orange arrow points from the 'Generate Tags' button in the top screenshot to the table in the bottom screenshot.

Name	Type	Channel/Location
Ch00	Bit Input	0
Ch01	Bit Input	1
Ch02	Bit Input	2
Ch03	Bit Input	3
Ch04	Bit Input	4
Ch05	Bit Input	5
Ch06	Bit Input	6
Ch07	Bit Input	7
Ch08	Bit Input	8
Ch09	Bit Input	9
Ch10	Bit Input	10
Ch11	Bit Input	11
Ch12	Bit Input	12
Ch13	Bit Input	13
Ch14	Bit Input	14
Ch15	Bit Input	15

Now we could exchange data between XP-8000-CE6 and FR-2053.

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Step 3 Add FRnet DO module (Example: FR-2057)

Basically, the procedure is the same as before, the only difference is that you have to set "Sender Address" instead of "Receiver Address".

The screenshot shows the 'Select Device' dialog box with the following settings:

- Radio buttons: DCON, FRnet, Modbus
- Device Name: 2057
- Board Setting: Slot 1, Port 1
- FRnet module Setting: FR- 2057, Receiver Address: 8, Sender Address: 7

Annotations:

- FRnet radio button is highlighted in yellow.
- Slot 1 and Port 1 fields are highlighted in yellow with the text: "Slot of I-8172W and the Port you use".
- FR- 2057 dropdown is highlighted in yellow with the text: "Module name".
- Receiver Address: 8 and Sender Address: 7 fields are highlighted in yellow with the text: "Sender Address, must be the same as 'Receiver Address' of the FRnet DO module".

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Step 4

The following procedure is the same as adding FR-2053. Click **"Generate Tags"** to add tags, then it's done.

The screenshot shows a software interface with a menu bar (File, Add, Edit, View, Options, Help) and a toolbar. The 'Gener...' button is highlighted with a red box. Below the toolbar, a tree view shows a folder structure with '2053', 'DIs', and '2057'. A large orange arrow points from the 'Gener...' button to the resulting table below.

Name	Type	Channel/Location
Ch00	Bit Output	0
Ch01	Bit Output	1
Ch02	Bit Output	2
Ch03	Bit Output	3
Ch04	Bit Output	4
Ch05	Bit Output	5
Ch06	Bit Output	6
Ch07	Bit Output	7
Ch08	Bit Output	8
Ch09	Bit Output	9
Ch10	Bit Output	10
Ch11	Bit Output	11
Ch12	Bit Output	12
Ch13	Bit Output	13
Ch14	Bit Output	14
Ch15	Bit Output	15