GENERAL

FCN/FCJ Simulator is a software product that runs on a PC and simulates control applications running on a single FCN/FCJ. FCN/FCJ Simulator facilitates the debugging of control applications, thus improving development efficiency.

FUNCTION SPECIFICATIONS

- FCN/FCJ Simulator can be used for the following:
  - FCN/FCJ control applications created with a Logic Designer can be debugged with an FCN/FCJ Simulator. Software wiring function can be used in simulation.
  - VDS or FAST/TOOLS can be debugged by accessing FCN/FCJ Simulator data.
  - Duolet (Java language application) running on the Duolet function of the FCN/FCJ in conjunction with control applications can be debugged on a PC.

FCN/FCJ Simulator can be operated on the same PC as a Logic Designer, VDS or FAST/TOOLS. FCN/FCJ Simulator can also be operated on a different PC. One FCN/FCJ can be simulated per PC.

- APPFs that can be operated in FCN/FCJ Simulator:
  - PAS Portfolio
  - SAMA Portfolio (*1)
  - General-purpose Portfolio (*1)
  - Boiler Control Portfolio License (*1)
  - Boiler Auxiliary Control Portfolio License (*1)

*1: Execute in FCN-100 (FCN autonomous controller with NFCP100 CPU module) and FCJ(all-in-one type autonomous controllers)
Functions that Cannot Be Used in FCN/FCJ Simulator

FCN/FCJ Simulator does not allow you to use the following functions:

- FCN/FCJ I/O modules
  FCN/FCJ I/O modules always remain separated from the simulator.
- Configuration functions through a Web browser
- CPU duplication related functions
- Network duplication related functions

POU and APPF that Cannot Be Used in FCN/FCJ Simulator

POUs for communications among POUs and FCN/FCJ Application Portfolios (hereinafter referred to as APPF) do not execute communication with other FCN/FCJ or foreign devices in FCN/FCJ Simulator. If it is executed in FCN/FCJ Simulator, will result in an error.

Standard POUs (all POUs for communications) that result in errors in FCN/FCJ Simulator are:

- FCN/FCJ Simulator inter-communications function blocks
- FA-M3 Emulator (serial) function blocks
- Ethernet communications function blocks
- Serial communications function blocks

Major APPFs that do not function on FCN/FCJ Simulator:
- FA-M3 Communication Portfolio
- MELSEC-A Communication Portfolio
- SYSMAC Communication Portfolio
- Modbus Communication Portfolio
- DNP3 Communication Portfolio
- Power Monitor Communication Portfolio
- Temperature Controller Communication Portfolio

Others

The FCN/FCJ Simulator processing speed depends on the specification of the PC. FCN/FCJ Simulator may provide a processing speed higher than the FCN/FCJ. In this case, be sure to confirm the execution speed of control applications on the FCN/FCJ.

OPERATING ENVIRONMENT

Same as the Logic Designer operating environment.

SOFTWARE SUPPLY

Software Media

The programs and documents for FCN/FCJ Simulator are supplied as a DVD-ROM.

Hence, a DVD-ROM drive is required for installation in the computer you use. FCN/FCJ Simulator is included in the media (DVD-ROM) of FCN/FCJ Software (Model NT203AJ).

Order ID Sheet

The FCN/FCJ Simulator license comes with an order ID sheet with the order ID number and password. Access the specified Web site of Yokogawa and enter the order ID number and password shown. Then, the key-code for FCN/FCJ Simulator will be issued. This key-code is used when installing the FCN/FCJ Simulator to a PC.

MODELS AND SUFFIX CODES

Software Media

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<tr>
<th>Model</th>
<th>Description</th>
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<tr>
<td>NT203AJ</td>
<td>FCN/FCJ software media</td>
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<tr>
<td>-P</td>
<td>Programs (including electronic documentation)</td>
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<td>DVD-ROM</td>
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<td>E</td>
<td>English version</td>
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FCN/FCJ Simulator

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<td>FCN/FCJ Simulator license</td>
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<td>A</td>
<td>Standard (same for both Japanese and English versions)</td>
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Spare Parts

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<td>NT228AA</td>
<td>ID module for FCN/FCJ Simulator</td>
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ORDERING INFORMATION

Specify model and suffix codes when ordering.

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