NX I/O EtherCAT Offline Setup
Quick Start Guide

How to setup the NX I/O with EtherCAT Coupler offline using Sysmac Studio and downloading the configuration to the Sysmac NJ

Watch the corresponding video on YouTube: NX I/O EtherCAT Offline Setup
http://youtu.be/uKsf4FDfino
1. Create a Project in Sysmac Studio

The NX requires a minimum Device Ver. 1.05 or higher and you will need Sysmac Studio Version 1.06 or higher

2. Add EtherCAT Coupler to the Master

2a. - Double Click on EtherCAT from Configuration and Setup

2b. - Add the NX-ECC201 Terminal Coupler by Dragging & Dropping or Double Clicking
3. Add NX Devices

3a. - Double Click on NX-ECC201

3b. - Add the NX Devices by Dragging & Dropping or Double Clicking

4. Create Device Variables

4a. - Double Click on I/O Map

4b. - Right Mouse Click on the NX-ECC201

4c. - Select Create Device Variable
5. Observe the DeviceVariables Created

6. Rebuild Controller (compile)
7. Go Online (default is USB)

8. Synchronize
9. Transfer To Controller

Synchronization

<table>
<thead>
<tr>
<th></th>
<th>Computer: Data Name</th>
<th>Computer: Update D</th>
<th>Controller: Data Name</th>
<th>Compare</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Synchronized</td>
<td>Different</td>
<td>Exists only on one side</td>
<td>Not checked</td>
</tr>
</tbody>
</table>

- Clear the present values of variables with Retain attribute (Valid for Transfer to Controller).
- Do not transfer the program source (Valid for Transfer to Controller). All data will be re-transferred when this option is checked.
- Do not transfer the following. (All items are not transferred)
  - CJ-series Special Unit parameters and EtherCAT slave backup parameters
  - Slave Terminal Unit operation settings and NX Unit application data

All data will be transferred because the controller has no data.

9a. – Transfer To Controller
9b. – Close after transfer

10. Go to Run Mode

10a. – Select Run Mode
10b. – Double Click on I/O Map
10c. – Monitor & Force I/O On/Off

This completes the Quick Start for the Offline Setup of the NX I/O with the EtherCAT Coupler.

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https://www.youtube.com/user/OmronAutomationTech