

# Uploading an NJ/NX Project (Existing Project)

## Steps

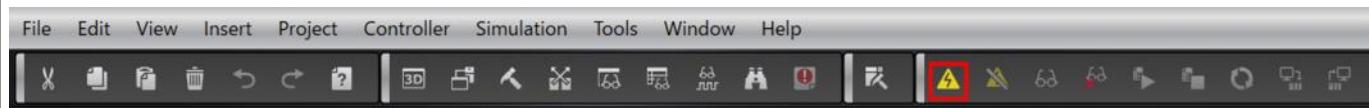
This section describes how to upload (read) data from the PLC.

- ① Go online with the PLC.
- ② Display the project transfer dialog box.
- ③ Upload the project from the Controller to the PC.

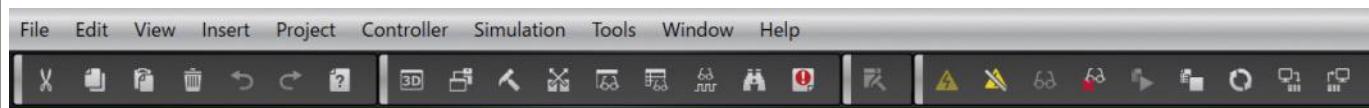
## Detailed Steps

### ① Go online with the PLC.

Click the icon shown in the red frame below to go online.



When the online connection is successful, a yellow bar appears below the menu bar.



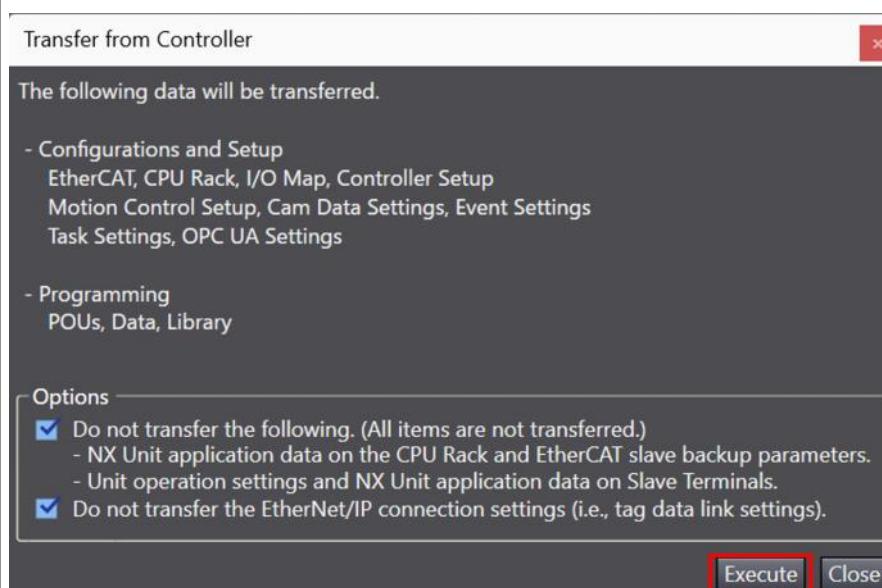
### ② Display the project transfer dialog box.

Click the icon shown in the red frame (Transfer from Controller) below to display the transfer dialog box.



### ③ Upload the project.

• Confirm that appropriate check boxes are selected in the Options area and click the [Execute] button.



The meanings of the check boxes are as follows. If you want to upload all data, clear all check boxes.

Do not transfer the following. (All items are not transferred.)

- NX Unit application data on the CPU Rack and CJ-series Special Unit parameters and EtherCAT slave backup parameters.
- Unit operation settings and NX Unit application data on Slave Terminals.

Default: Selected

If this check box is selected, the following parameters and data are not transferred.

They are not transferred in either direction: Transfer to Controller and Transfer from Controller.

- CJ-series Special Unit (only NJ) and EtherCAT slave parameters

- Unit operation settings and application data for NX Units

\* Parameters of ZW-series and FH-series are not transferred regardless of whether the check box is selected or not.

Do not transfer the EtherNet/IP connection settings (i.e., tag data link settings).

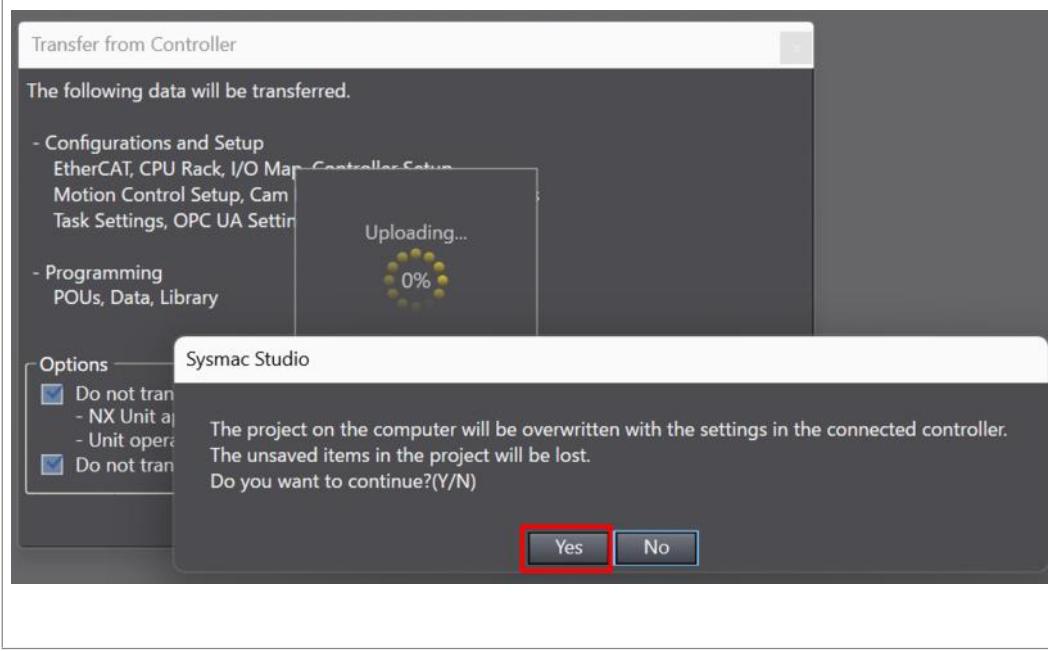
Default: Selected

If this check box is selected, the EtherNet/IP connection settings are not transferred.

They are not transferred in either direction: Transfer to Controller and Transfer from Controller.

If you use the Network Configurator to configure the connection settings instead of the Sysmac Studio, use with this check box selected.

- A dialog box appears. Check the message and select the [Yes] button.



### Remarks

You can also upload data from the PLC to the PC using the Synchronization Window in the Sysmac Studio.

- Go online with the PLC, then click the icon shown in the red frame below.



- The synchronization with the PLC is executed.

Synchronization

	Computer: Data Name	Computer: Update Date	Controller: Update Date	Controller: Data Name	Compare	
■	▼ NX102	2025/10/06 18:49:38	2025/10/06 18:49:38	▼ NX102		
■	EtherCAT Master Settings	2025/10/06 18:49:38	2025/10/06 18:49:38	EtherCAT Master Settings		
■	▼ EtherCAT Slave Settings	2025/10/06 18:49:38	2025/10/06 18:49:38	▼ EtherCAT Slave Settings		
■	Node3 : R88D-15N01L-ECT (E001) :	2025/10/06 18:49:37	-			
■	▼ CPU/Expansion Racks	2025/10/06 18:45:28	2025/10/06 18:45:28	▼ CPU/Expansion Racks		
■	CPU Rack	2025/10/06 18:45:28	2025/10/06 18:45:28	CPU Rack		
■	▼ Controller Setup	2025/10/06 18:45:29	2025/10/06 18:45:29	▼ Controller Setup		
■	Operation Settings	2025/10/06 18:45:28	2025/10/06 18:45:28	Operation Settings		
■	Built-in EtherNet/IP Port Settings	2025/10/06 18:49:09	2025/10/06 18:49:09	Built-in EtherNet/IP Port Settings		
■	Memory Settings	2025/10/06 18:45:28	2025/10/06 18:45:28	Memory Settings		
■	▼ Motion Control Setup	2025/10/06 18:49:38	2025/10/06 18:49:38	▼ Motion Control Setup		
■	Axis Settings	2025/10/06 18:45:29	2025/10/06 18:45:29	Axis Settings		
■	Axes Group Settings	2025/10/06 18:45:29	2025/10/06 18:45:29	Axes Group Settings		
■	Cam Data Settings	2025/10/06 18:28:35	2025/10/06 18:28:35	Cam Data Settings		
■	Event Settings	2025/10/06 18:45:28	2025/10/06 18:45:28	Event Settings		
■	Task Settings	2025/10/06 18:49:38	2025/10/06 18:49:38	Task Settings		
■	▼ OPC UA Settings	2025/10/06 18:45:29	2025/10/06 18:45:29	▼ OPC UA Settings		
■	OPC UA Settings	2025/10/06 18:45:29	2025/10/06 18:45:29	OPC UA Settings		

Legend: Synchronized Different Exists only on one side Not checked

Clear the present values of variables with Retain attribute (Valid for Transfer to Controller).  
 Do not transfer the POU program source (Valid for Transfer to Controller). All data will be re-transferred when this option is changed.  
 Do not transfer the following. (All items are not transferred)  
- NX Unit application data on the CPU Rack and EtherCAT slave backup parameters.  
- Unit operation settings and NX Unit application data on Slave Terminals.  
 Do not transfer the EtherNet/IP connection settings (i.e., tag data link settings).

Transfer To Controller Transfer From Controller Recompare Close

• Click the [Transfer From Controller] button and upload the project.