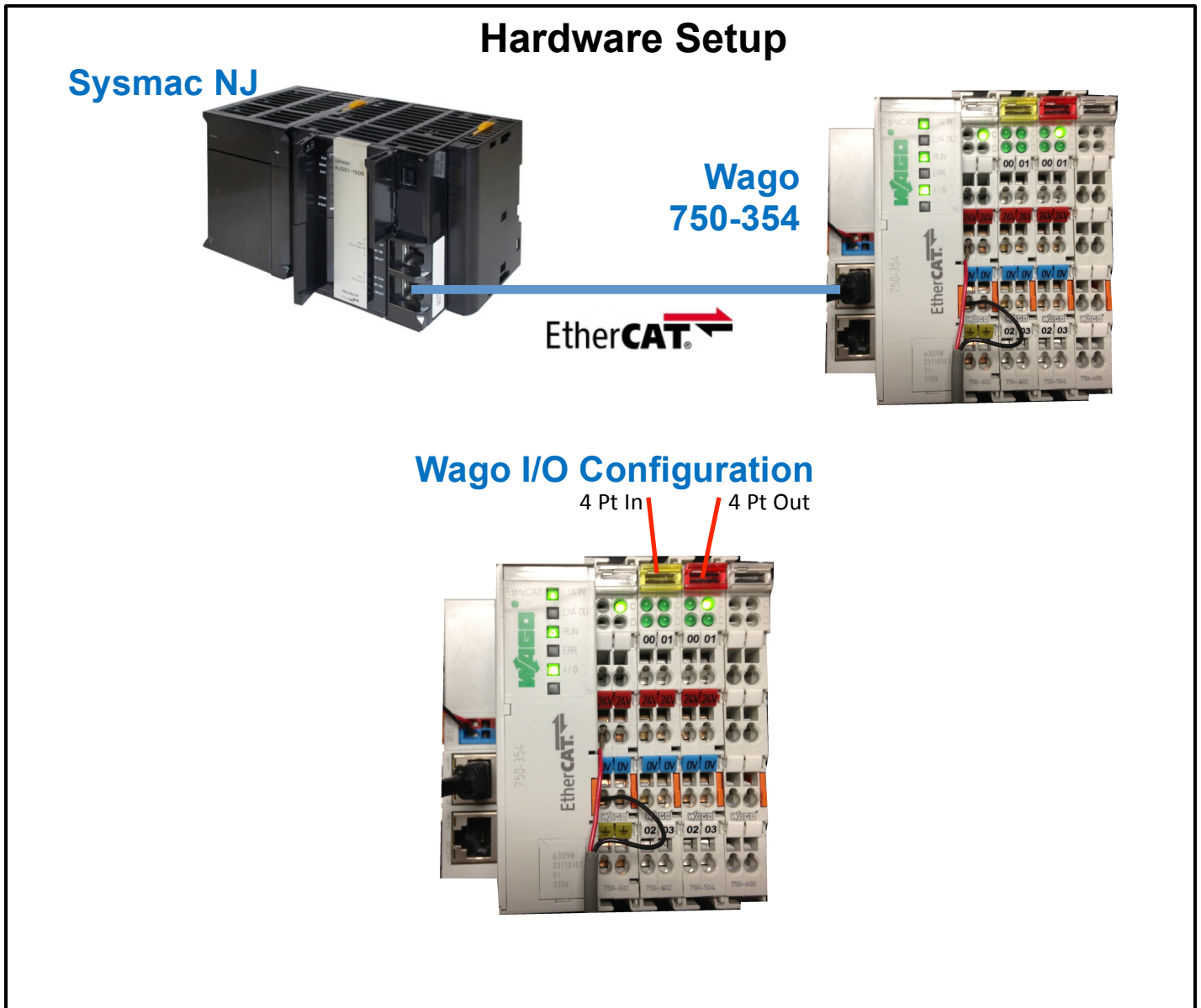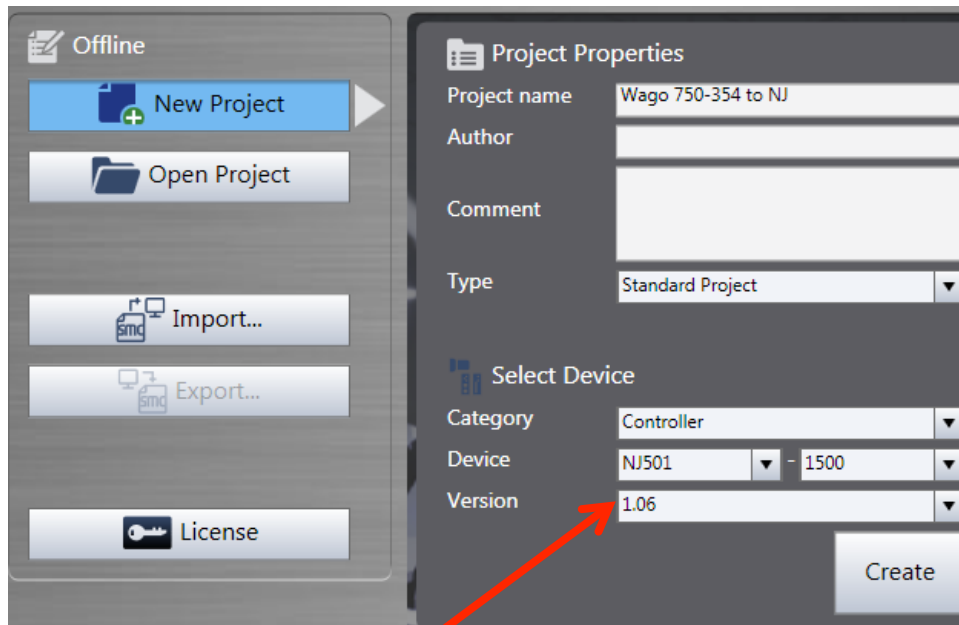# 3rd Party EtherCAT Slave Online Setup
Quick Start Guide

How to setup a 3rd Party Slave (Wago I/O Coupler 750-354) Online to the Sysmac NJ

Hardware Setup

Sysmac NJ

Wago 750-354

EtherCAT

Wago I/O Configuration

4 Pt In   4 Pt Out

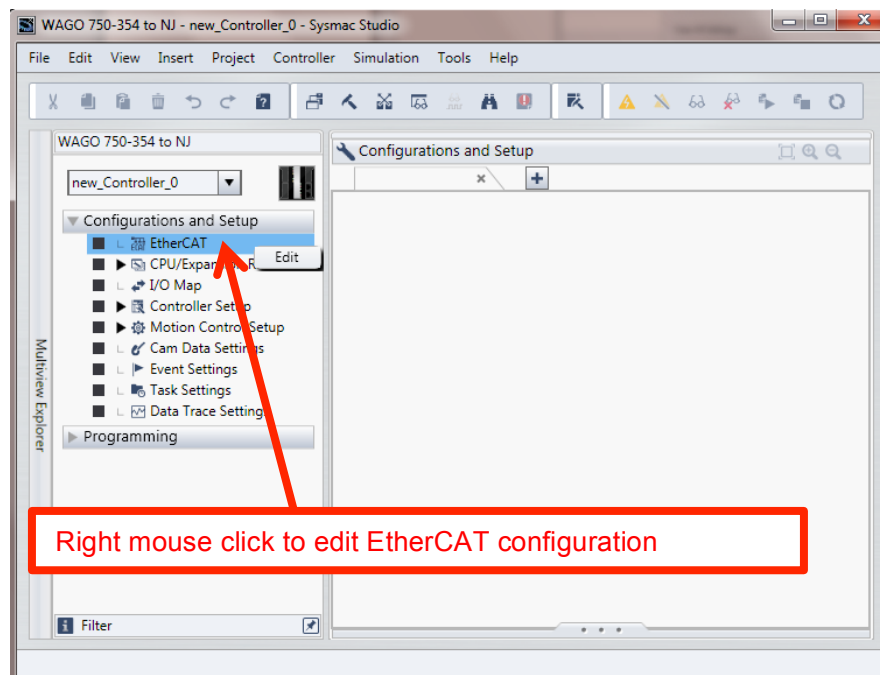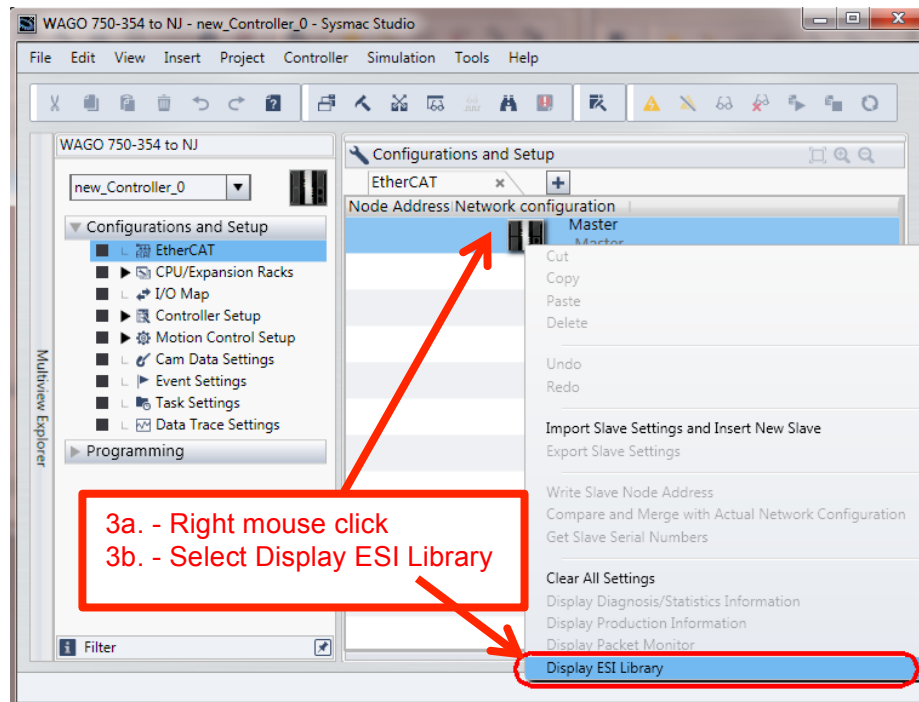# 1. Create a Project in Sysmac Studio

The Wago I/O uses a Modular Device Profile which is available for the Sysmac NJ in Device Ver. 1.05 or higher and in Sysmac Studio Version 1.06 or higher
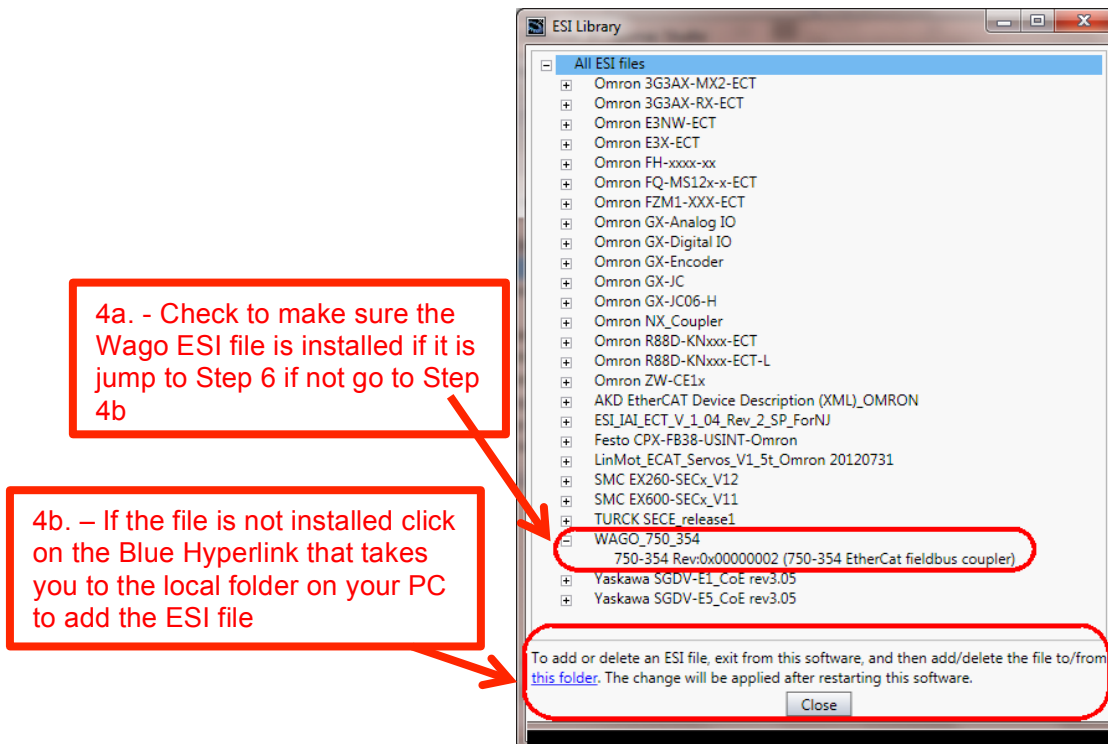
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2. Edit EtherCAT Configuration


Right mouse click to edit EtherCAT configuration

Document: QSG 3rd Party EtherCAT Slave Wago 750-354 Online Setup

3. Display ESI Library

3a. - Right mouse click
3b. - Select Display ESI Library

4. Check to see if 3rd Party Slave Wago ESI is installed

4a. - Check to make sure the Wago ESI file is installed if it is jump to Step 6 if not go to Step 4b

4b. – If the file is not installed click on the Blue Hyperlink that takes you to the local folder on your PC to add the ESI file

5. Add ESI file to UserEsiFiles folder, Restart Sysmac Studio

« Program Files (x86) ▸ OMRON ▸ Sysmac Studio ▸ IODeviceProfiles ▸ EsiFiles ▸ UserEsiFiles

Include in library ▾   Share with ▾   Burn   New folder

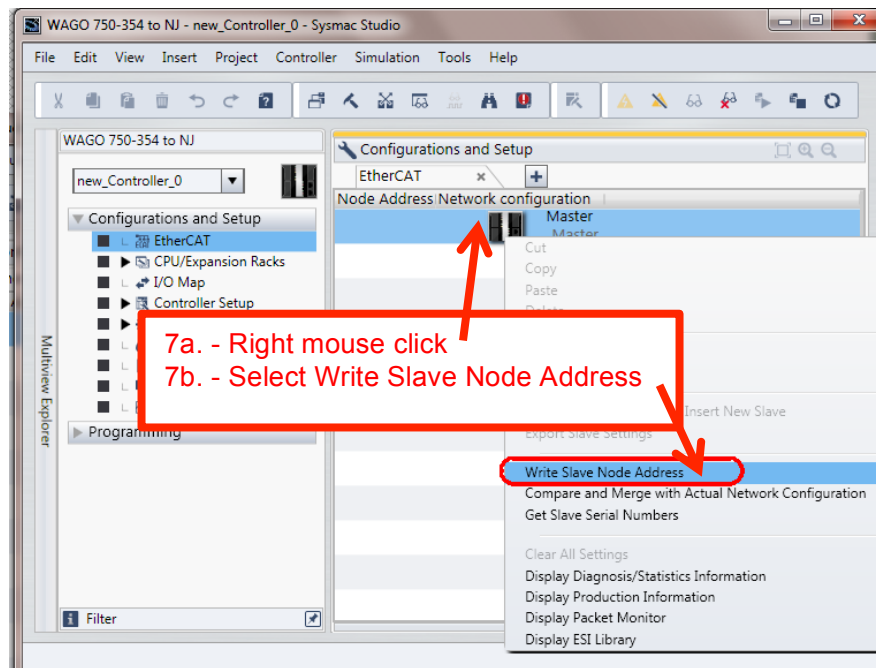| Name	Date modified	Type	Size
AKD EtherCAT Device Description (XML)_...	5/14/2012 9:12 PM	XML Document	342 KB
ESI_IAI_ECT_V_1_04_Rev_2_SP_ForNJ.xml	4/5/2012 1:24 AM	XML Document	256 KB
Festo CPX-FB38-USINT-Omron.xml	11/2/2011 11:22 AM	XML Document	89 KB
Hilscher NT 100-ECS-XX V2.2.xml	9/29/2011 3:31 AM	XML Document	79 KB
LinMot_ECAT_Servos_V1_5t_Omron 2012...	7/31/2012 2:44 AM	XML Document	59 KB
SMC EX260-SECx_V12.xml	2/1/2012 10:02 AM	XML Document	26 KB
SMC EX600-SECx_V11.xml	2/27/2012 9:45 AM	XML Document	444 KB
TURCK SECE_release1.xml	8/3/2012 1:48 AM	XML Document	512 KB
WAGO_750_354.xml	8/25/2011 9:07 AM	XML Document	904 KB
Yaskawa SGDV-E1_CoE rev3.05.xml	12/2/2011 12:46 PM	XML Document	472 KB
Yaskawa SGDV-E5_CoE rev3.05.xml	12/2/2011 12:46 PM	XML Document	470 KB

5a. – After you have added the Wago ESI file to the folder shown
5b. - Save your Sysmac Studio Project,
5c. - Close Sysmac Studio
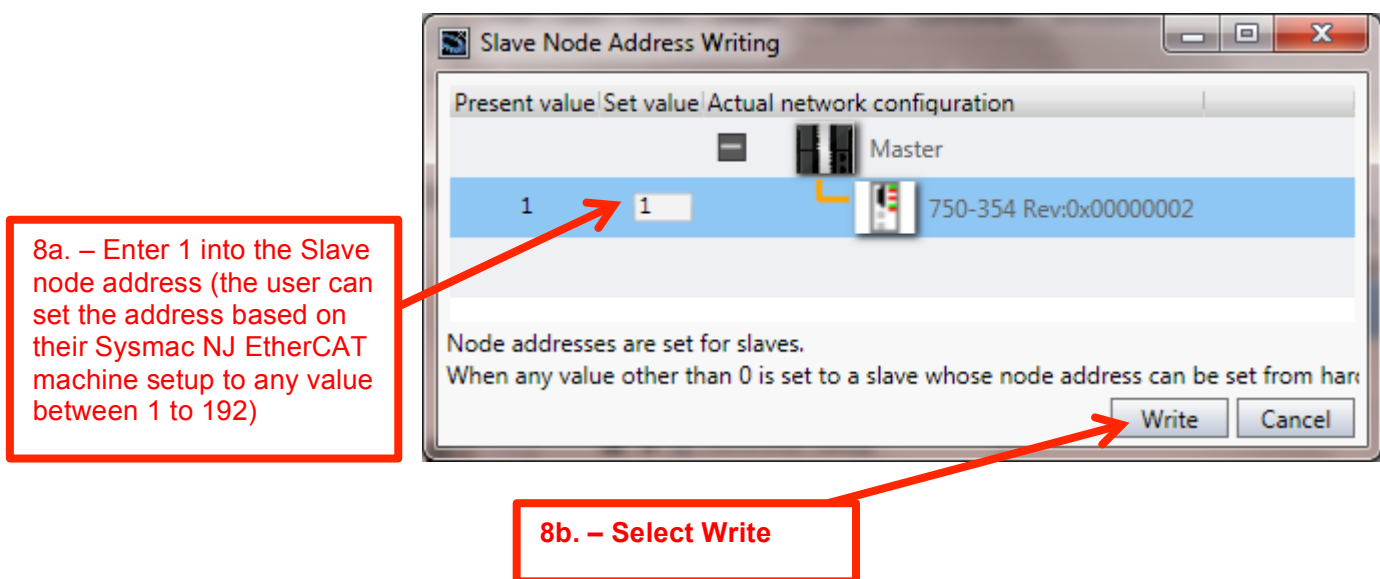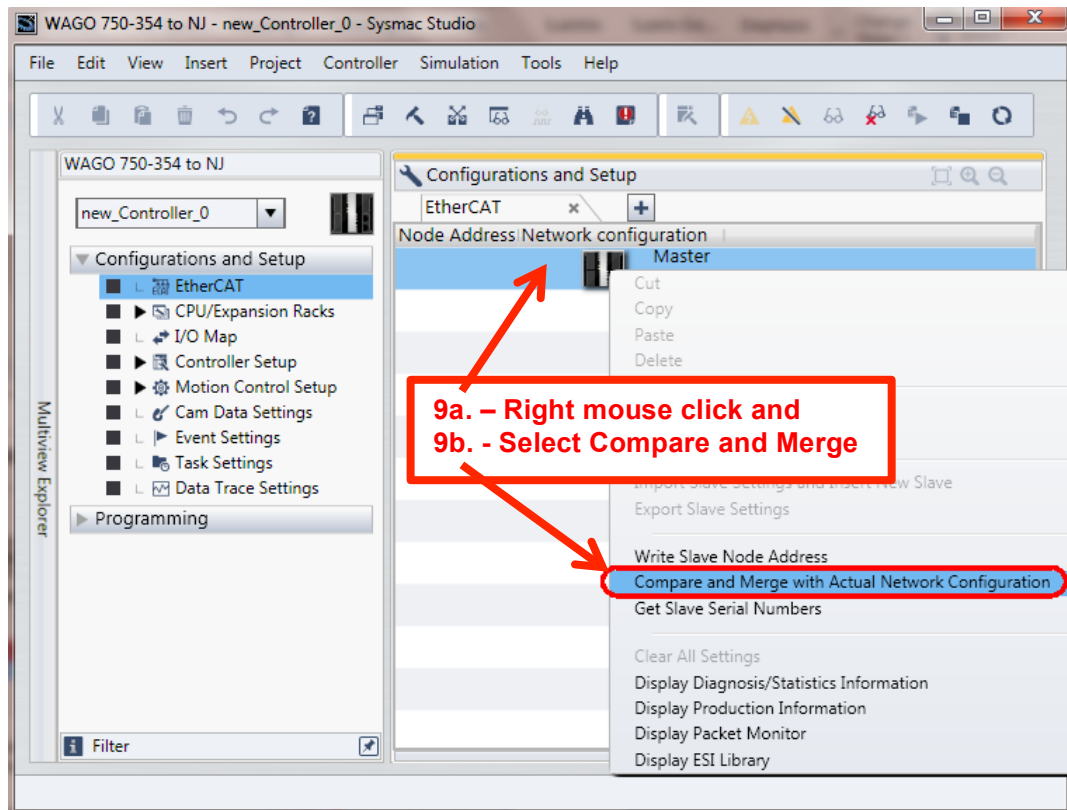5d. – Restart Sysmac Studio and open the previous project
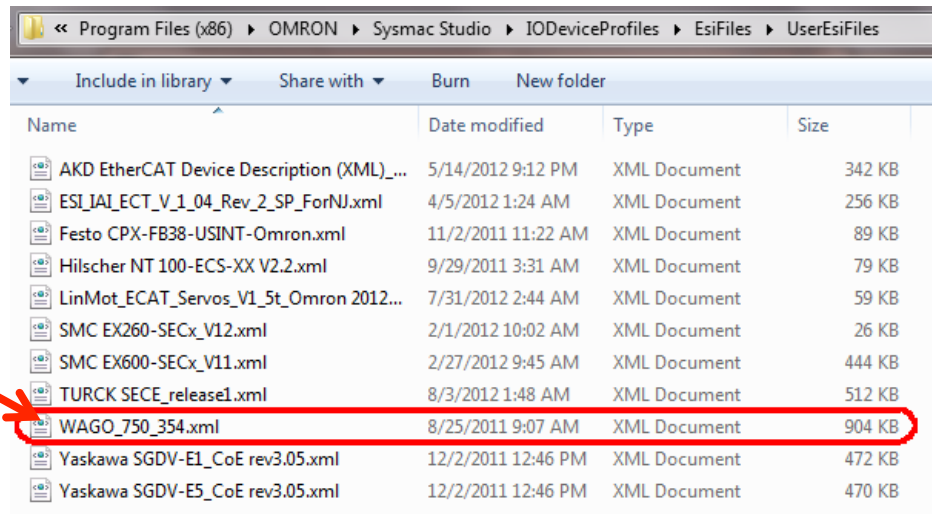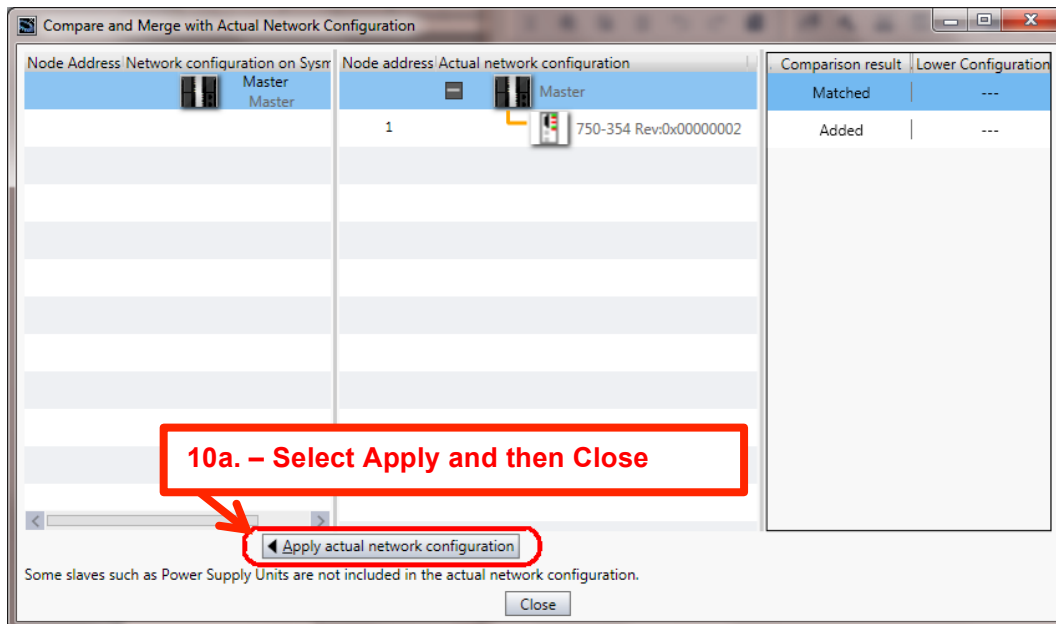
6. Go Online

Go Online

7. Write Slave Node Address
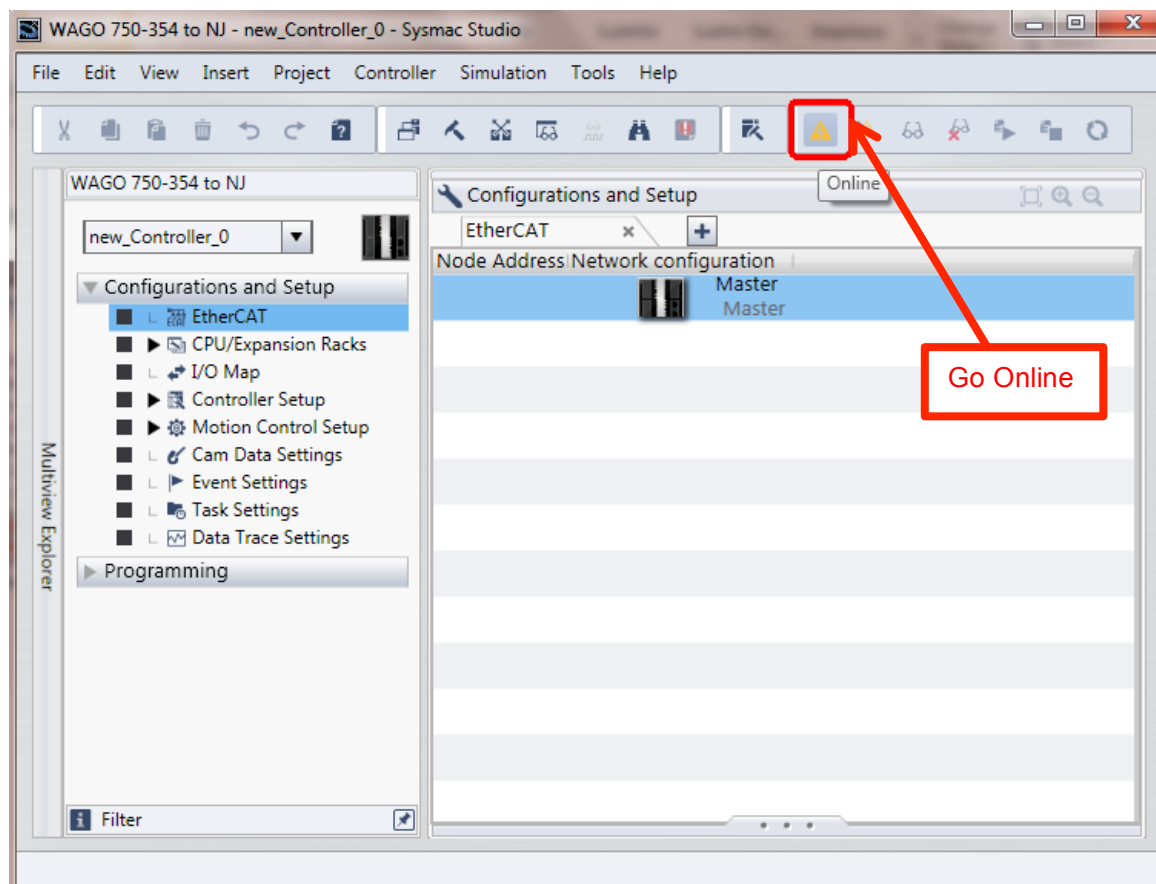
7a. - Right mouse click
7b. - Select Write Slave Node Address

8. Enter Slave device address 1, Write

8a. – Enter 1 into the Slave node address (the user can set the address based on their Sysmac NJ EtherCAT machine setup to any value between 1 to 192)
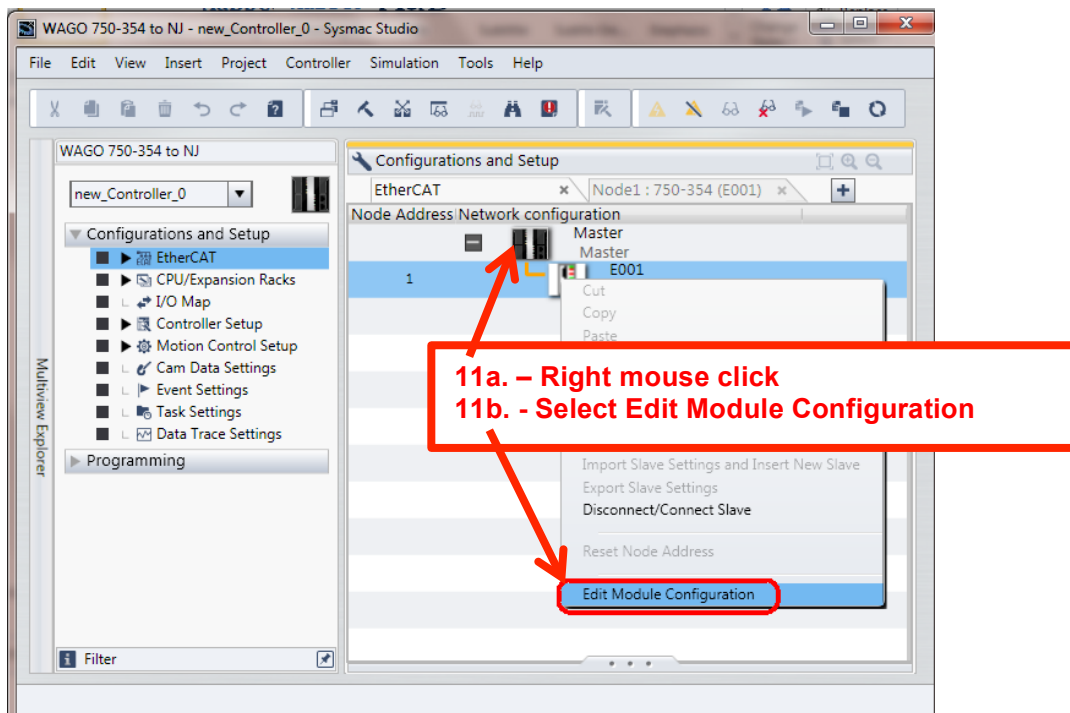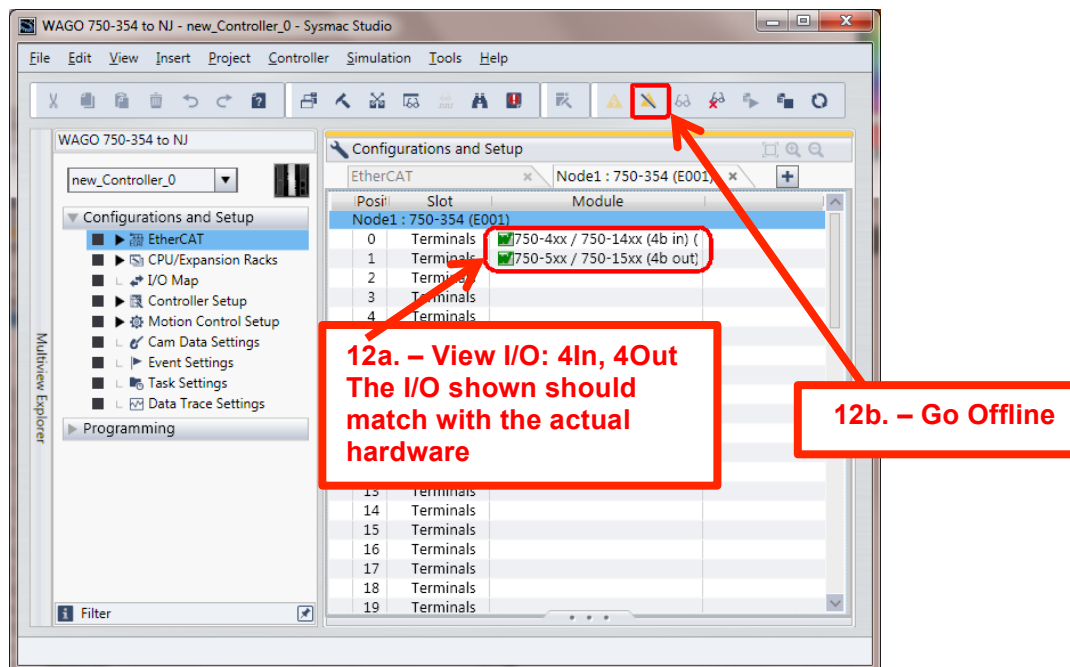
8b. – Select Write

9. Select Compare and Merge

10. Apply actual network configuration
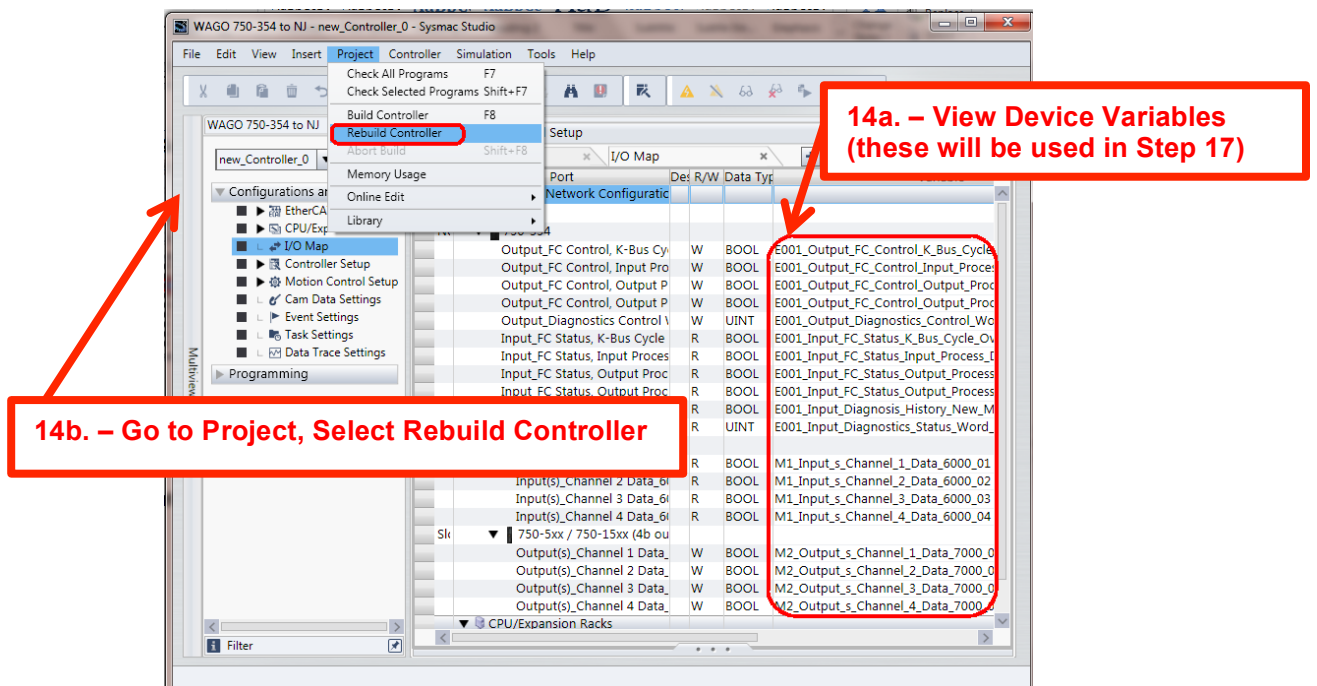
11. Edit Module Configuration to see the I/O

12. View the I/O, 4 Digital In, 4 Digital Out, Go Offline
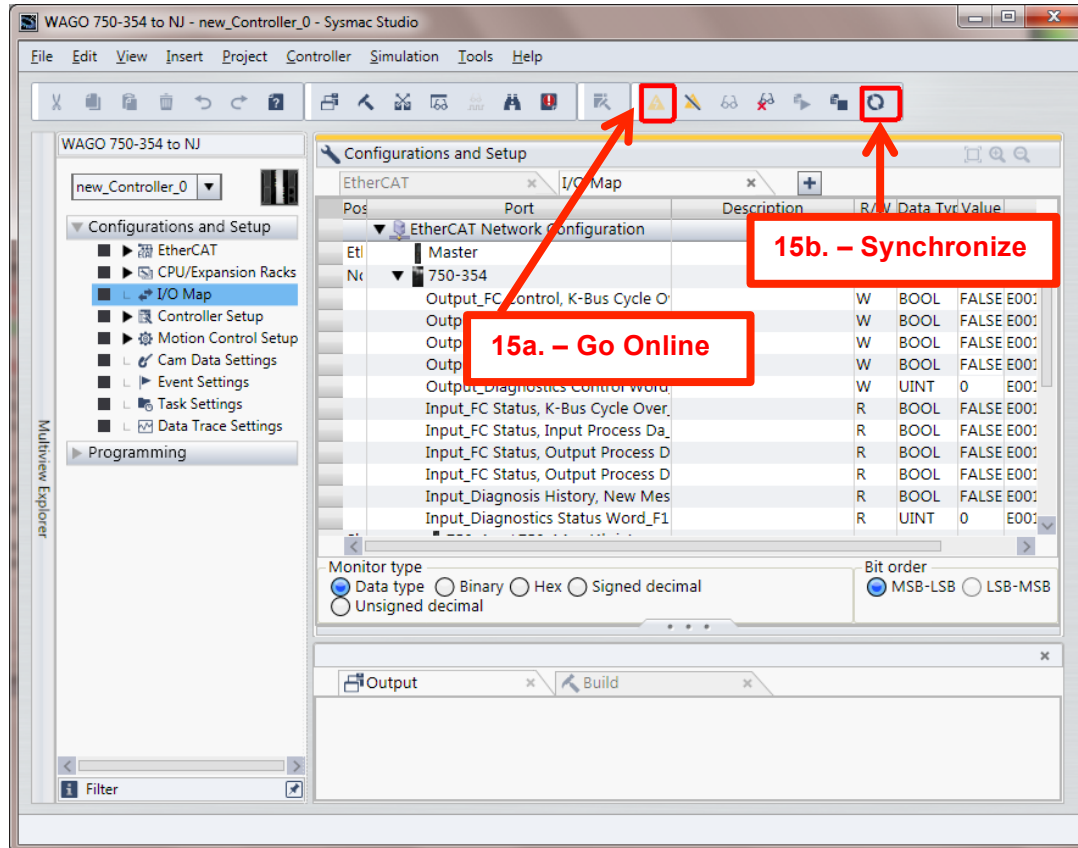
13. Go to I/O Map, Create Device Variables

13b. – Select Create Device Variables

13a. – Right mouse click
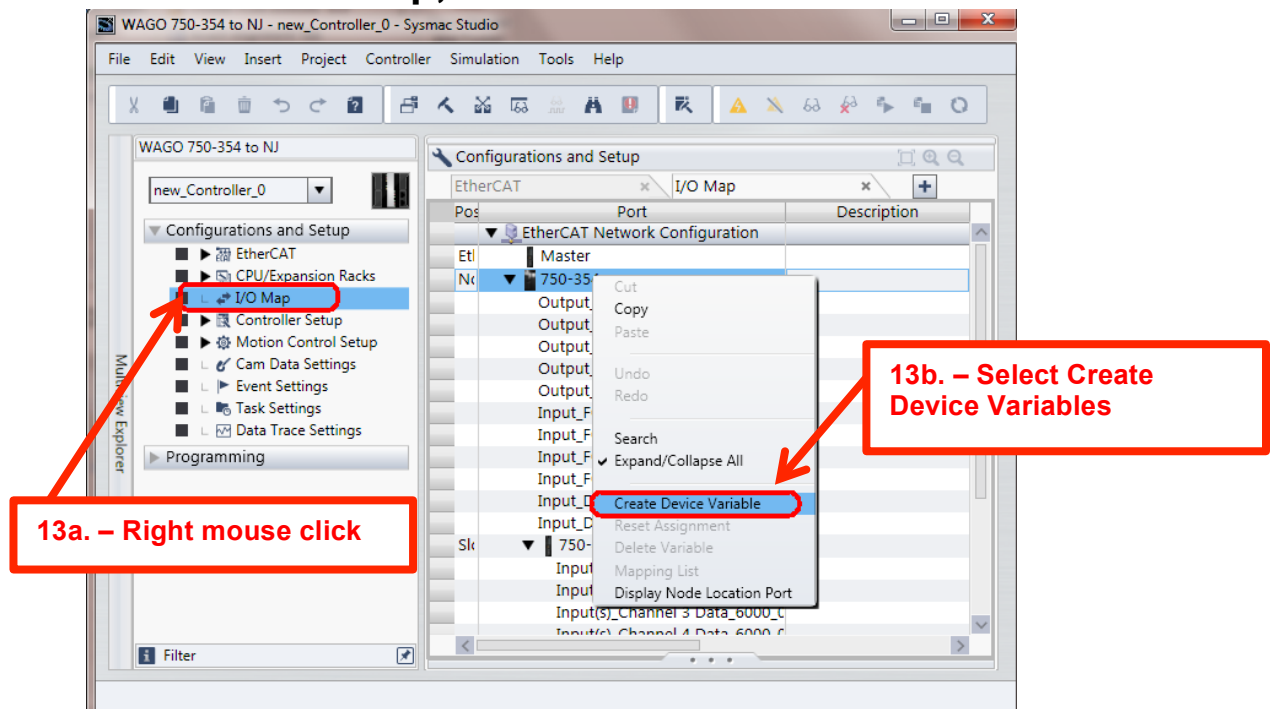
14. View Device Variables, Rebuild Controller (Compile)

14a. – View Device Variables (these will be used in Step 17)

14b. – Go to Project, Select Rebuild Controller

15. Go Online and then Synchronize

16. Transfer To Controller
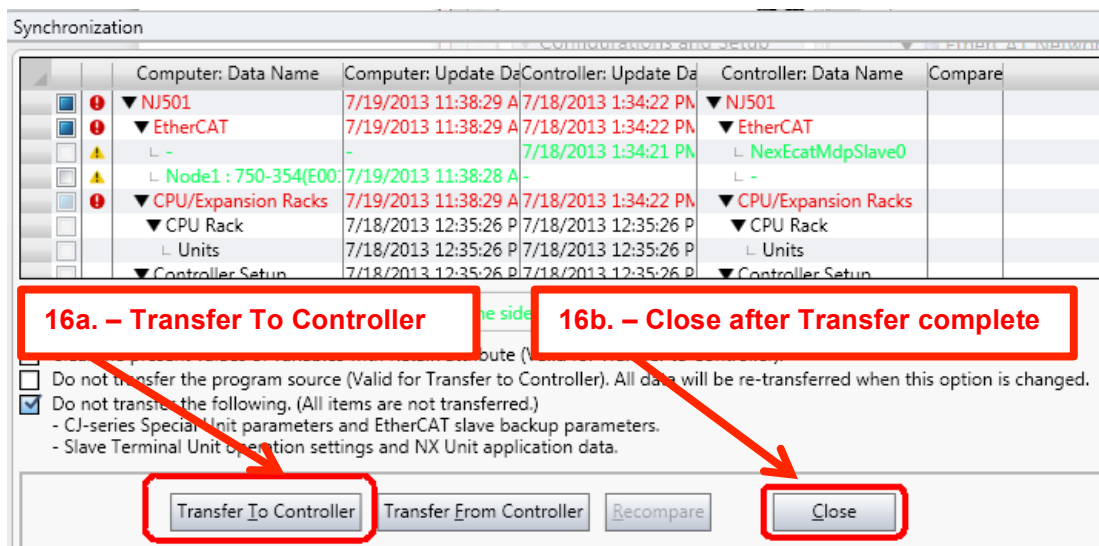
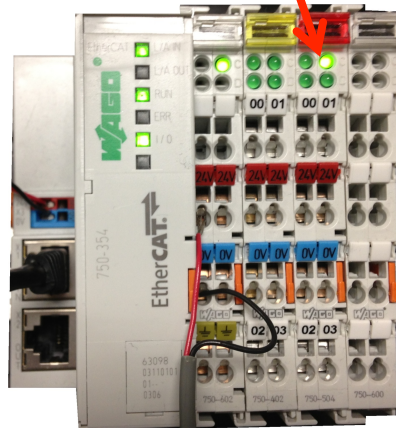## 17. Set to Run, Turn on Output Channel 2

17a. – Set Controller to Run Mode

17b. – Controller Status (should now be set to Run mode)

17c. – Right mouse click and select Edit

17d. – Right mouse click and select Set (The value will change from FALSE to TRUE)

17e. – Verify Output Ch 2 LED is on

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

**Please visit our YouTube Channel for Omron Quick Tip and other videos:
https://www.youtube.com/user/OmronAutomationTech**