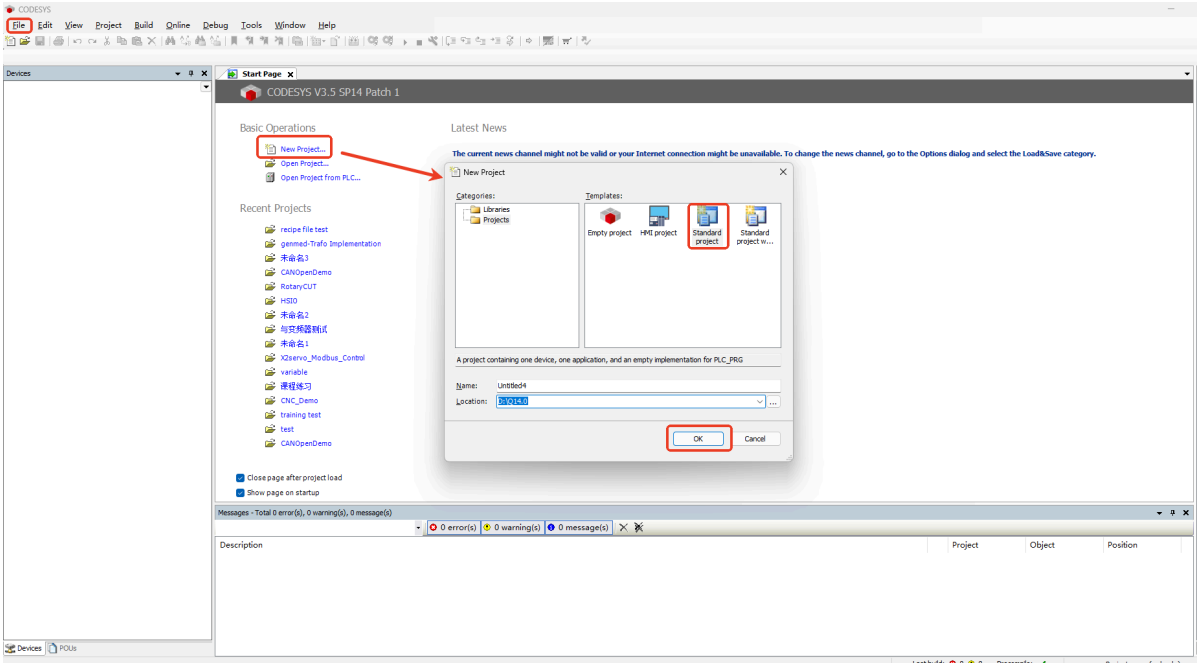
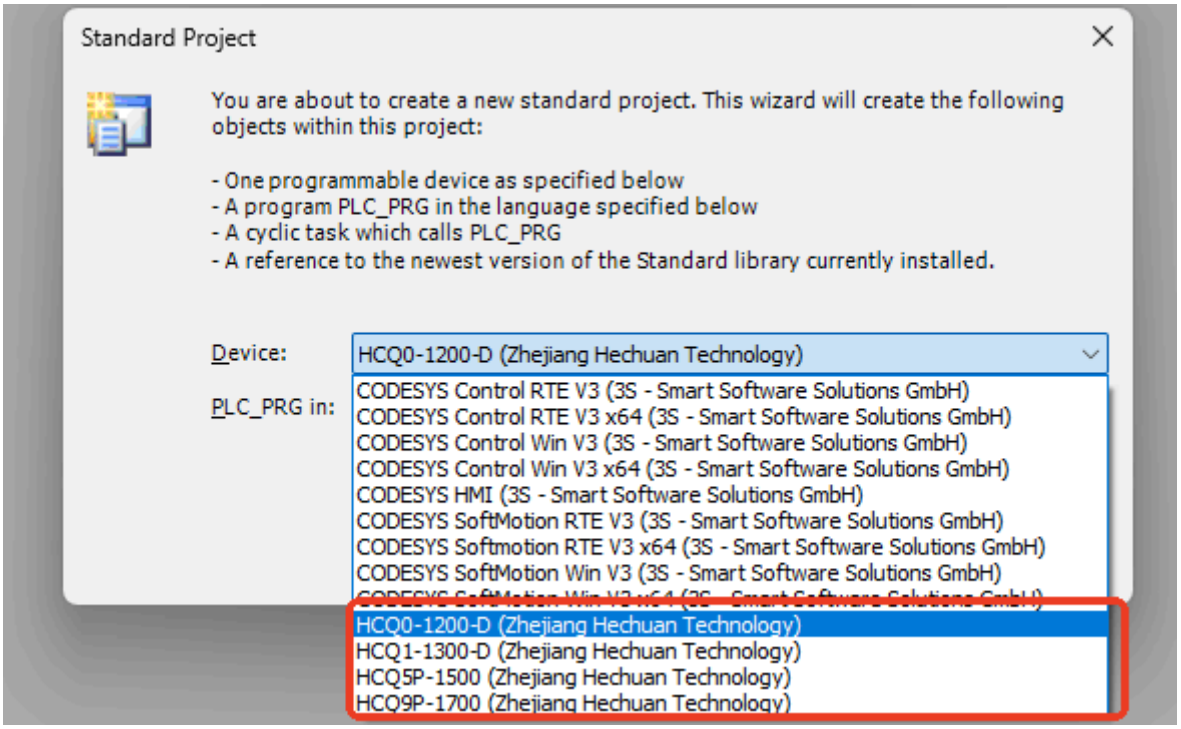
Q series PLC setup

Create a new project

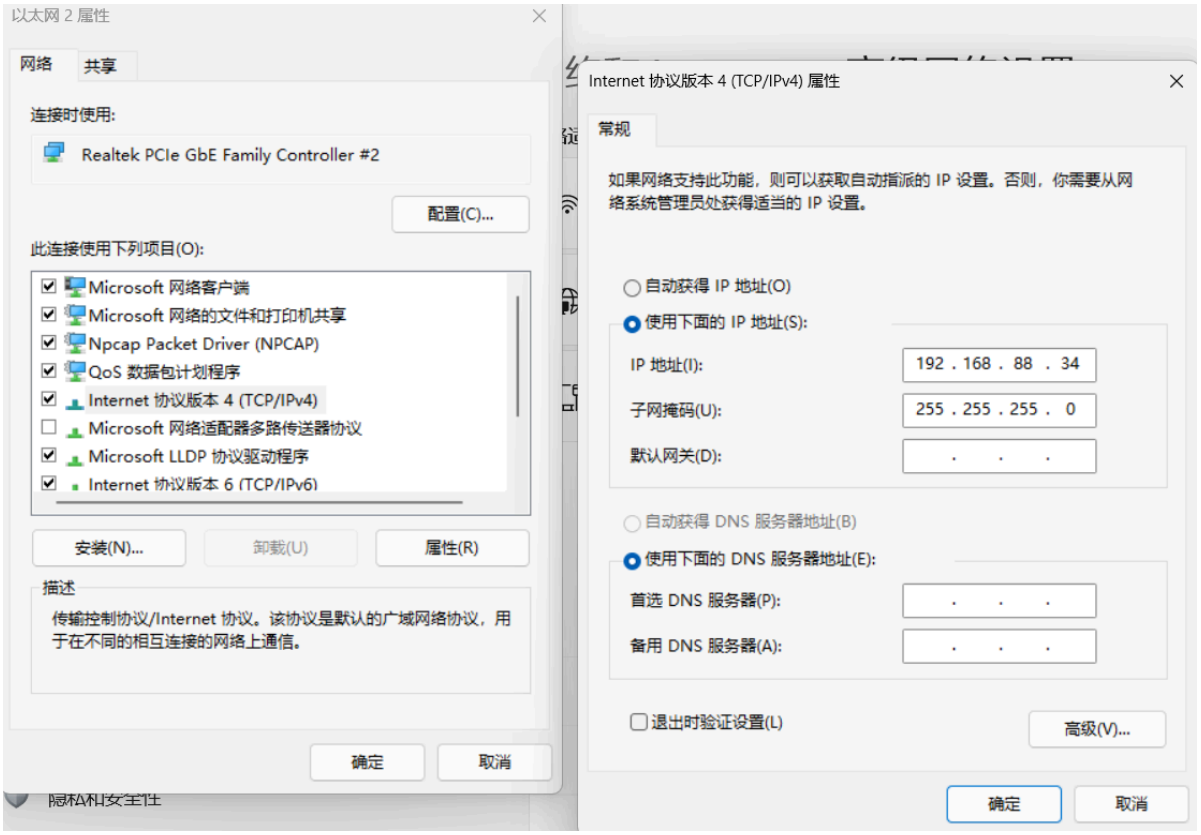
1.Choose the Standard project.



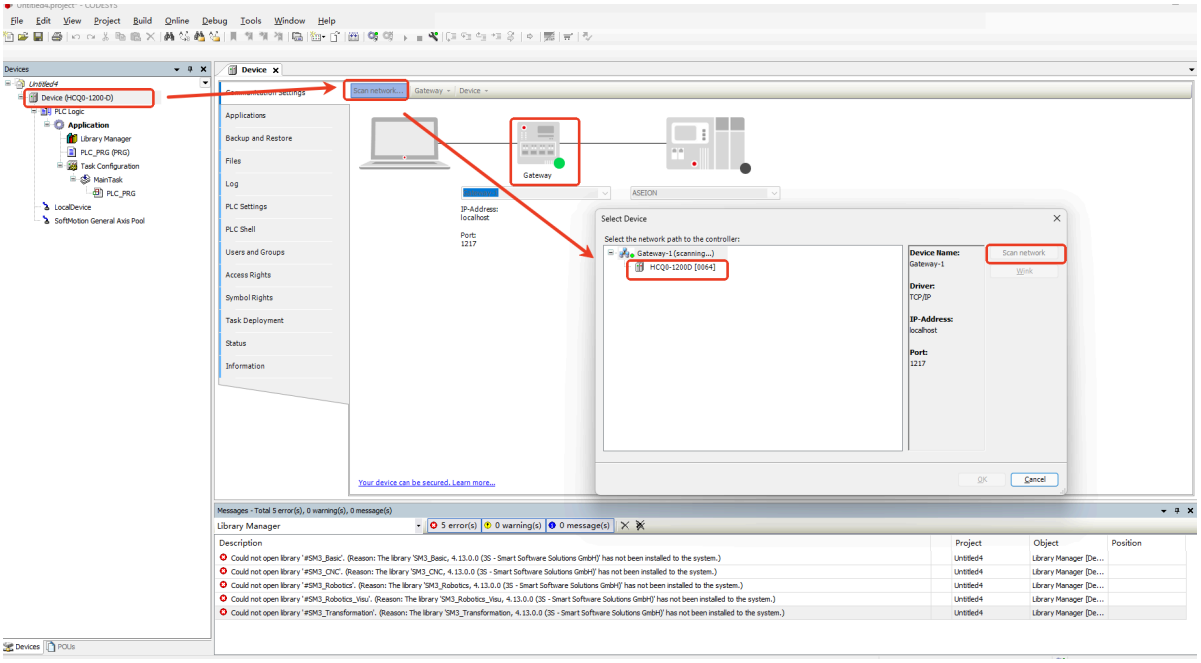
2. Select the PLC you are using

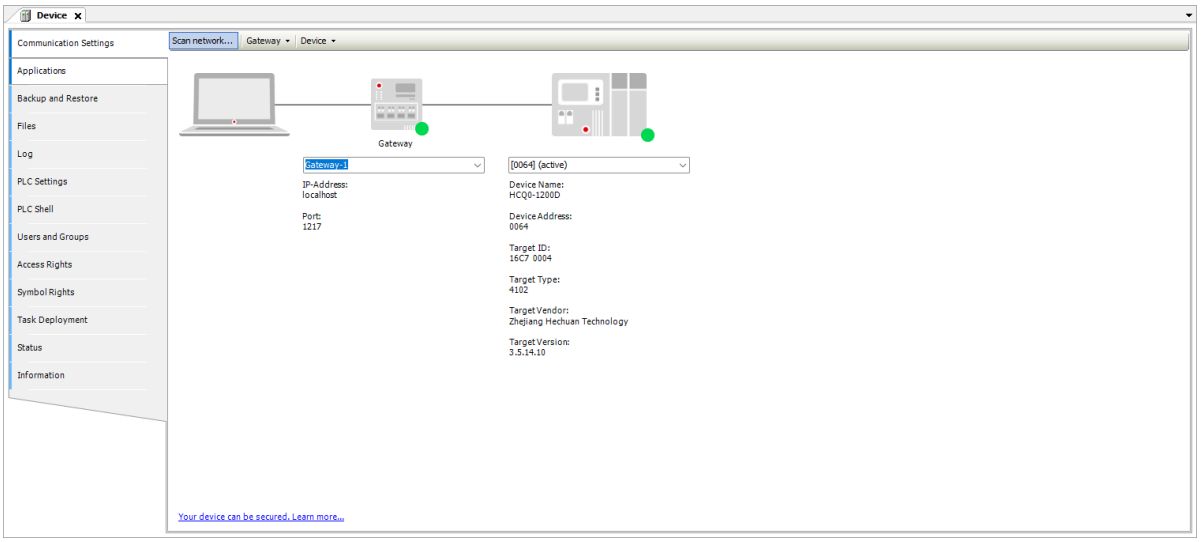


3. Check the PC's IP setting, since the Q0's default IP is 192.168.88.100, Change the PC's Ip setting to 192.168.88.xxx

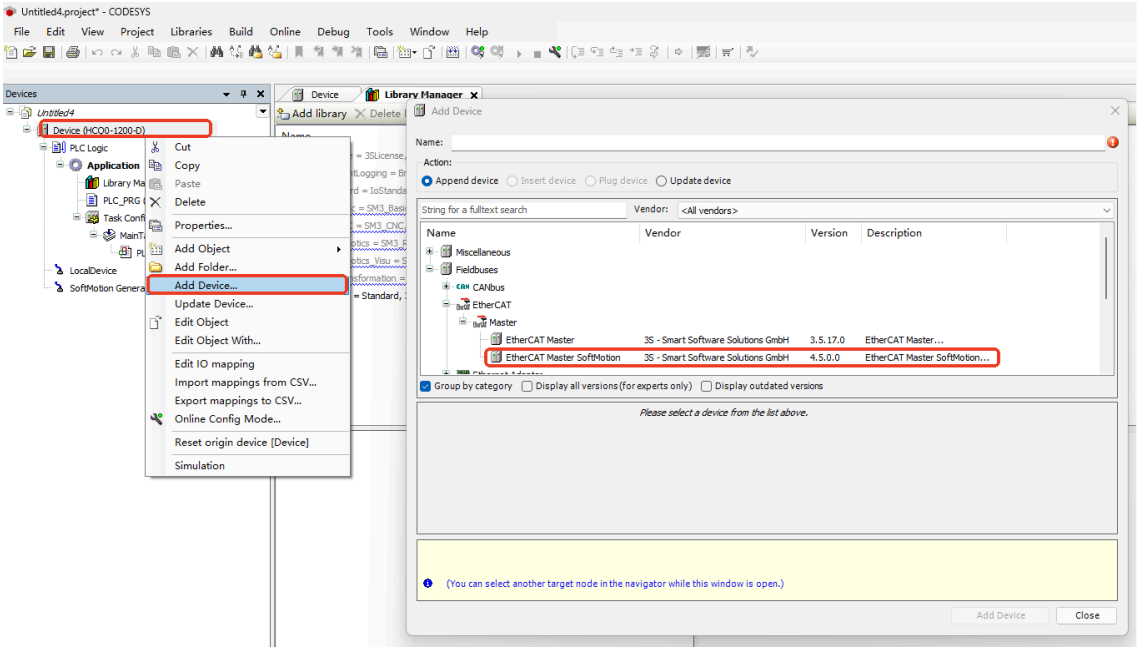


4. Connect PLC to codesys software, make sure the gateway's indicator is green, then double click the PLC device

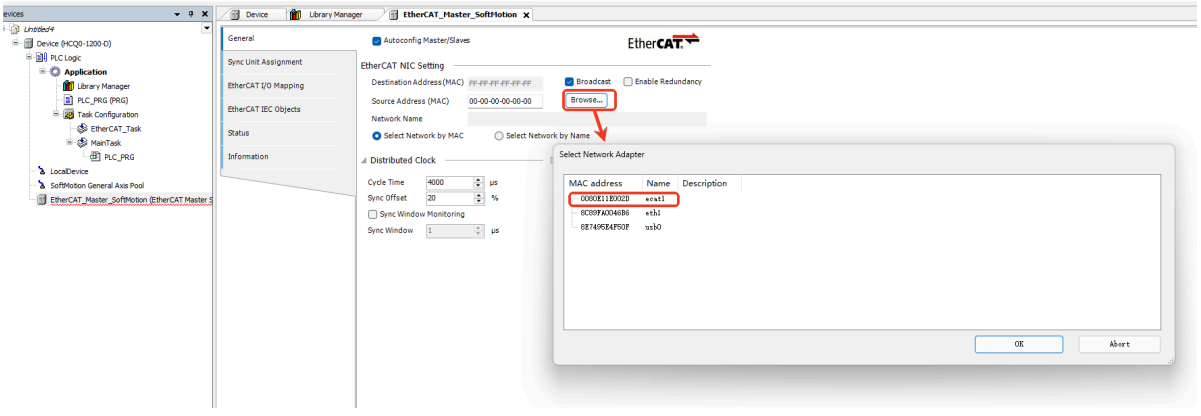




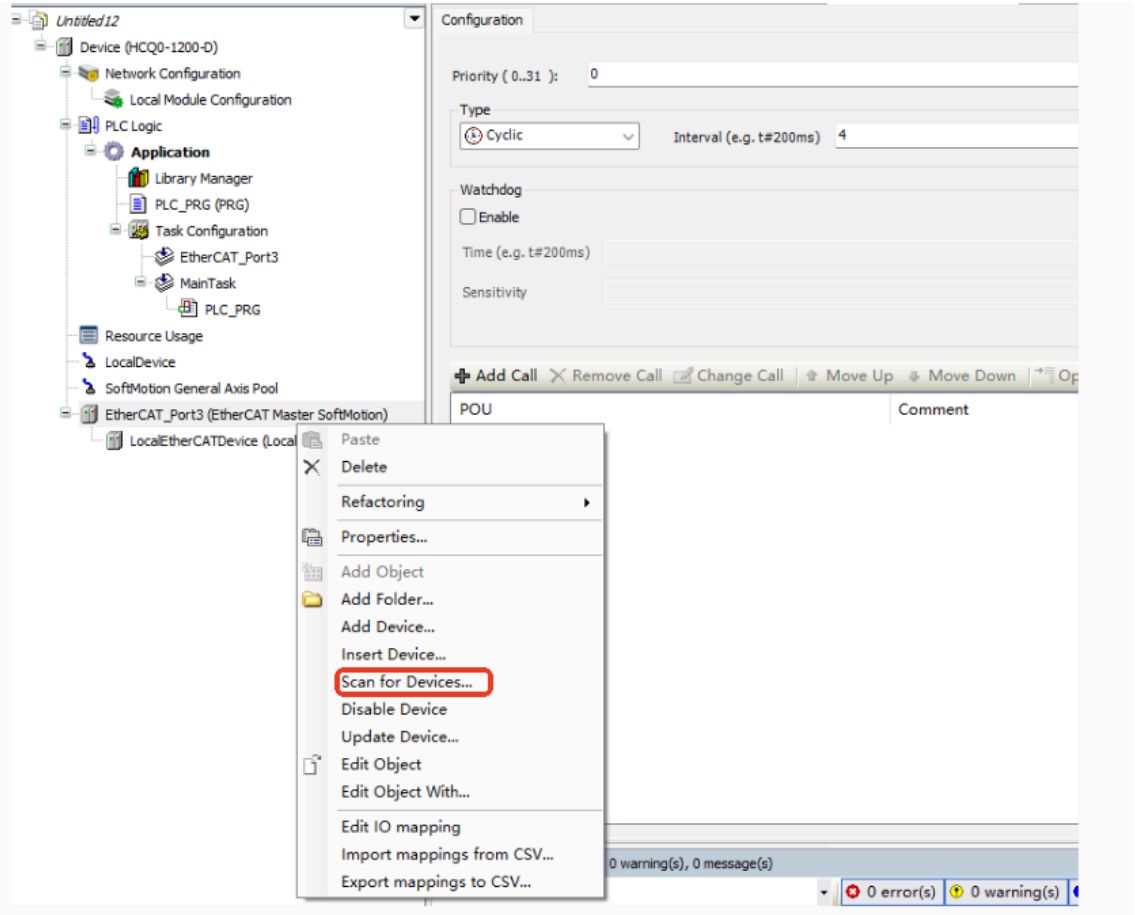
5. Device -> Add device -> Add EtherCAT master motion



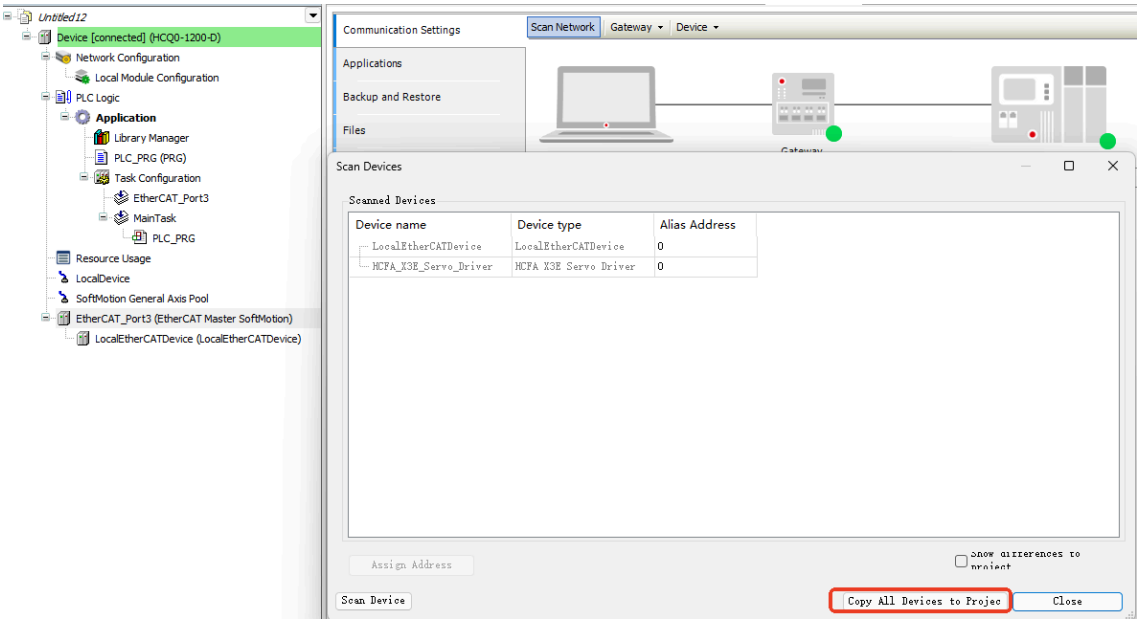
6. Click browse then select the ecat1 or choose the “Select Network by Name”



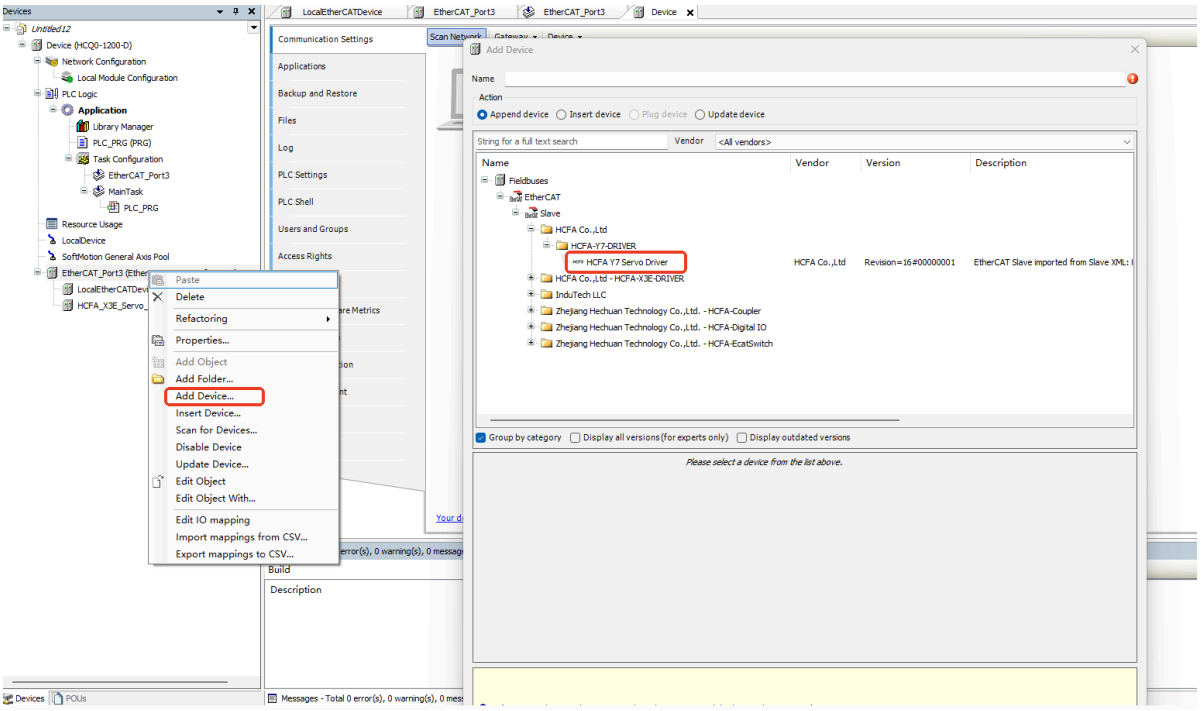
7. Click the “Scan for Devices”



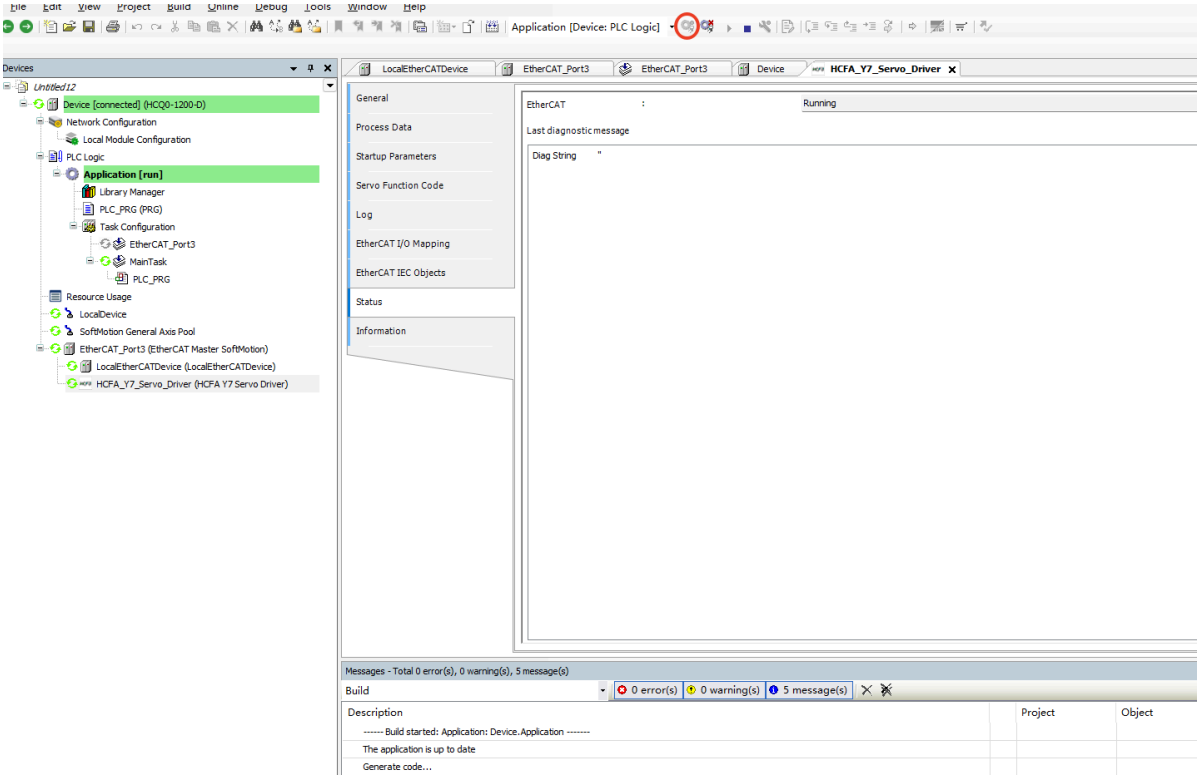
8. Copy all devices to projects or add manually



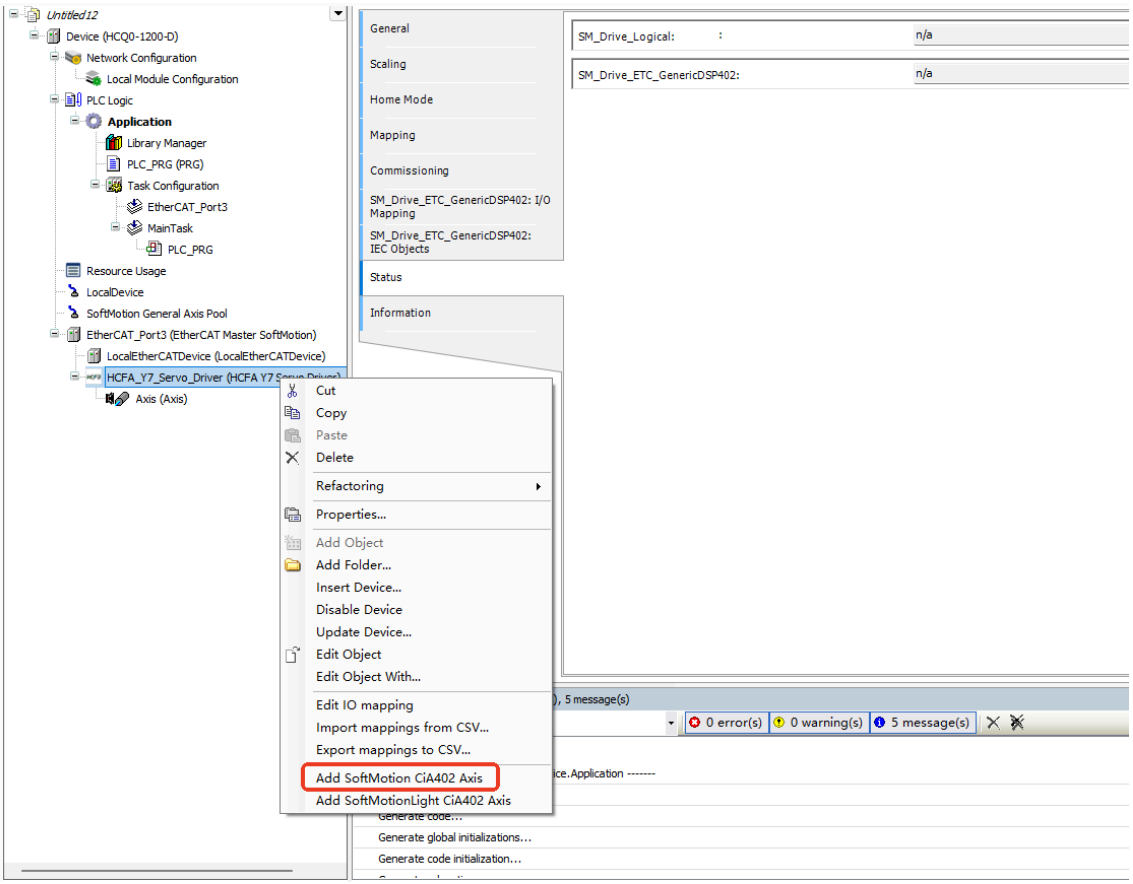
Manually add:



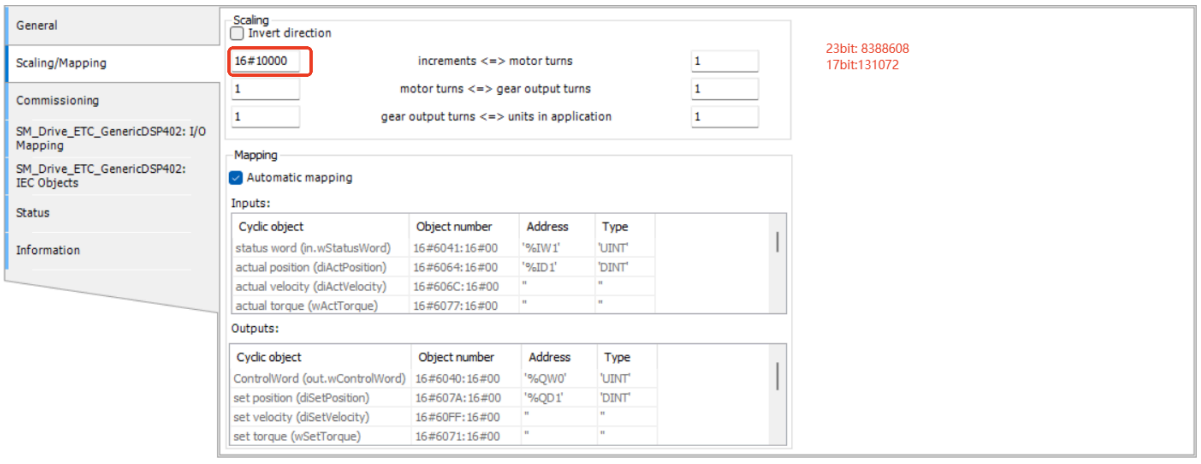
9. Then Click login to check the connection status



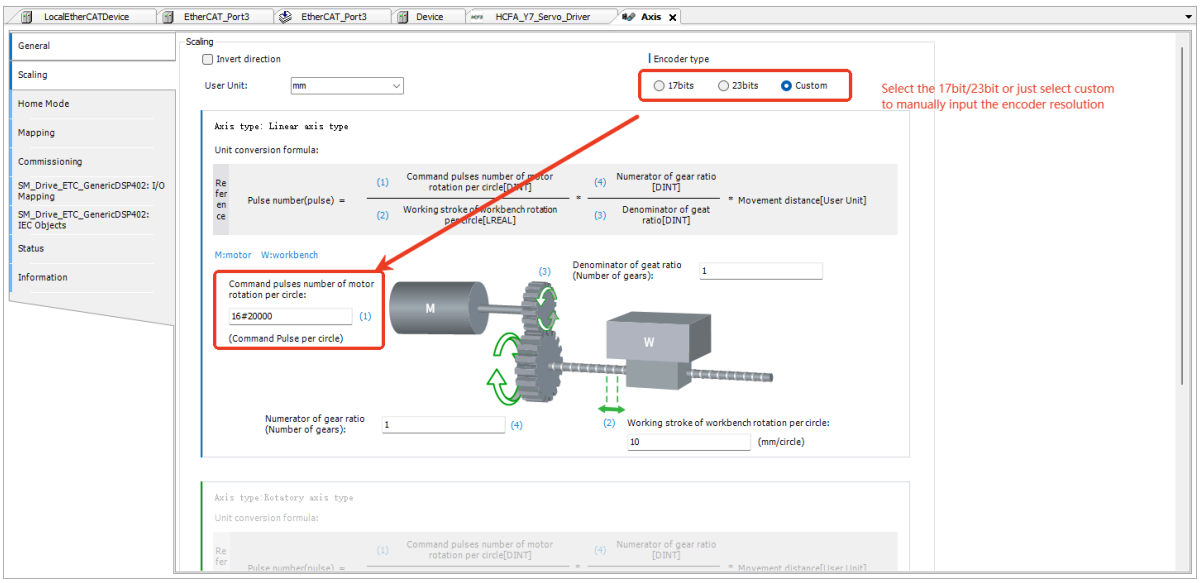
10. Add axis，select the SoftMotion CiA402 Axis.



11.Scaling setting:

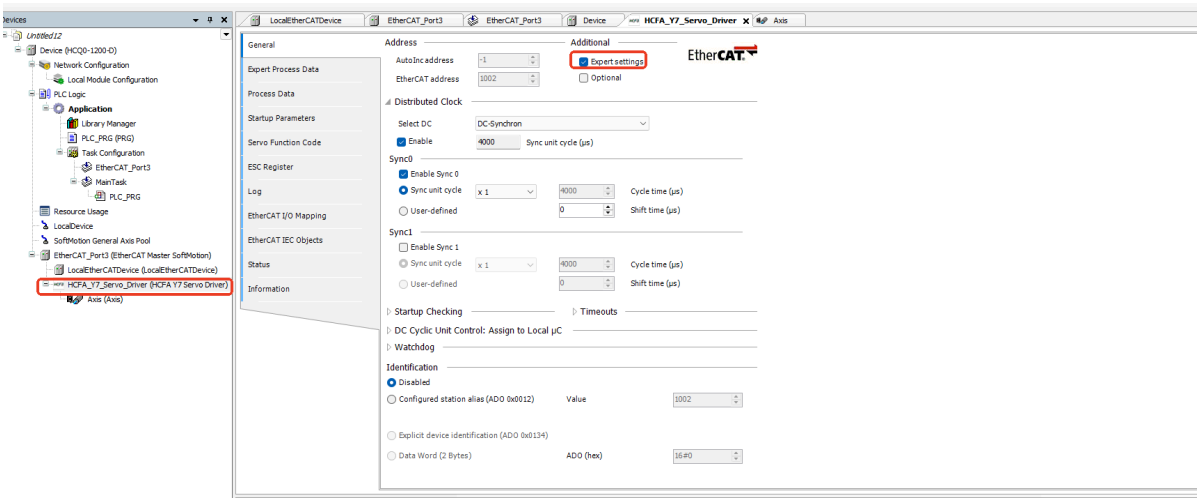


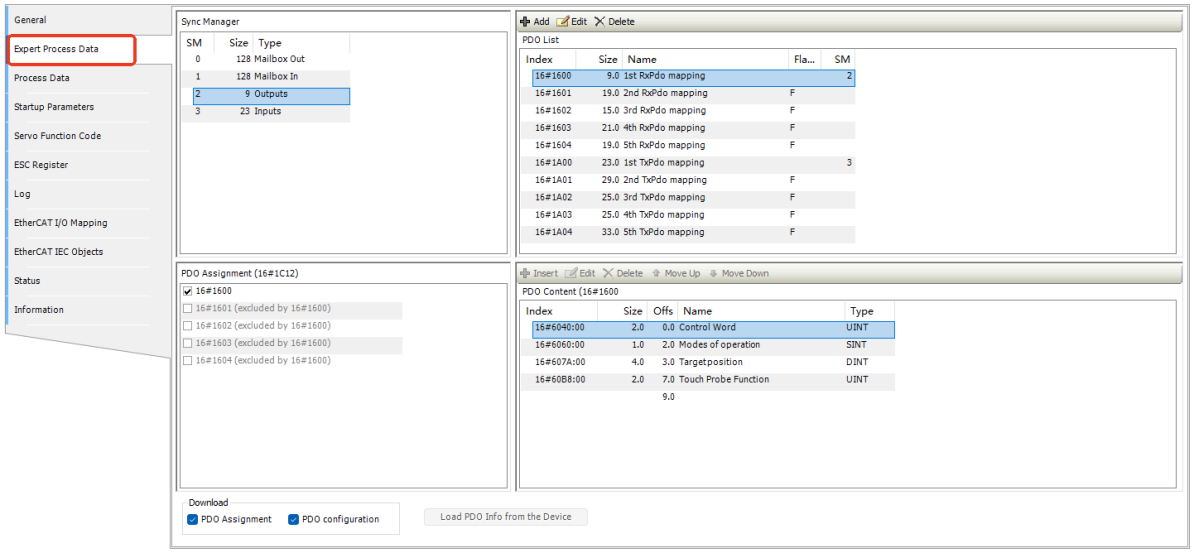
If using the HCPWorks3



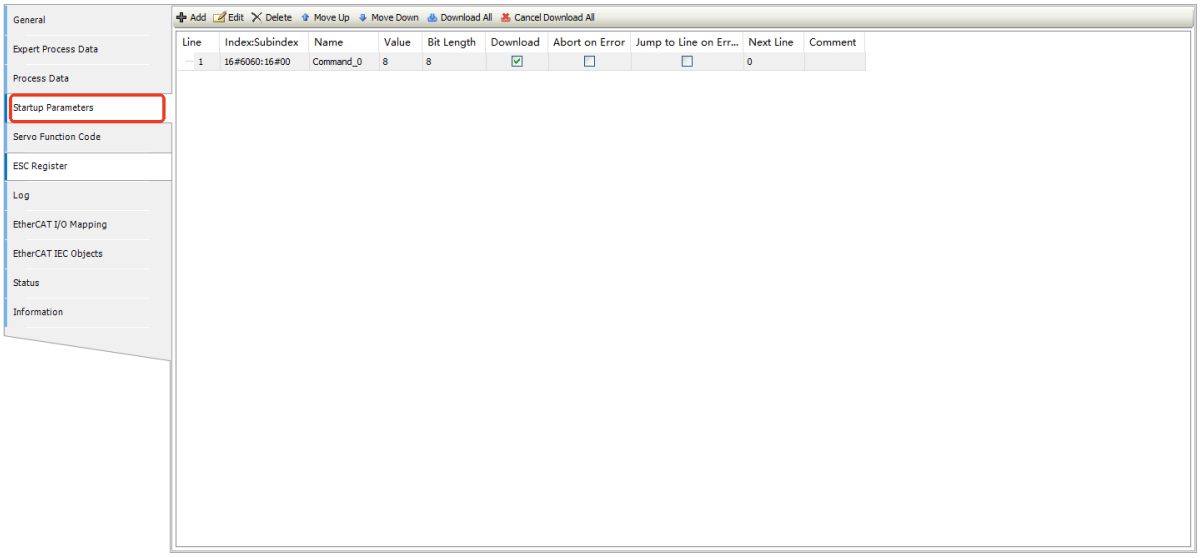
12. PDO/SDO related parameters for Servo:

Check the **Expert settings**

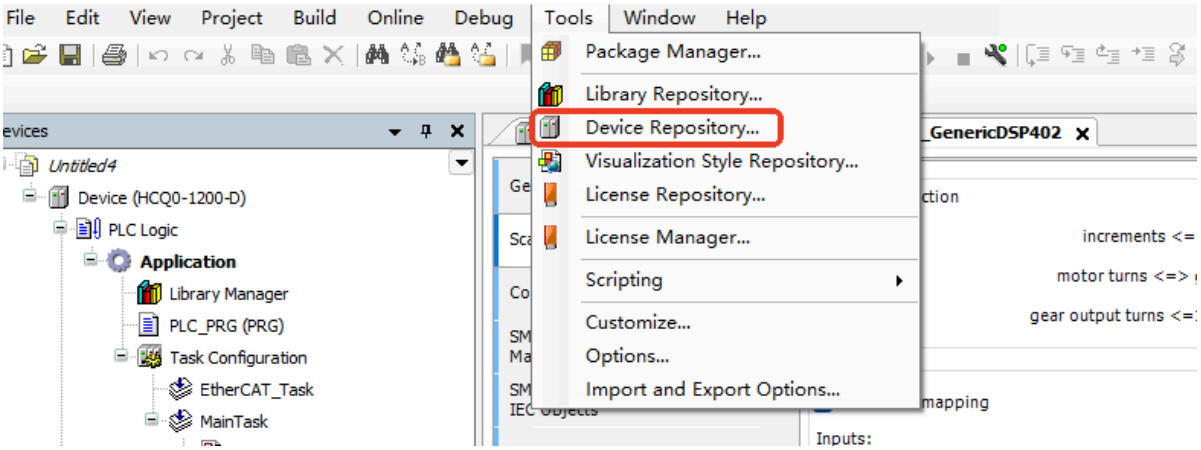




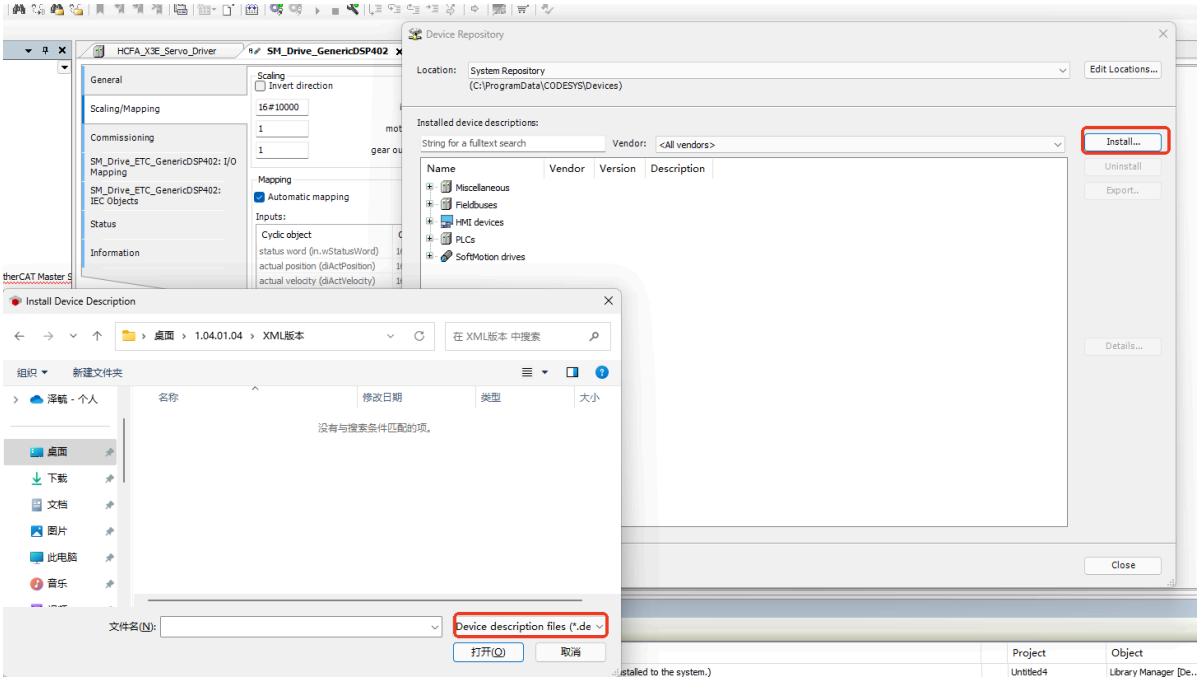
Startup Parameters



Install the Device description files



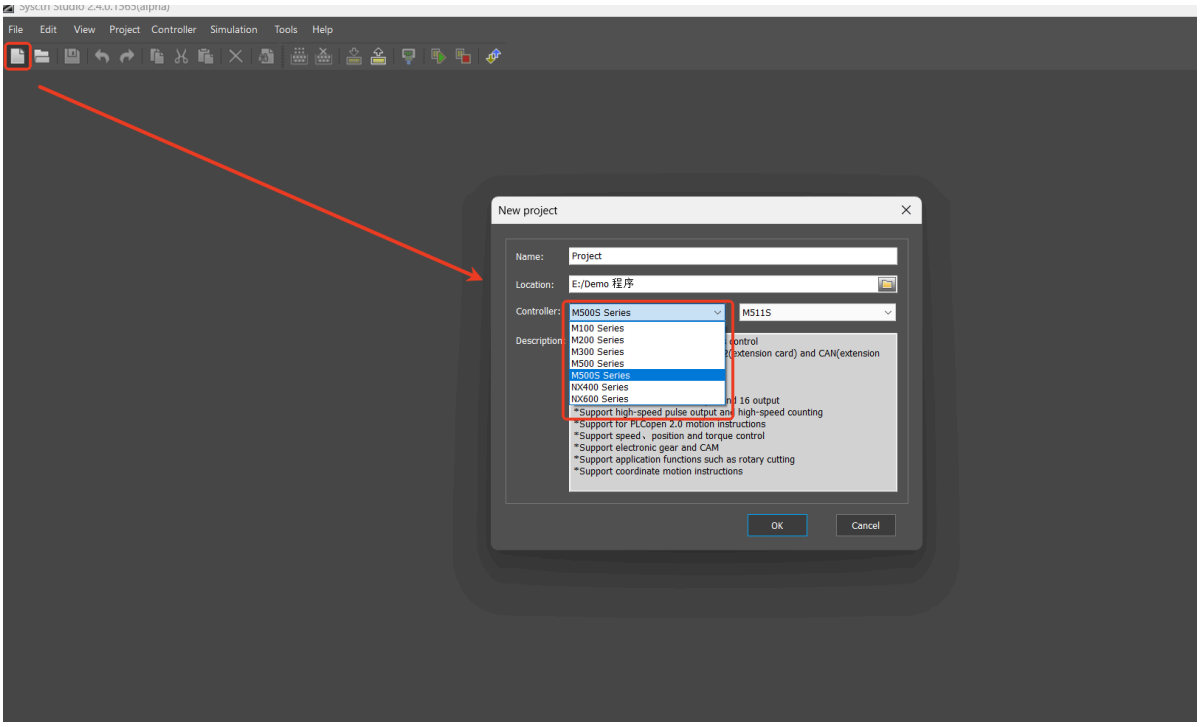
Click the install then choose the XML files you need to install



M series PLC

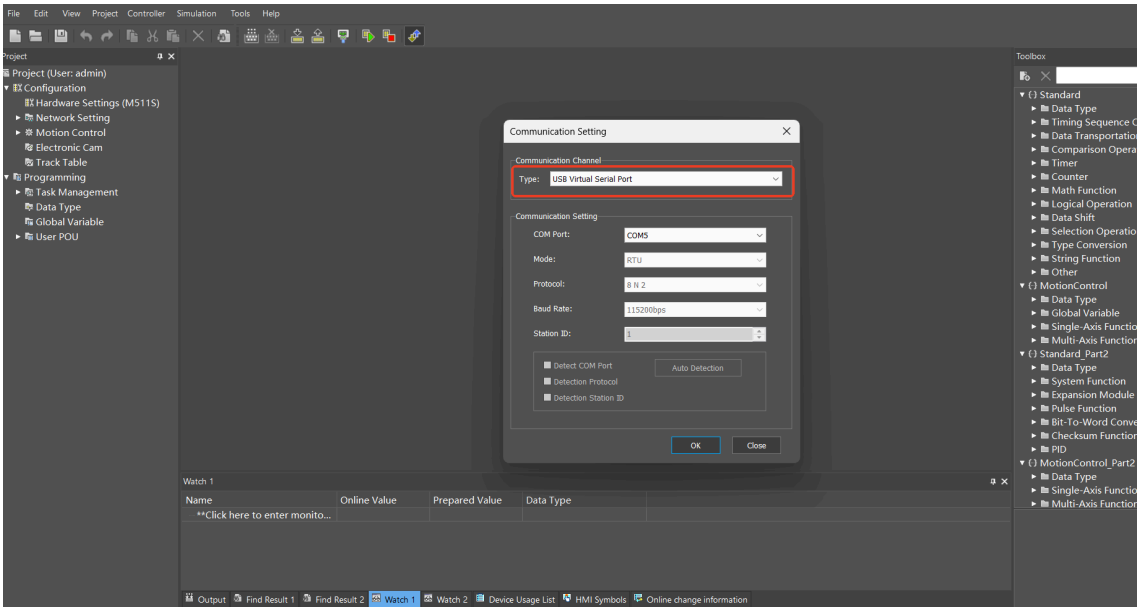
Create a new project

1. Choose the PLC that you are using



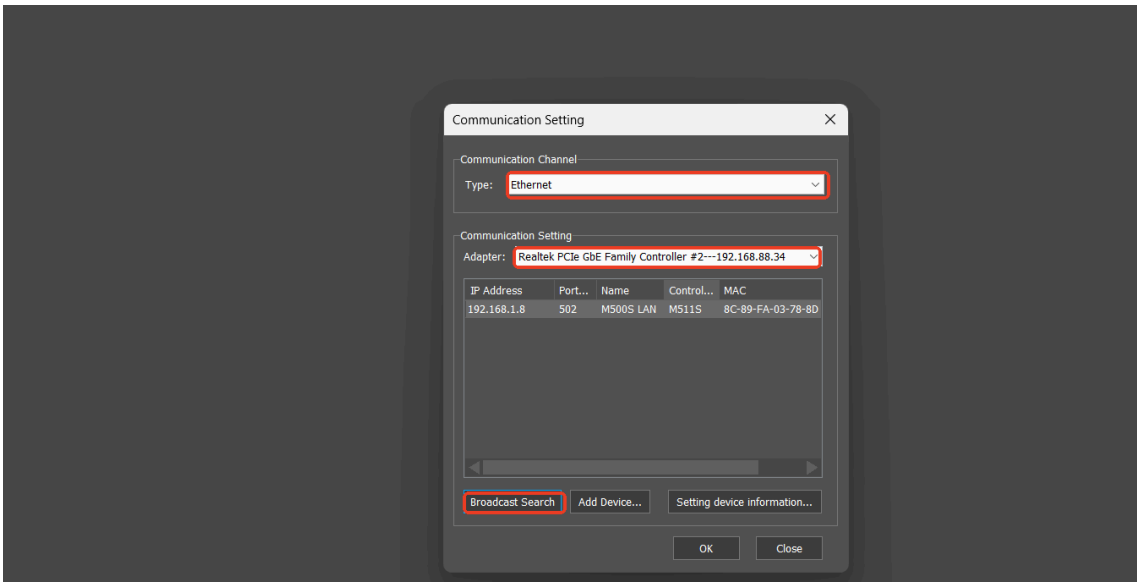
2. M511s provides two methods to connect the device: 1. USB-C port 2.EtherNet port

   Use USB to connect:



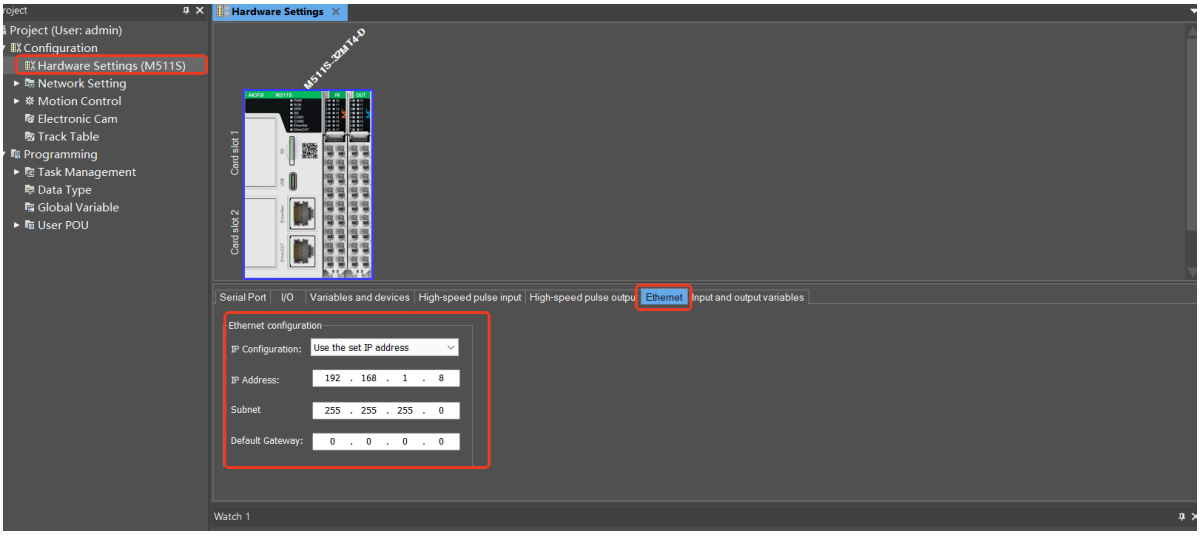
3. Use the EtherNet port to connect, Type: Ethernet, the Adapter uses as the photo shows.

   Then Click the Broadcast Search,

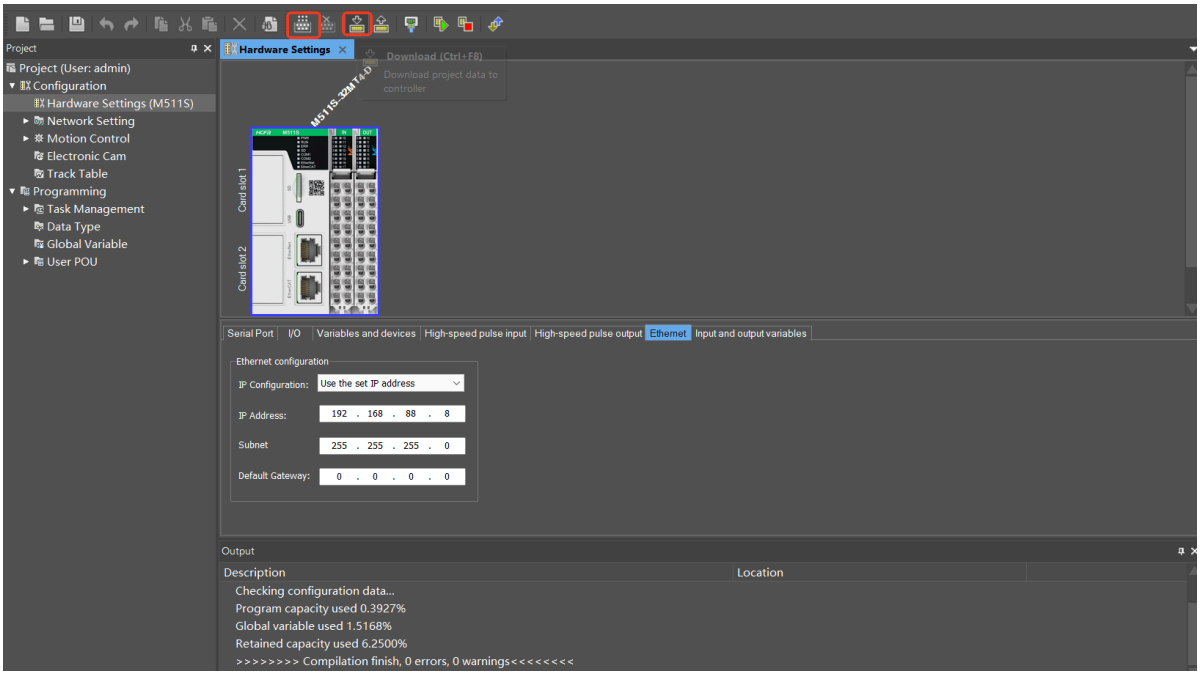


4. Change the IP address of the PLC.

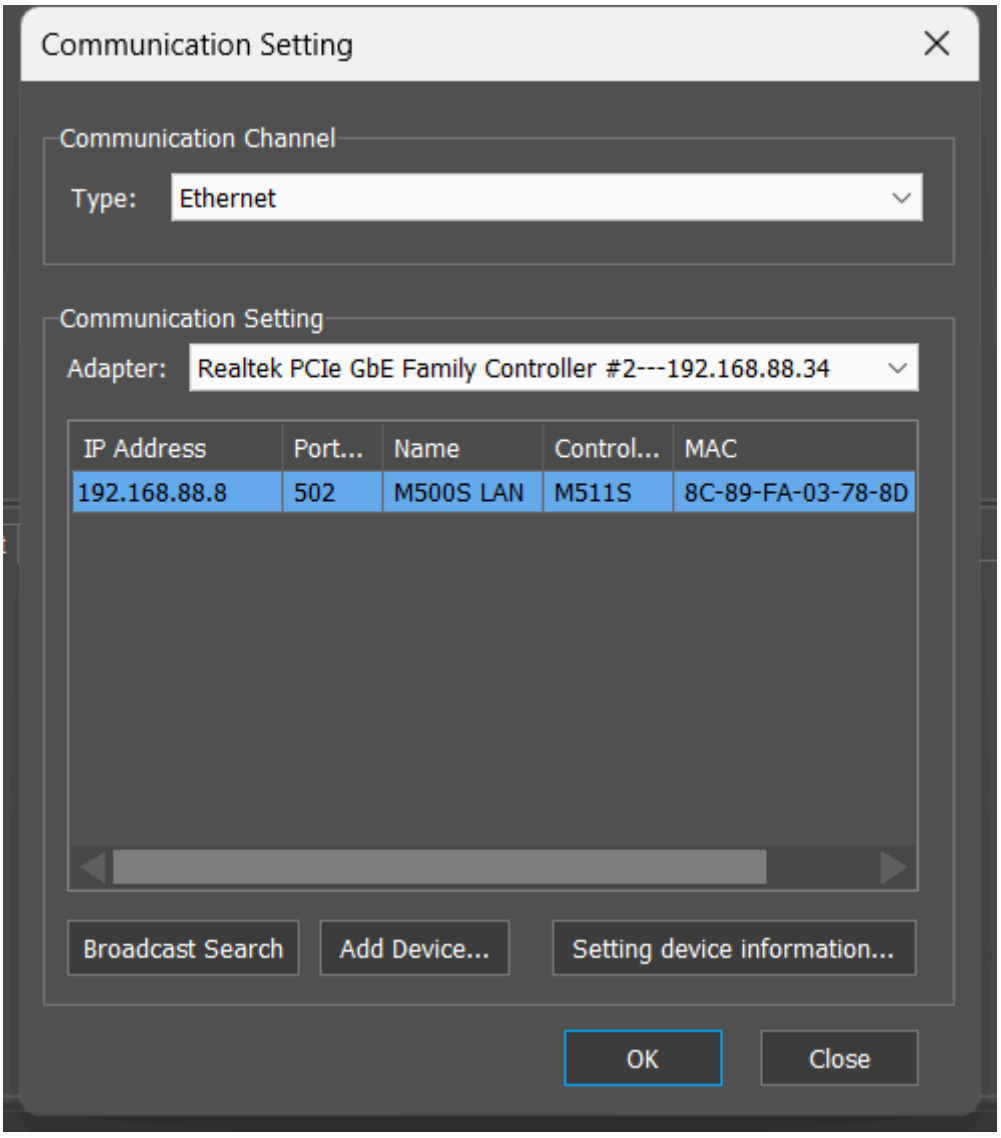
Since we can use the USB to connect the device, we can modify the PLC's IP address



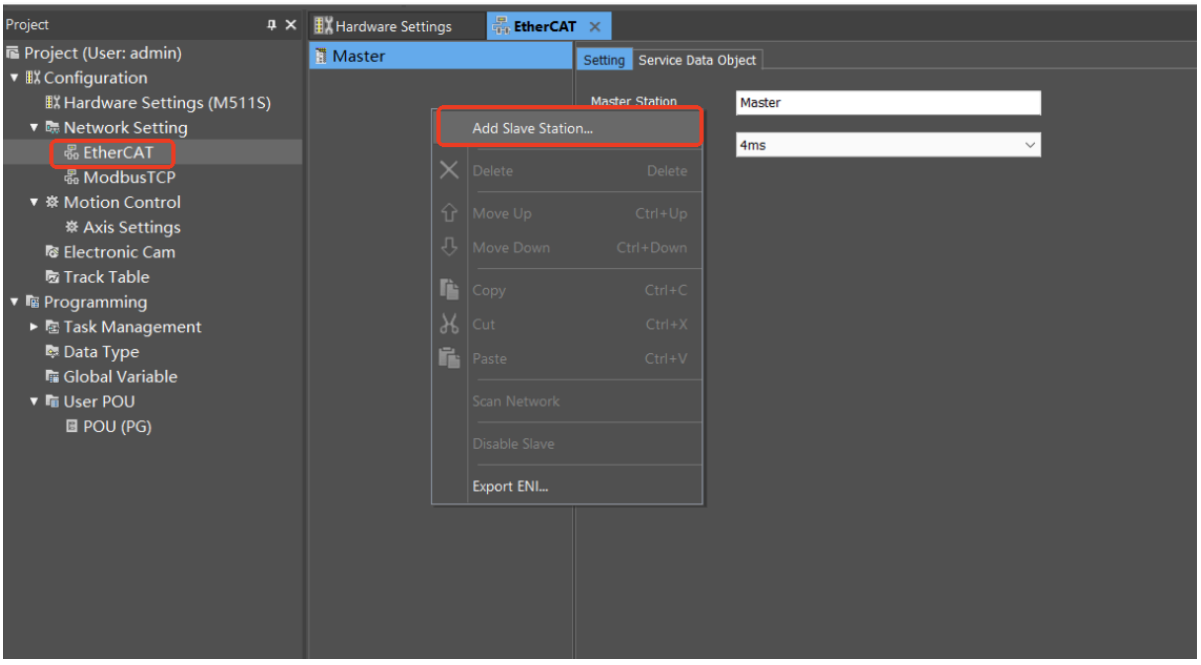
Compile and download to device, then power Off and On to check the IP address.



Then re-broadcast search to check the IP

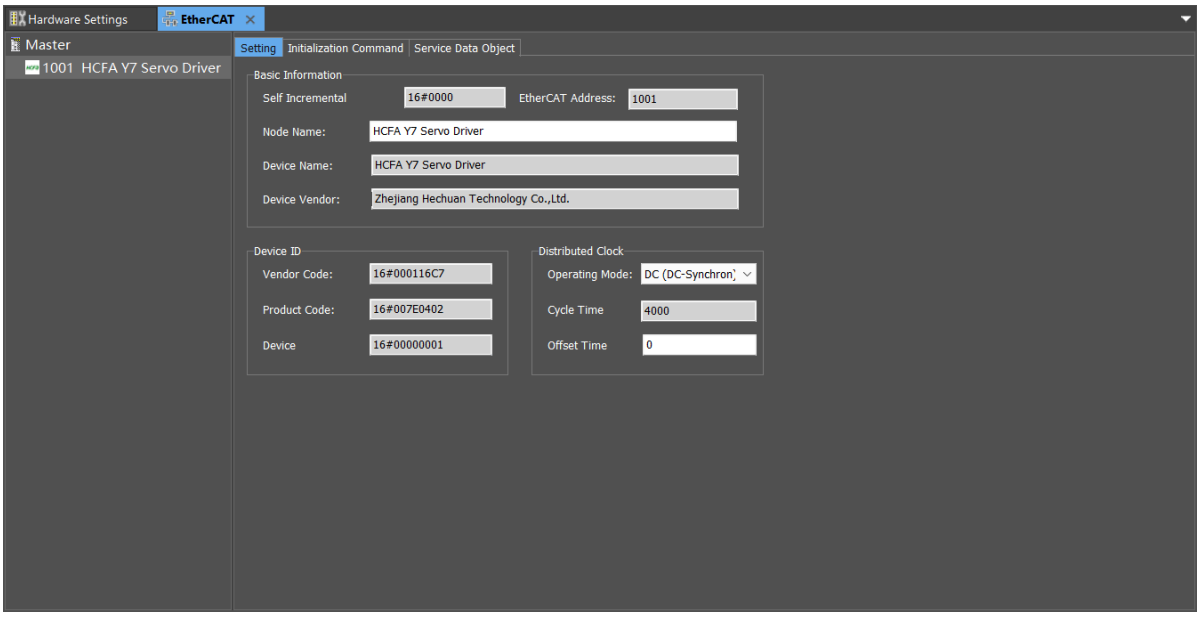


5. Add EtherCAT devices, right click to add the slave station:

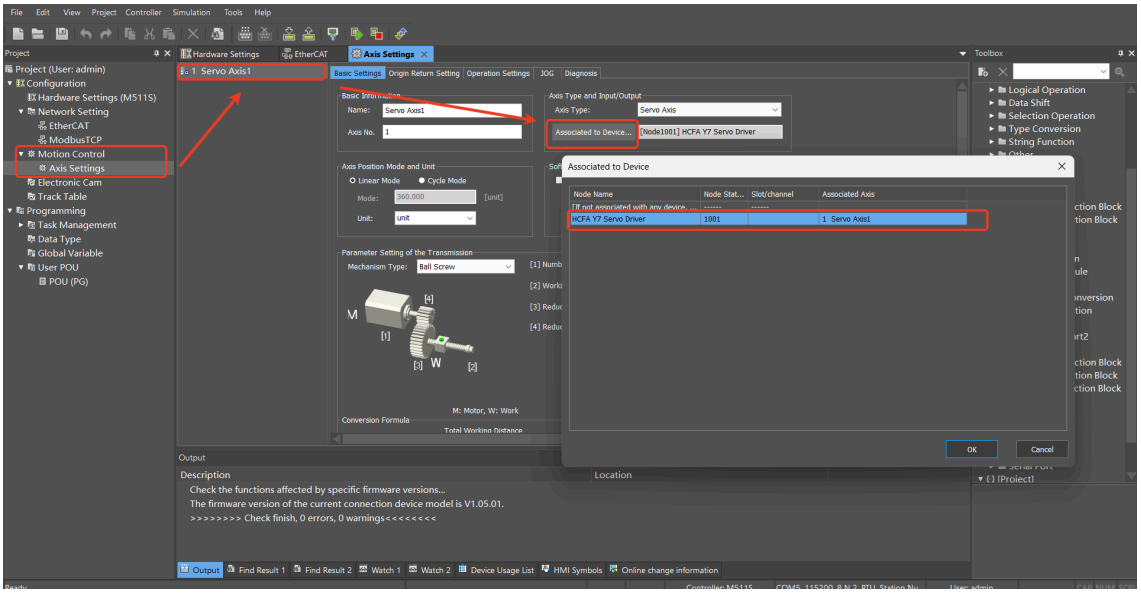


Since the M511s not supports 3rd party devices, the supported slave devices are shown as the list:

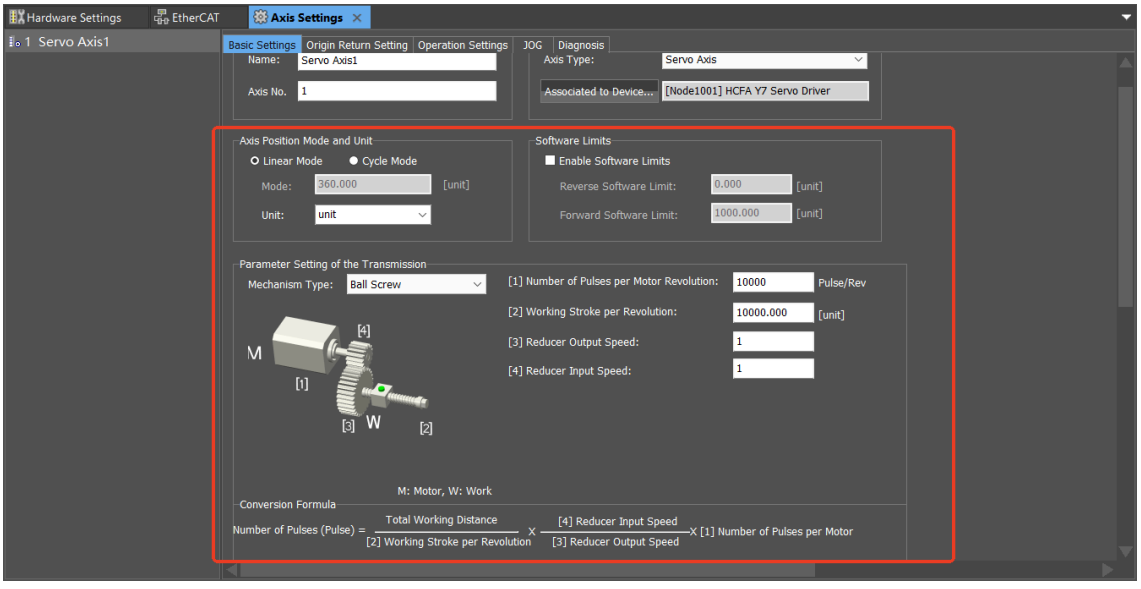
6. Add EtherCAT devices, right click to add the slave station:

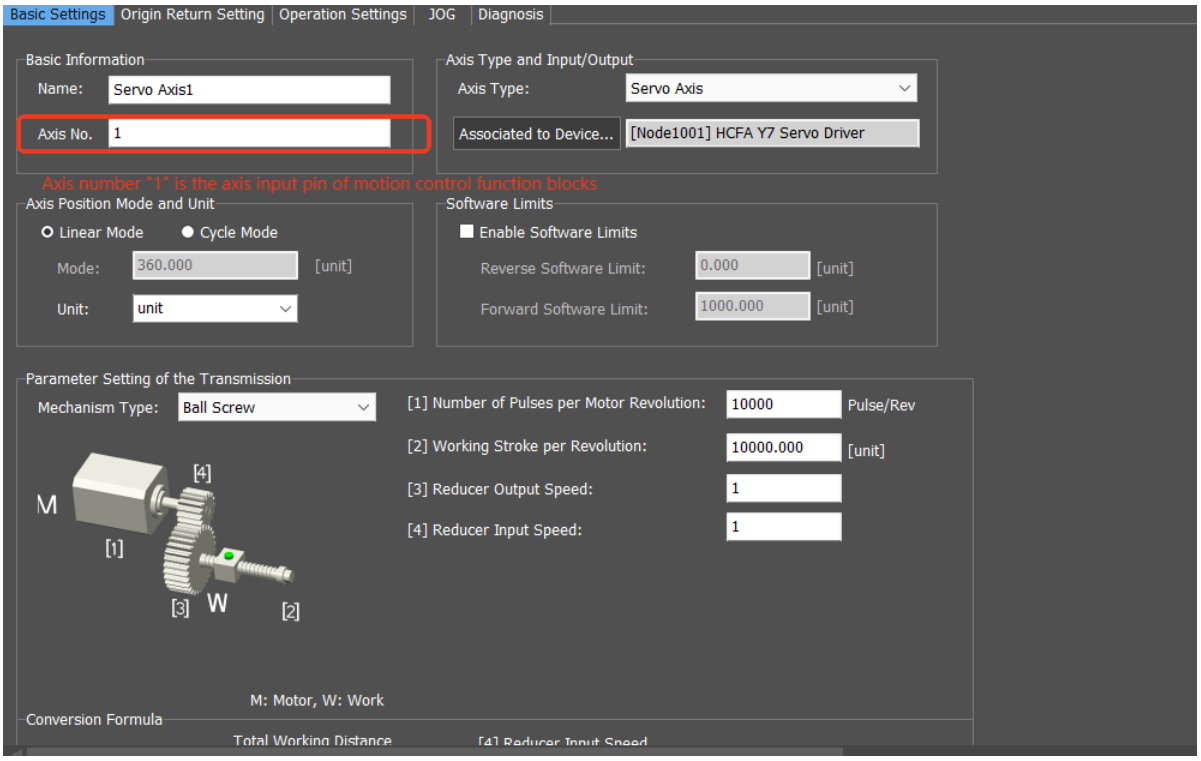


7. Add axis method: Right click to add the servo axis then associate to the servo drive



8. Axis setting (Gear ratio setting)

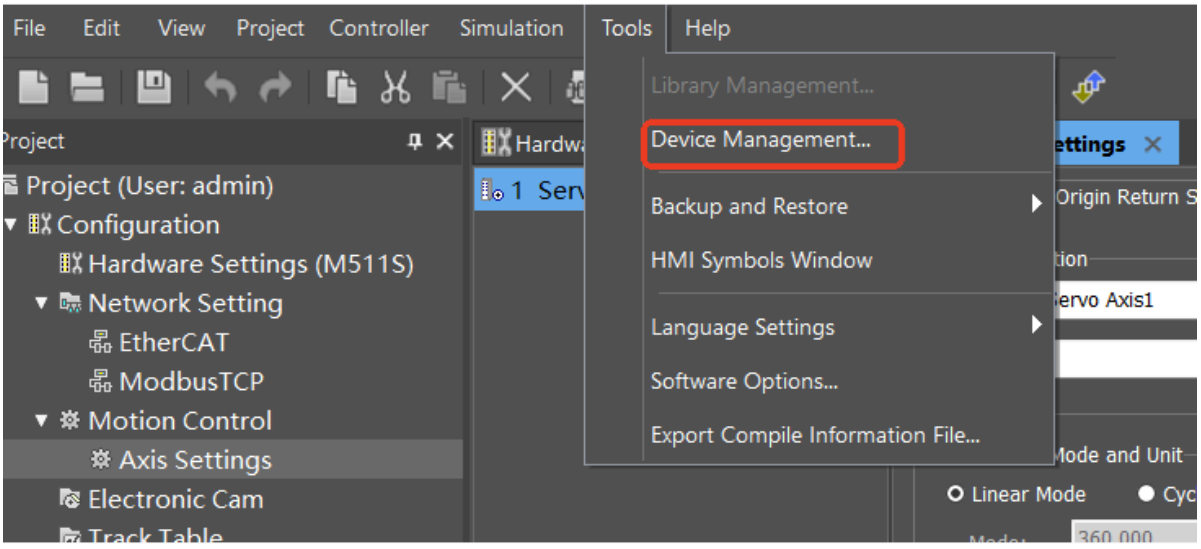




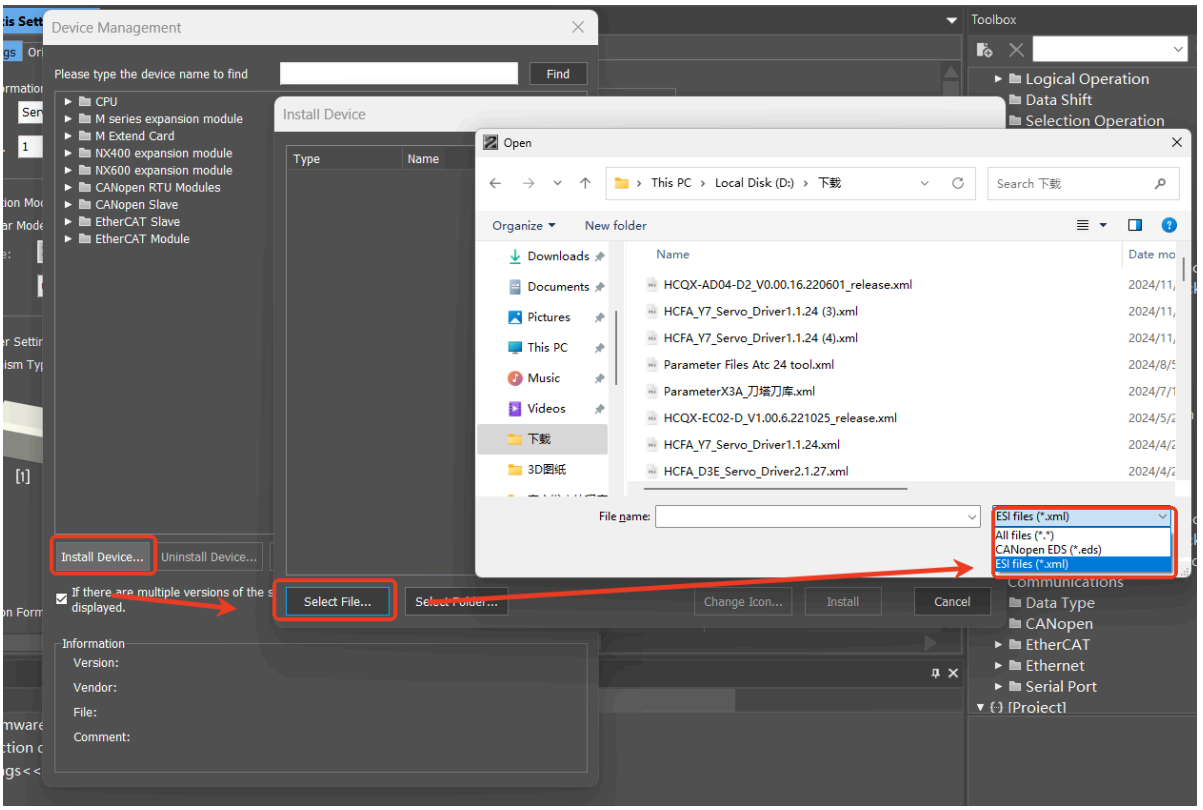
Install the Device description files

Not for M500s series(not supports the EtherCAT 3rd party devices), even if you install the new xml files, the device will not show in the list.

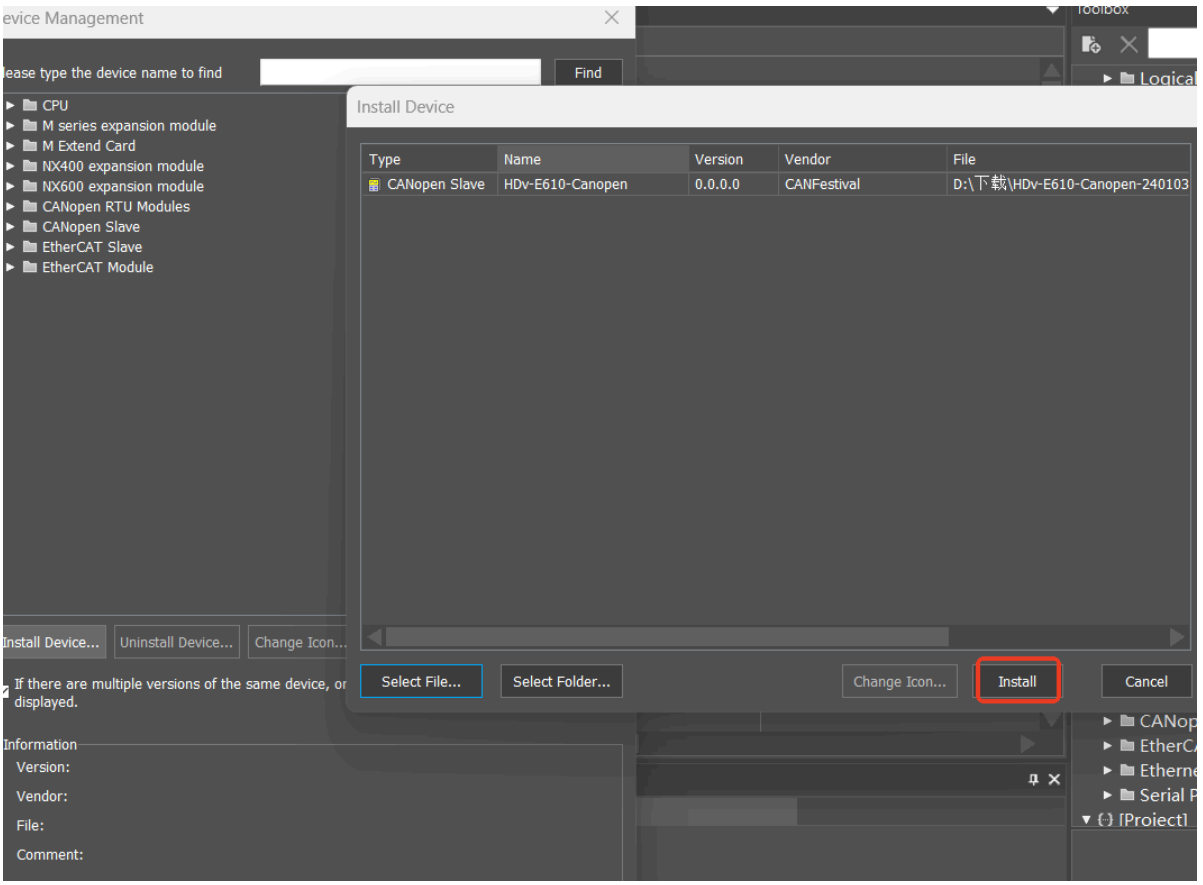
1. Open the device management:



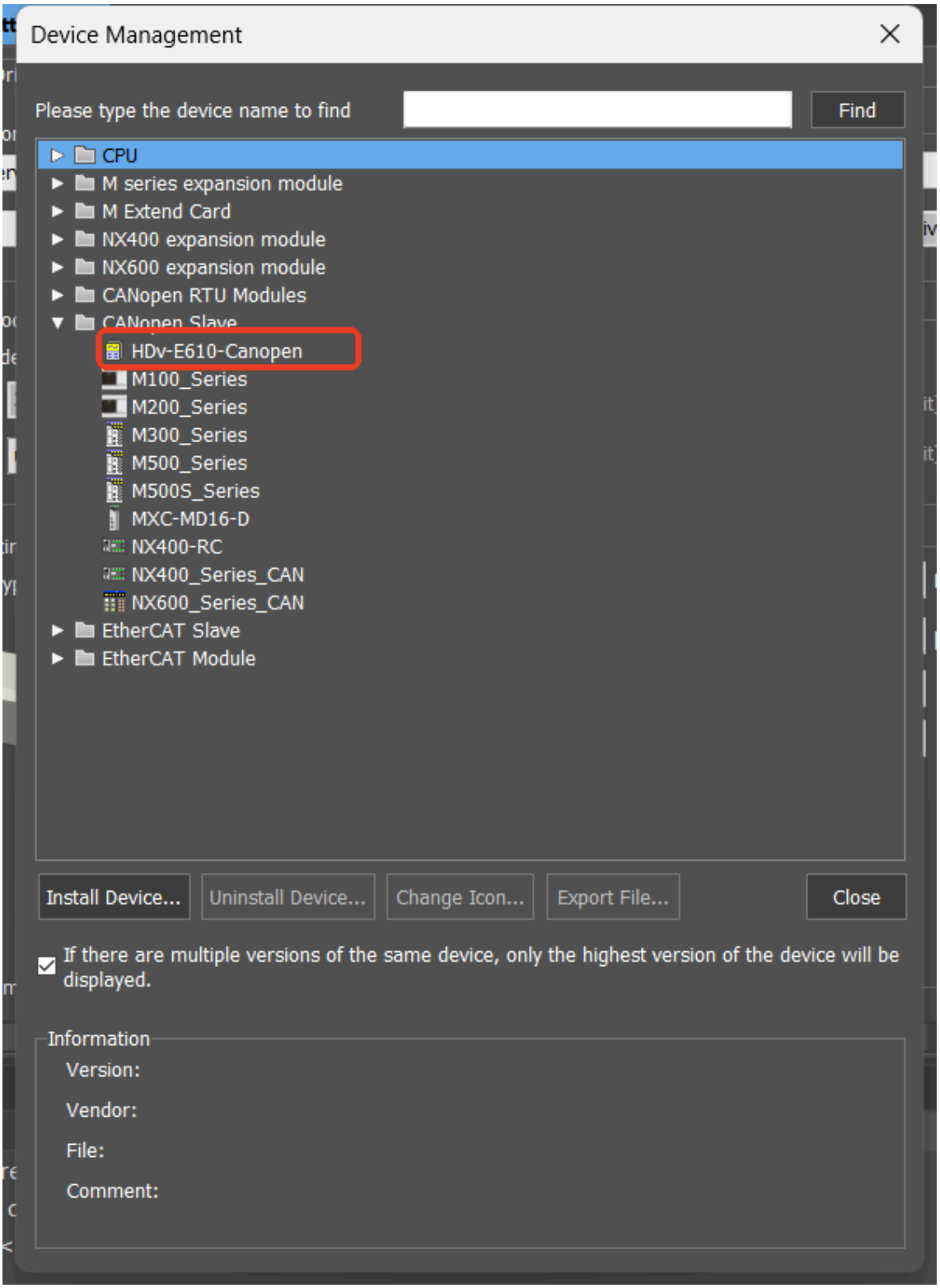
2. Select the files you need to add (CANopen EDS files or EtherCAT XML files)



3. Install the file



3. Then you can check the installed devices in the device list:


Device Management
Please type the device name to find
Find
CPU
M series expansion module
M Extend Card
NX400 expansion module
NX600 expansion module
CANopen RTU Modules
CANopen Slave
HDv-E610-Canopen
M100_Series
M200_Series
M300_Series
M500_Series
M500S_Series
MXC-MD16-D
NX400-RC
NX400_Series_CAN
NX600_Series_CAN
EtherCAT Slave
EtherCAT Module
Install Device...
Uninstall Device...
Change Icon...
Export File...
Close
If there are multiple versions of the same device, only the highest version of the device will be displayed.
Information
Version:
Vendor:
File:
Comment: