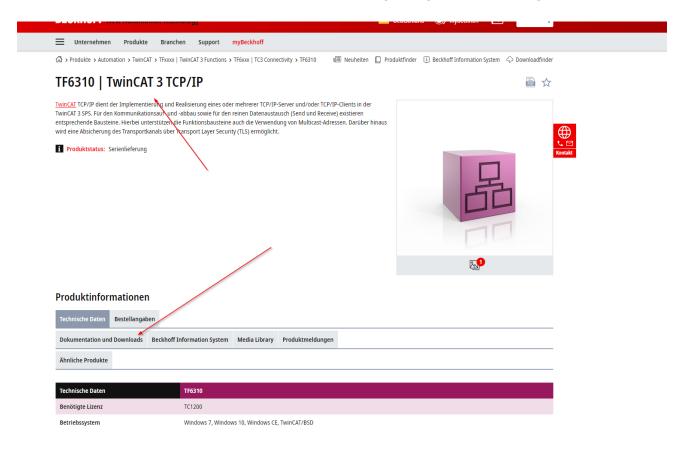
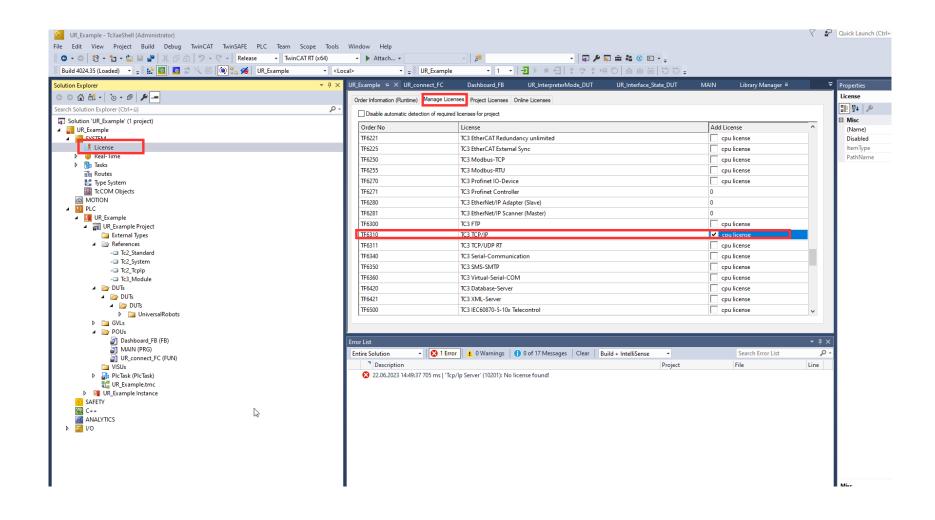
TF6310

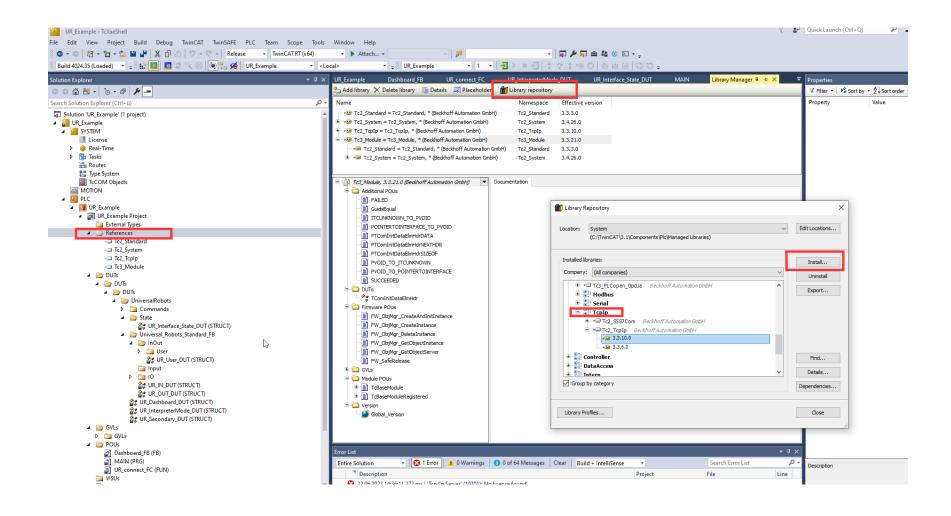
 Before Using the UR example you have to install for all socket communications the tcp/ip library



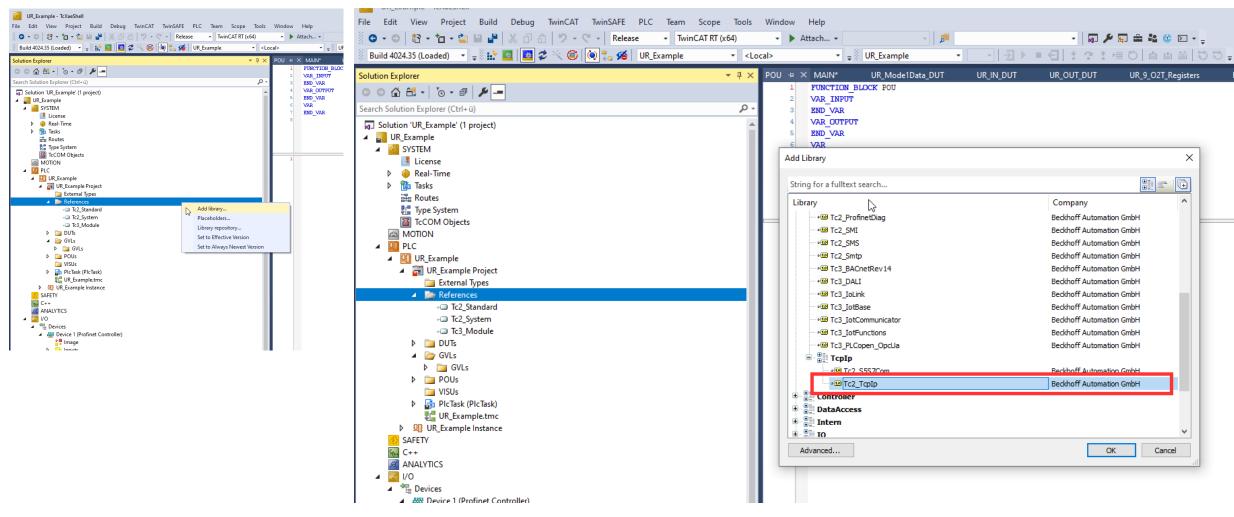
Get Trial license for if needed



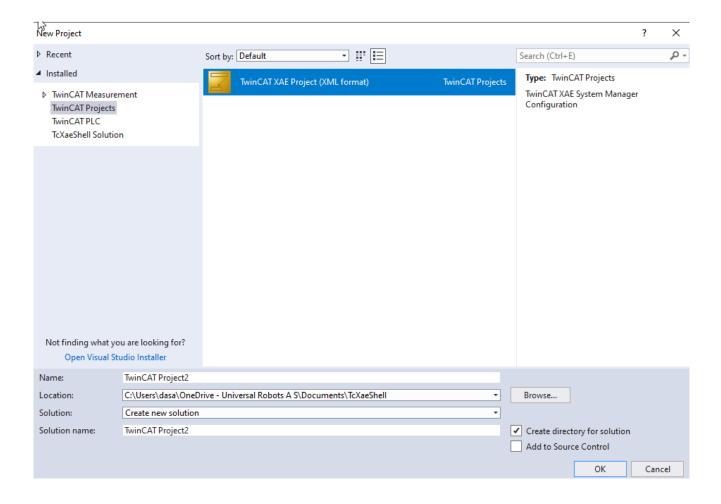
Install library Tc2_TcpIp (Communication)

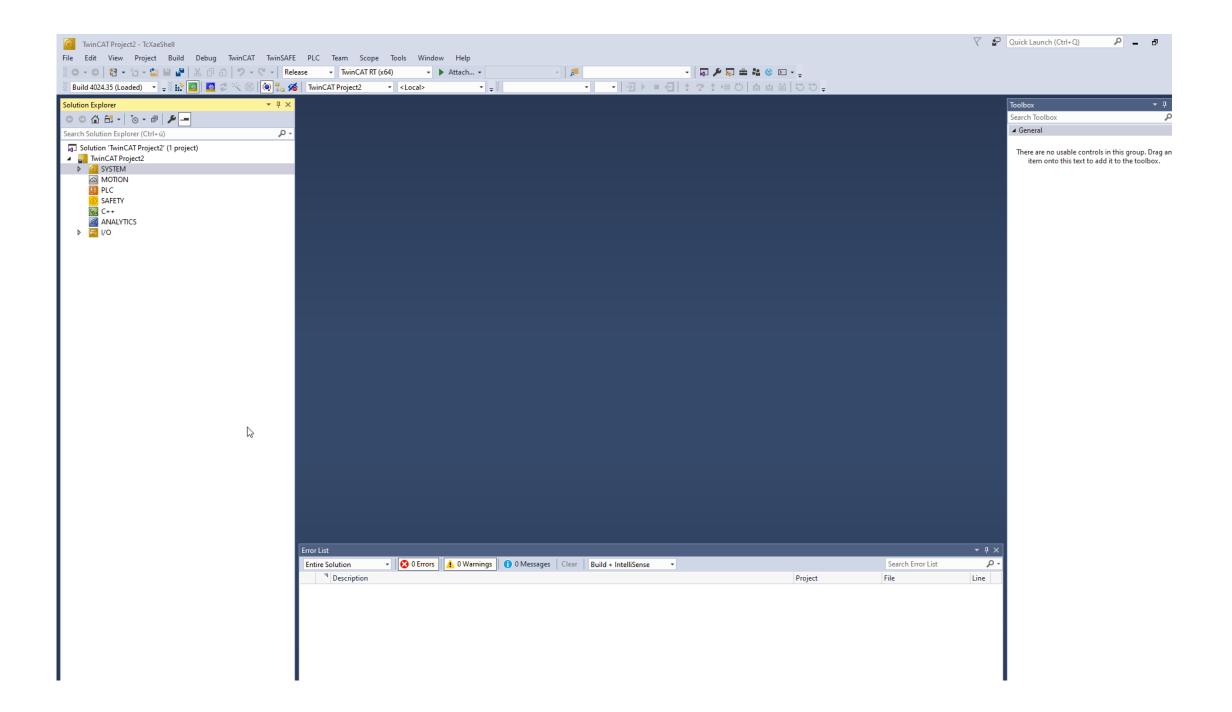


add Tc2_TcpIp (Communication) library it is necessary for all TCP communications



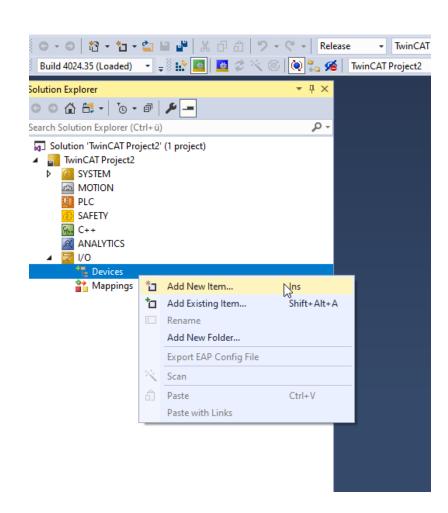
Create new project



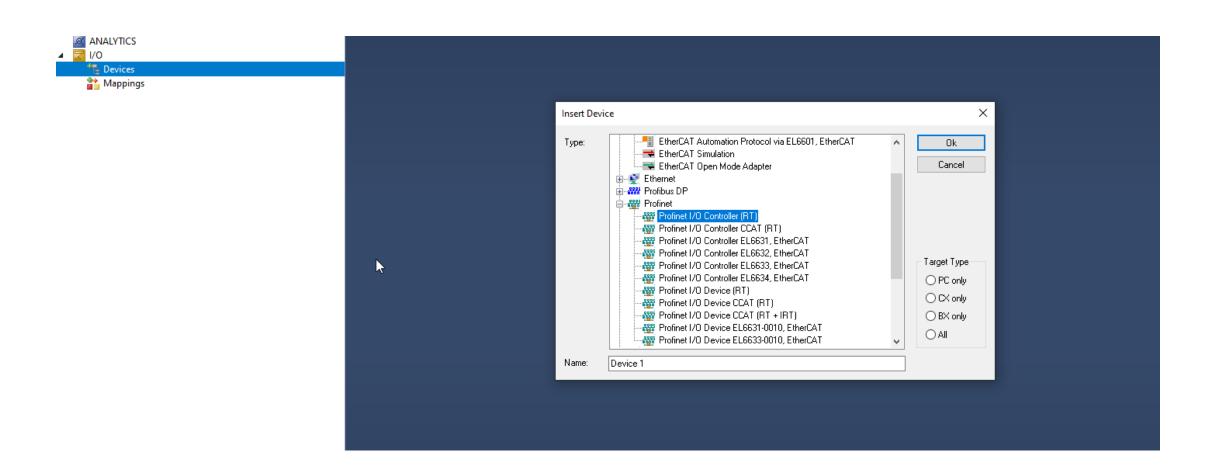


Config for profinet controller (RT)

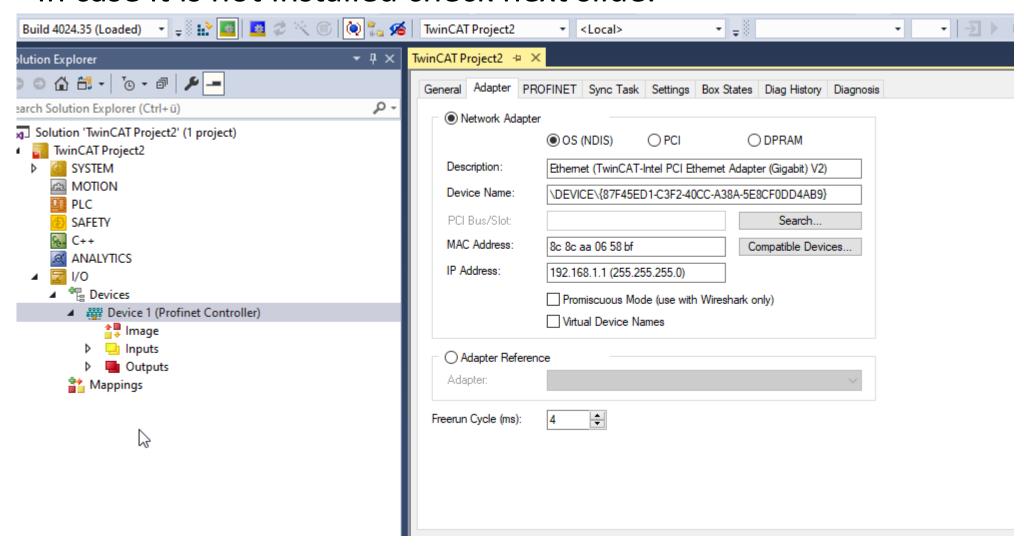
Add new item to devices



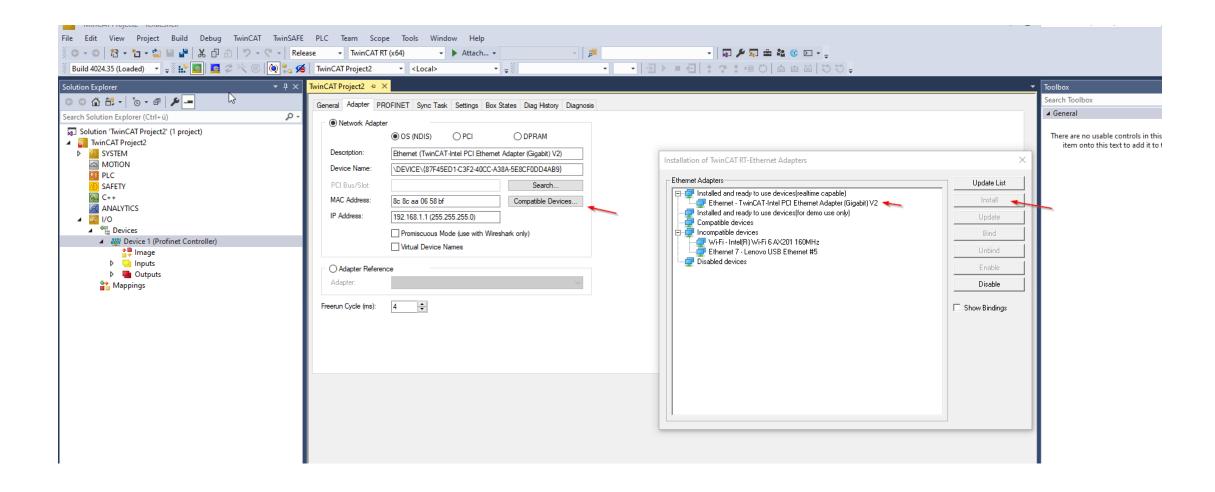
Add profinet IO controller RT



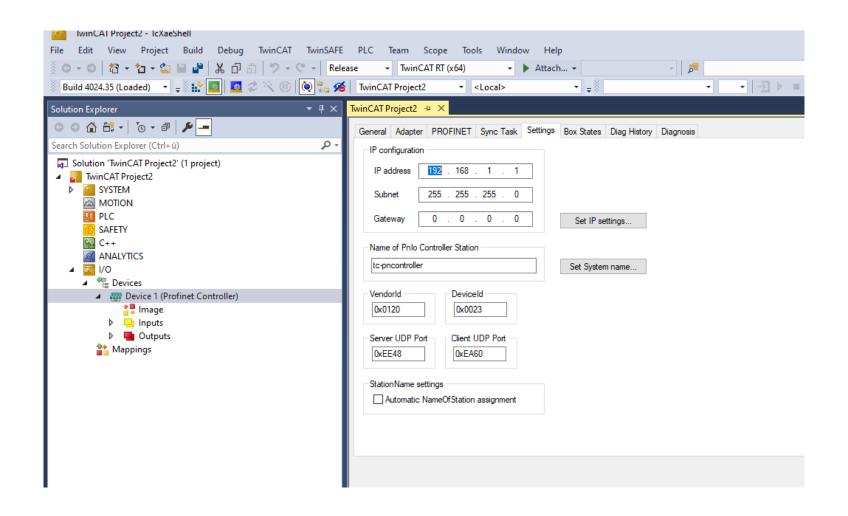
- If ethernet driver already installed choose your prefered ethernet slot (PLC/Laptop) and skip next slide
- In case it is not installed check next slide.



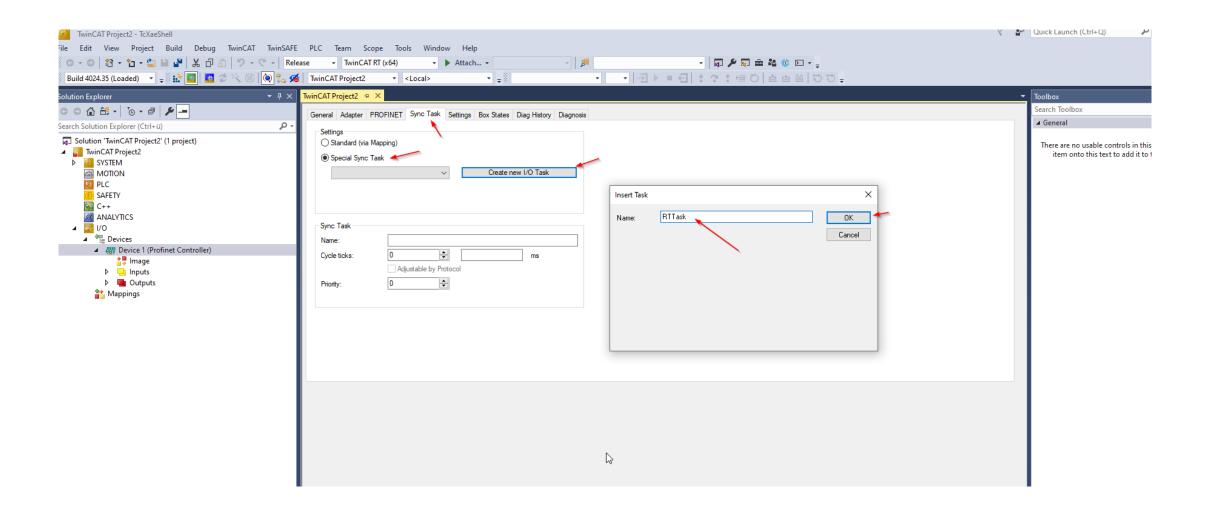
in case driver is not installed



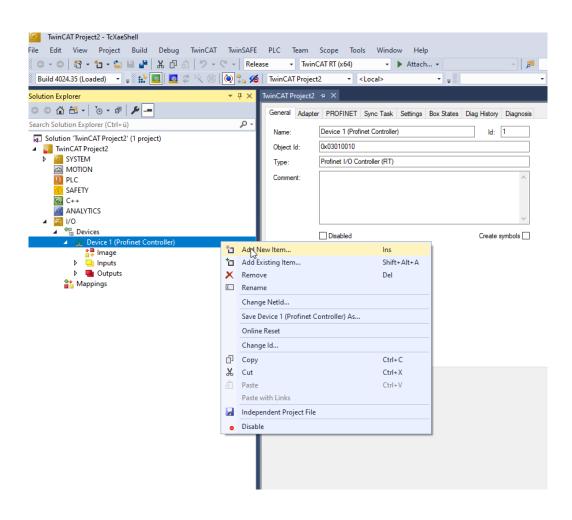
First setup ip configs of PN Controller

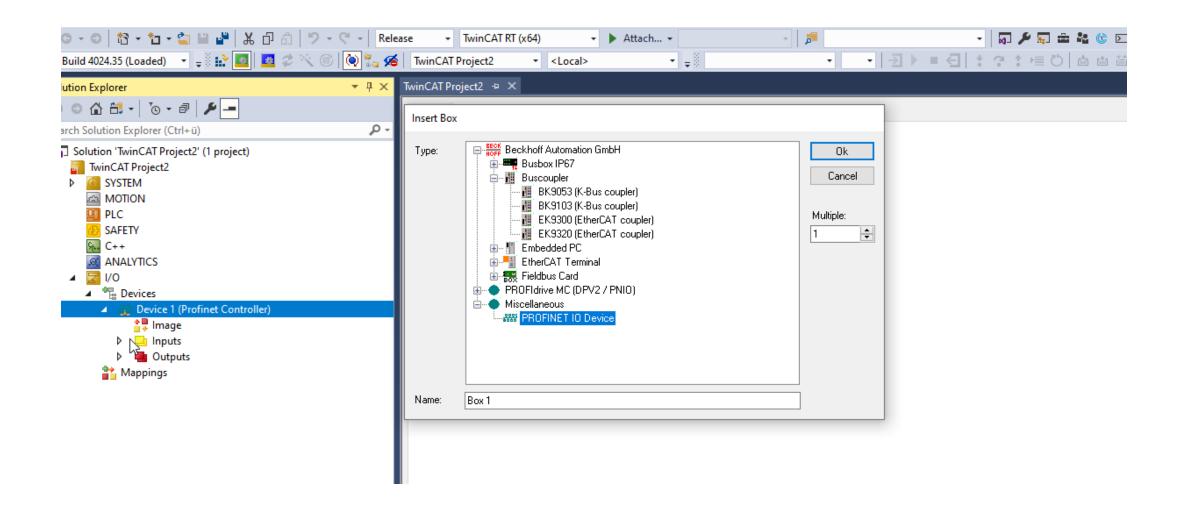


Create new task

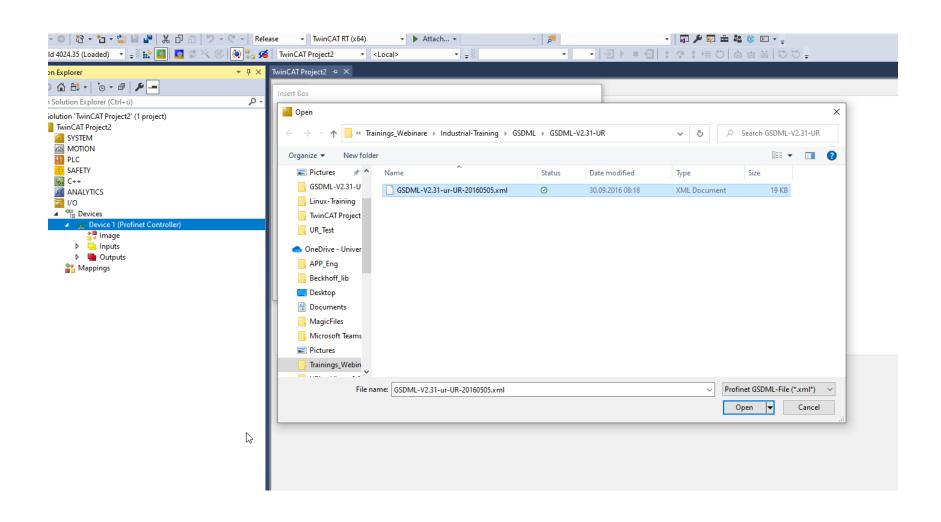


Add new IO Device (UR robot)

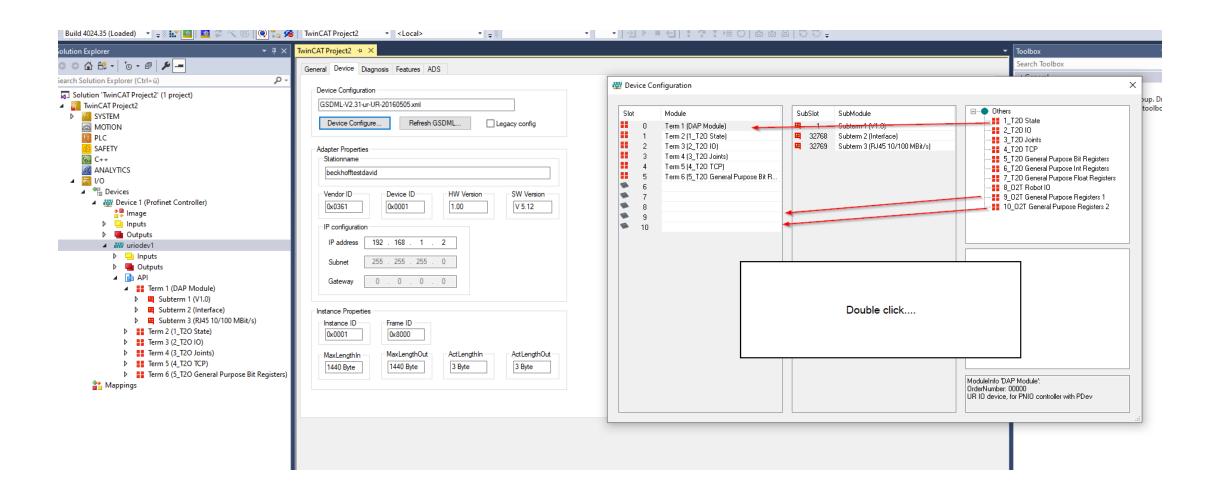




UR GSDML



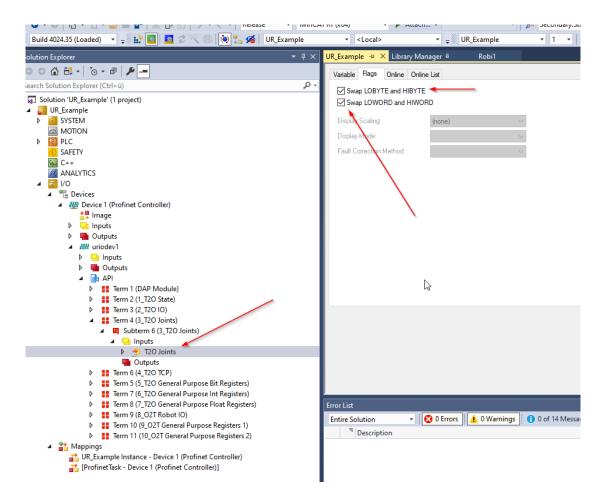
Device config. Choose all of them



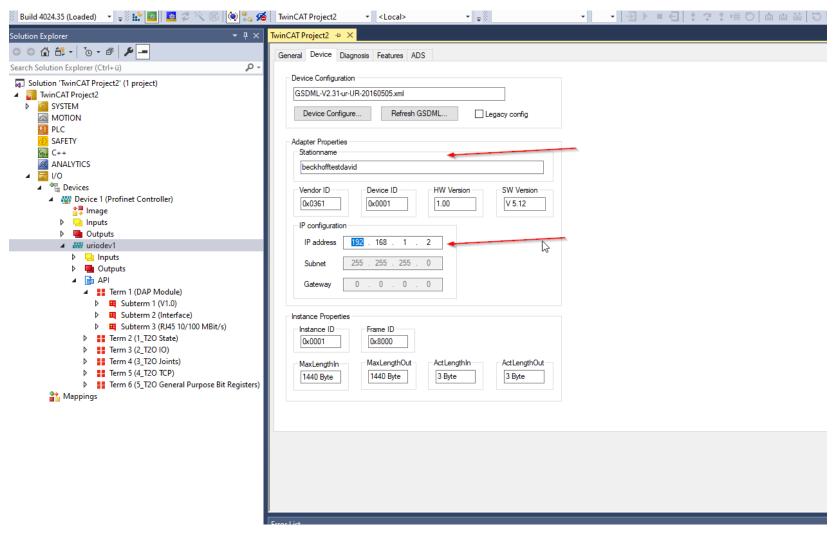
Due to the Intel standard some registers have to be swapped to the motorola standard

Please set byte swap and word swap for the following terms. Otherwise this example will not work properly:

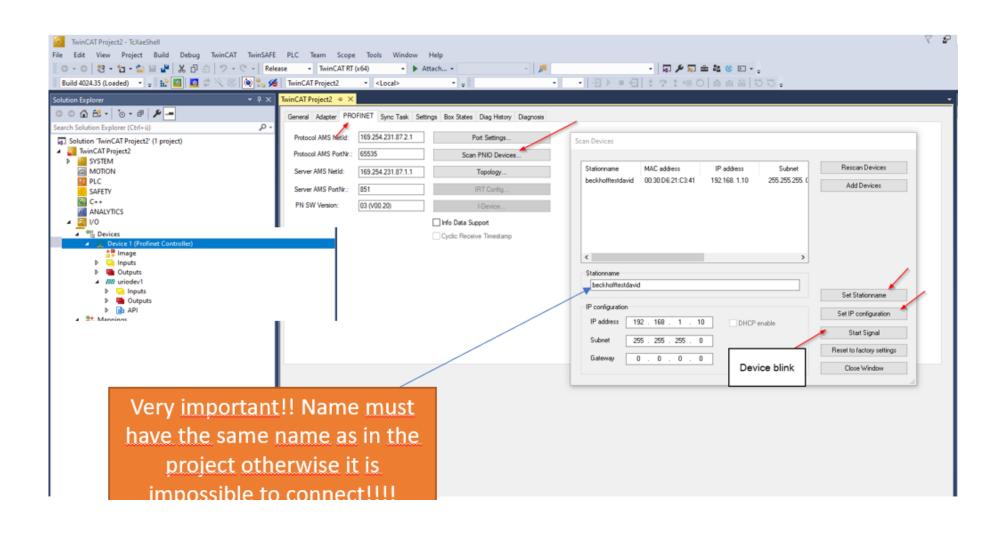
- Term 4 Joints
- Term 6 TCP
- Term 7 Int Registers
- Term 8 Float Registers



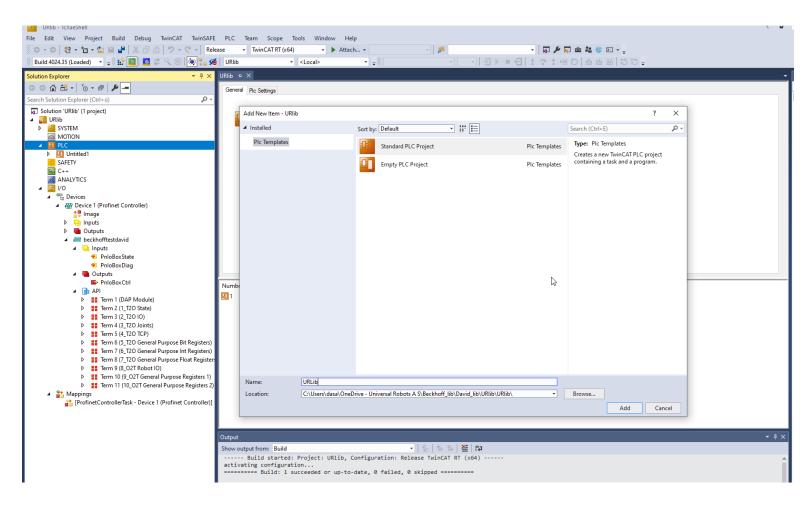
IP config and choose stationname



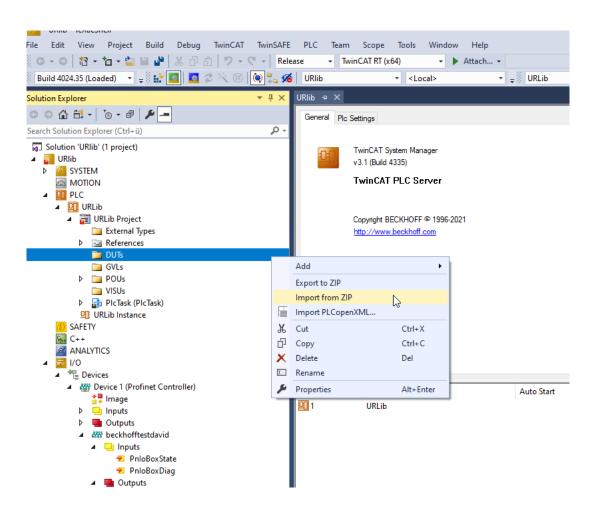
Search for your Robot and set configs



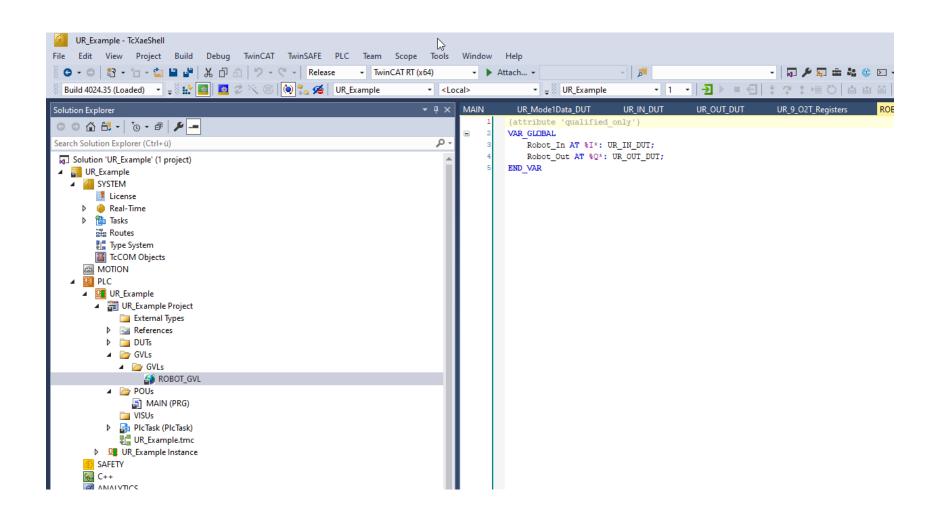
Right click on plc and create new standard project



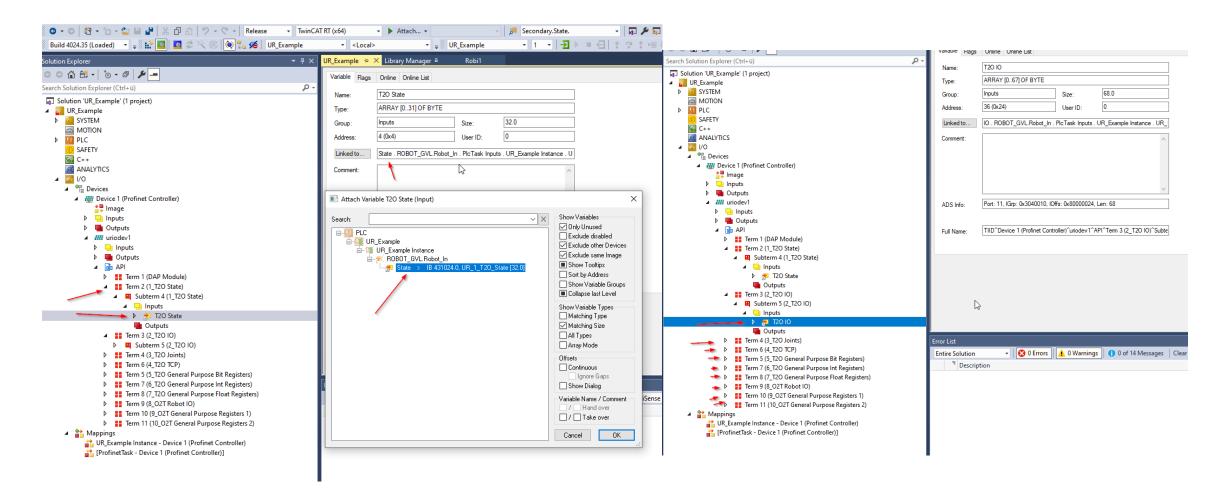
UDT / DUTS import



Create some variables for example in GVL



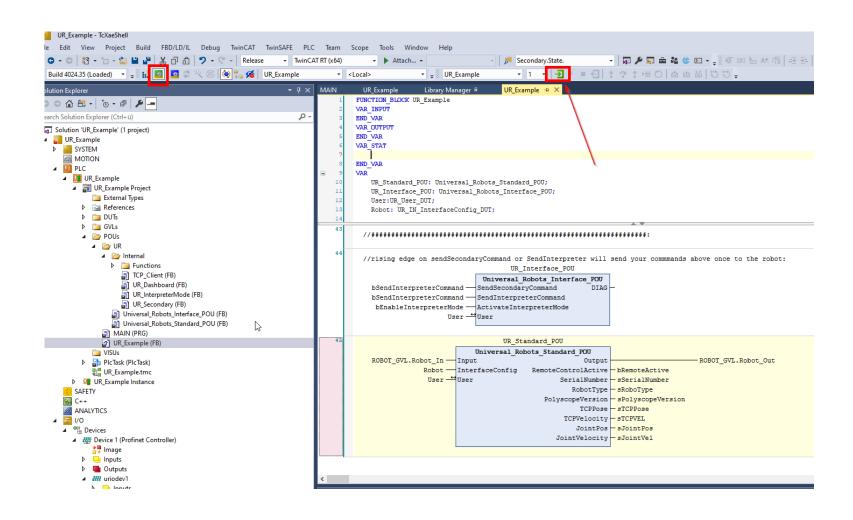
Map all robot API Terms



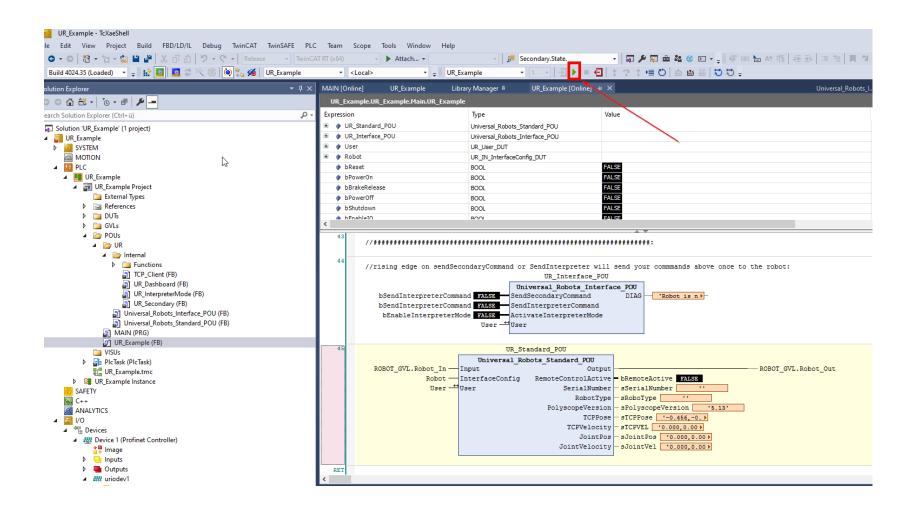
How to use UR-Example

- 1. Install TF6310 as shown in (0. TCP/IP Beckhoff info)
- 2. enable Profinet at your Robot
- 3. set robot to remote control
- 4. open the project
- 5. Set up IP configuration as showed in (2. Profinet Controller settings with UR)
- 6. start the project

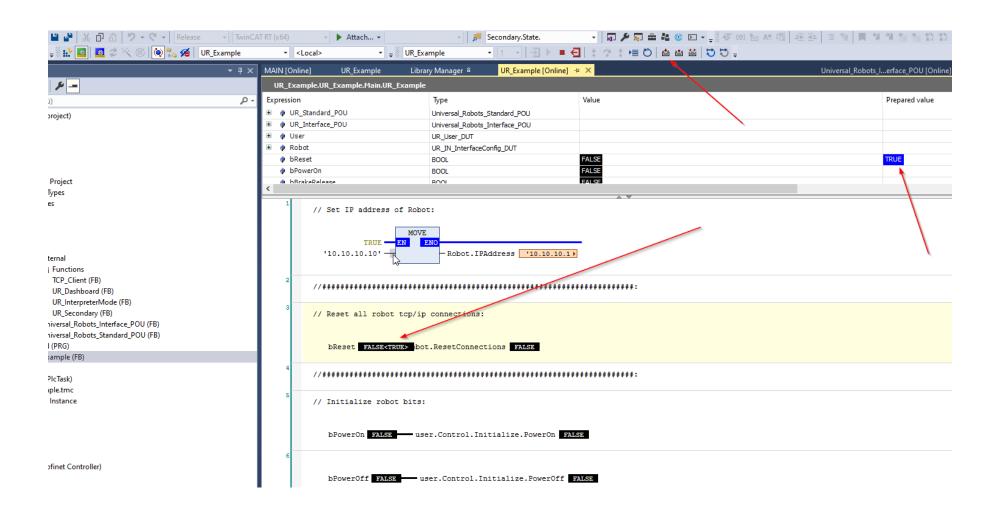
Start project



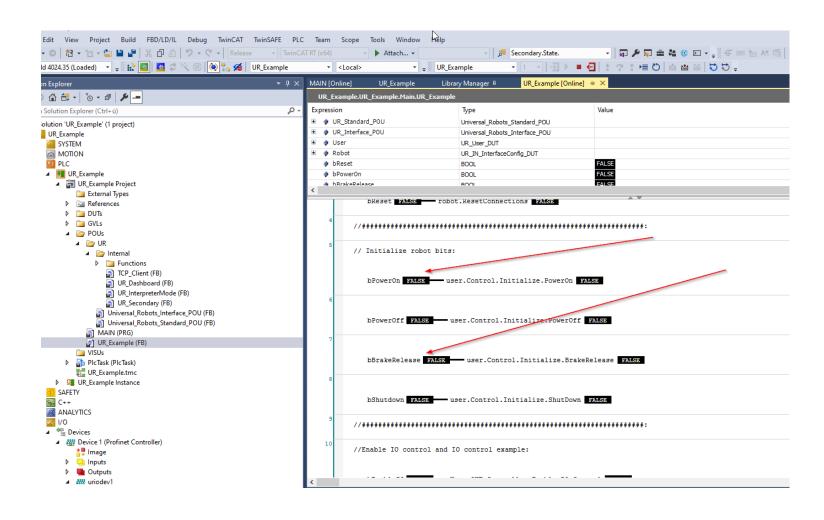
Start project



Reset all connections



Power on robot (only in remote control)



Connected and ready to use

