

If you do not already have CodeSys on your PC then go to the link below to create an account.

<https://us.store.codesys.com/customer/account/create/>

Sign in to your new CodeSys account and download CODESYS Development System V3. This download is about 1.3Gb.



## CODESYS Development System V3

Download 32 Bit

Download 64 Bit

The CODESYS Development System is the IEC 61131-3 programming tool for industrial control and automation technology, available in a 32-bit and a 64-bit version.

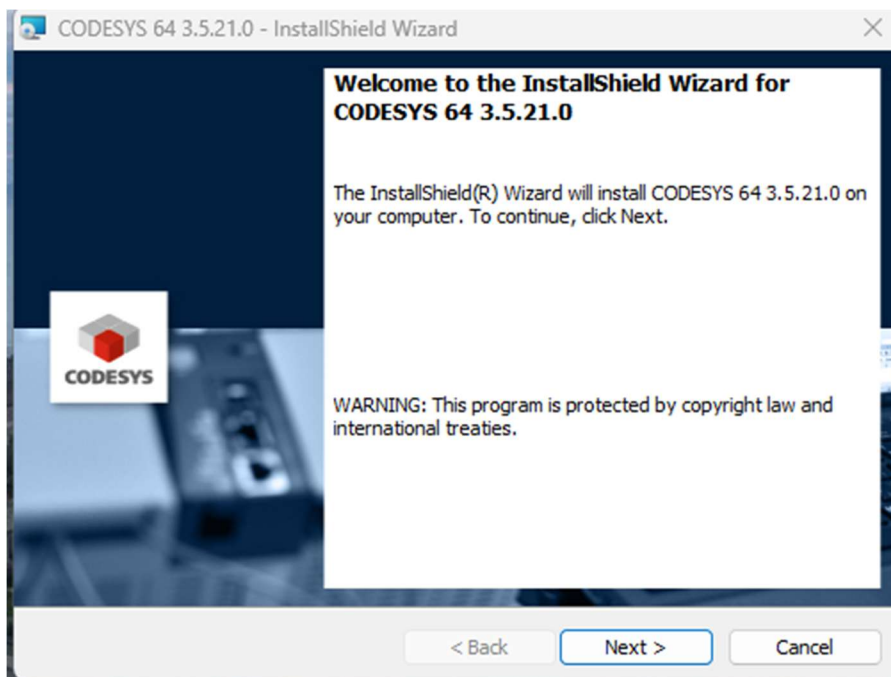
Details



Double Click Install File

If you are asked to install additional requirements, please follow the prompts to do so.

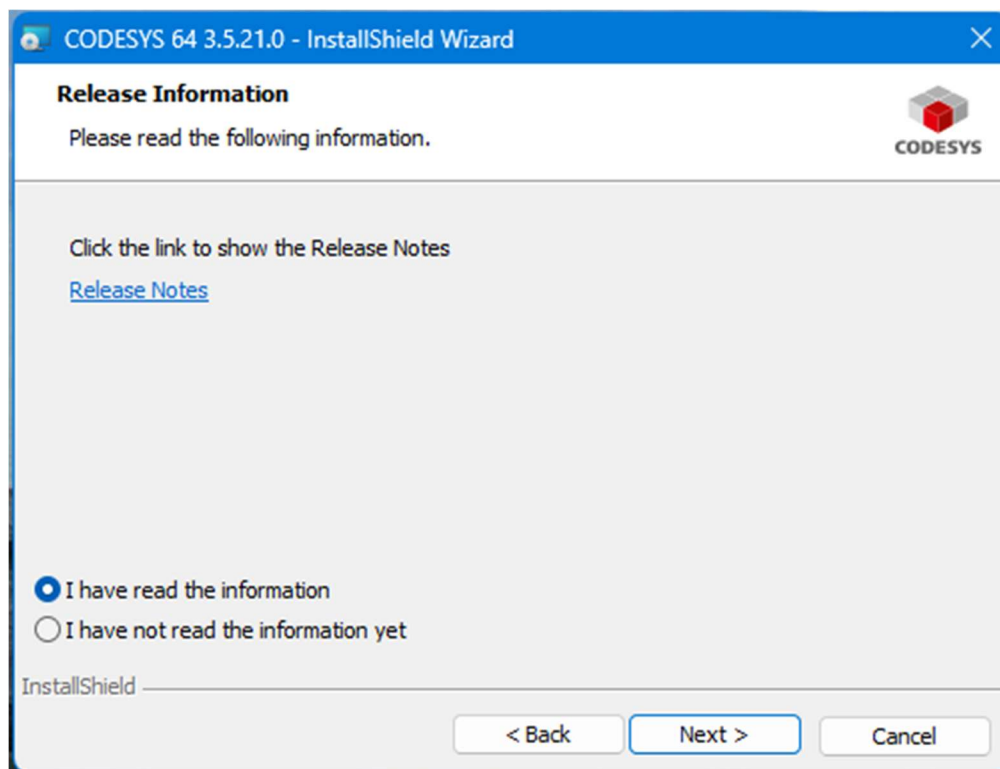
This is the Codesys installer – Click Next



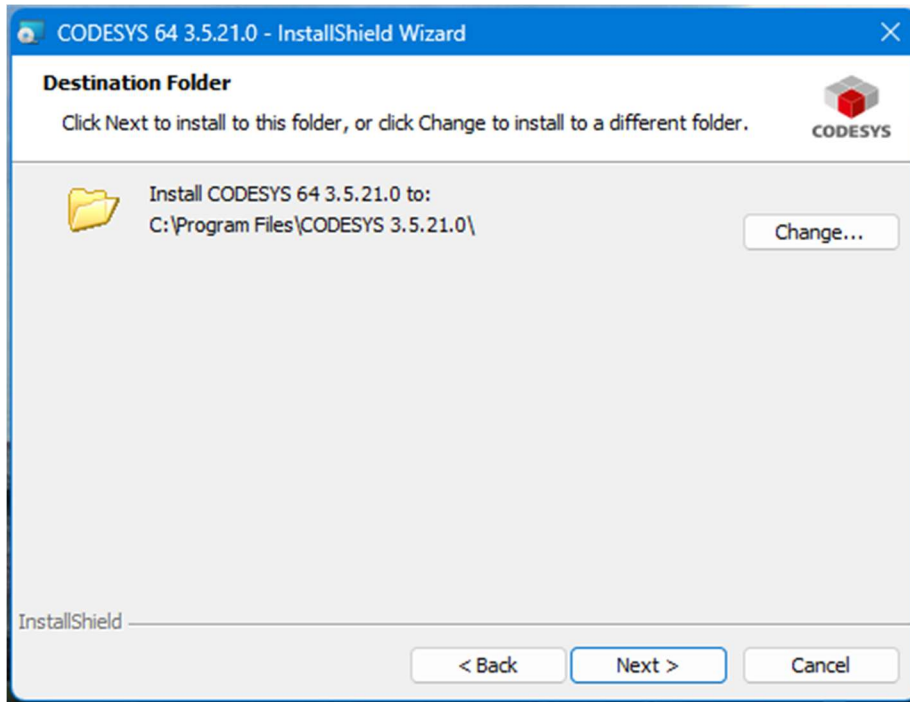
Select "I accept the Terms in the License Agreement" and Click Next



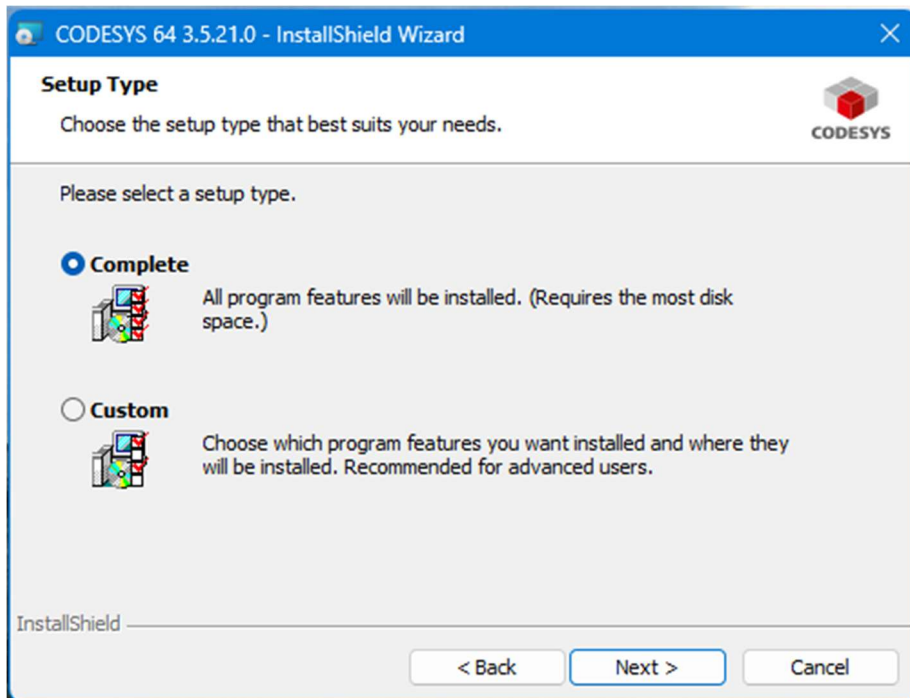
Select "I have read the information" and Click Next



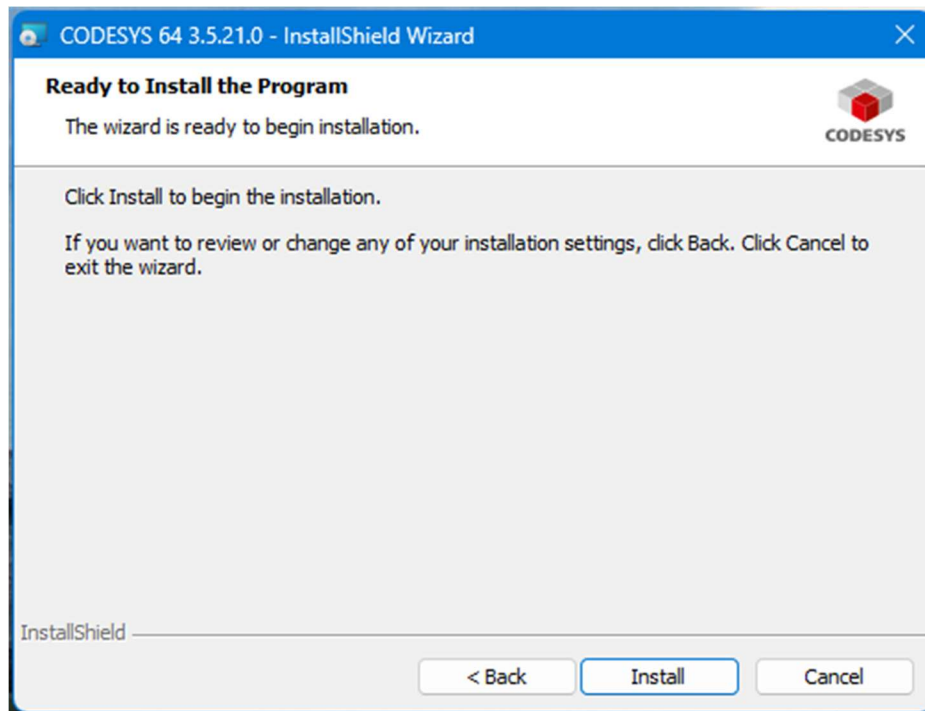
If you want to change the location for the download, do so now or Click Next to install to the default location.



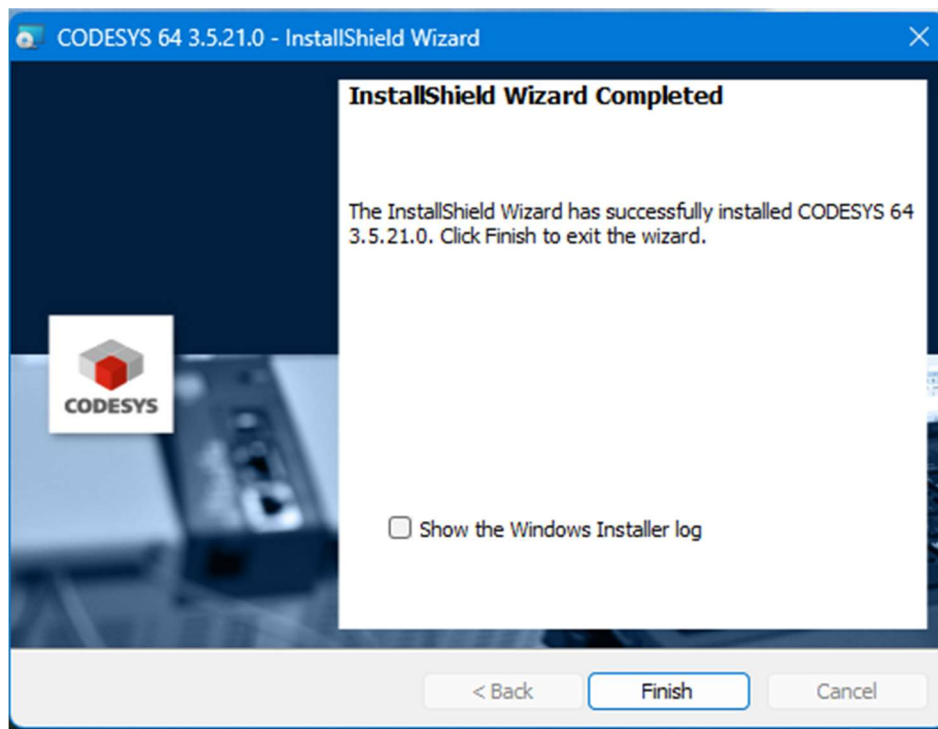
Select Complete and Click Next



Ready for Installation. Click Install



Once everything is finished (takes some time) you will see this screen. Click Finish.

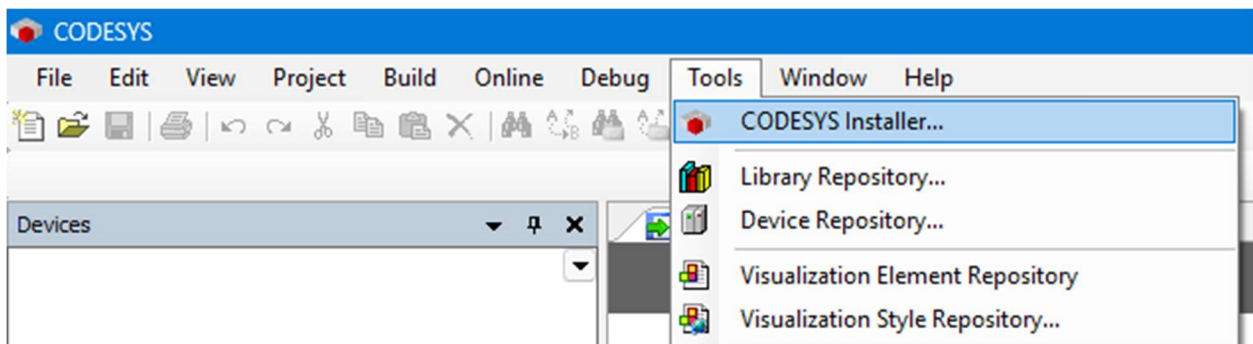




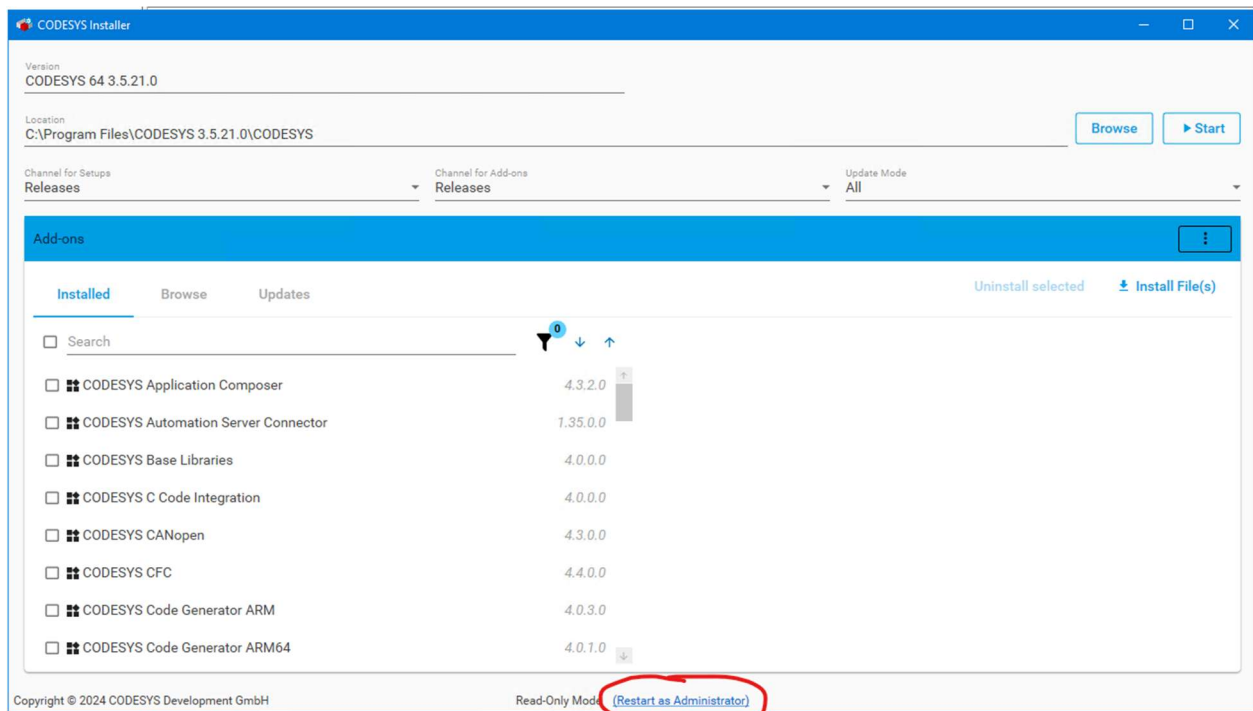
Open the Codesys Software

We want to install any available updates at this time.

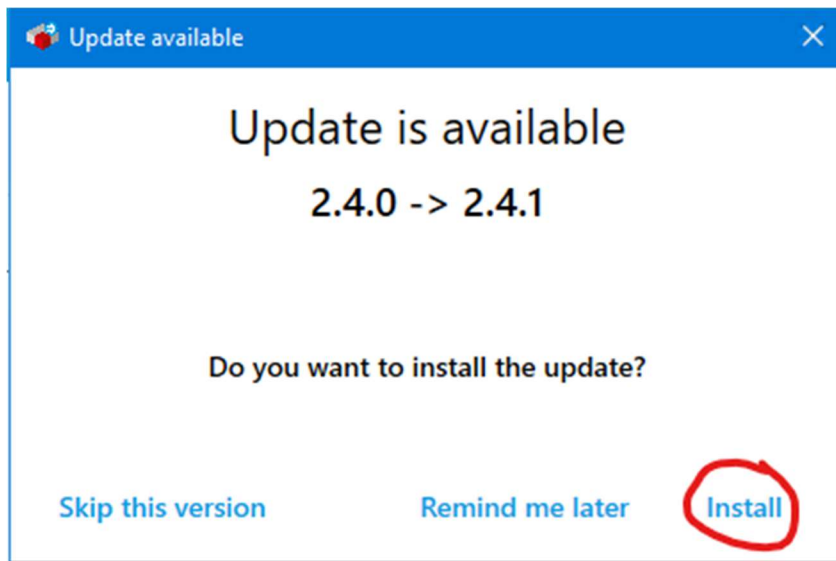
Click on Tools->CODESYS Installer



If the Installer tells you there is an update and to Restart as Administrator, on the bottom of the Installer Window, Click (Restart as Administrator).

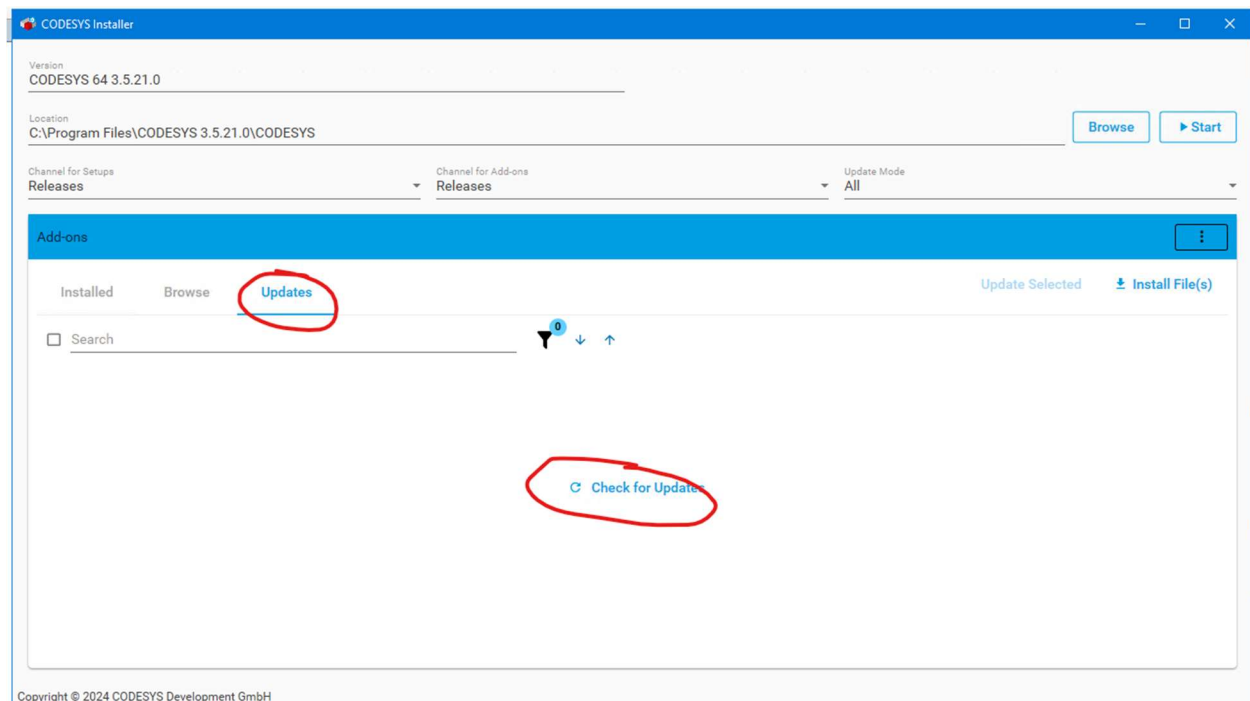


This will reopen the Installer. Follow any instructions on updating the software.

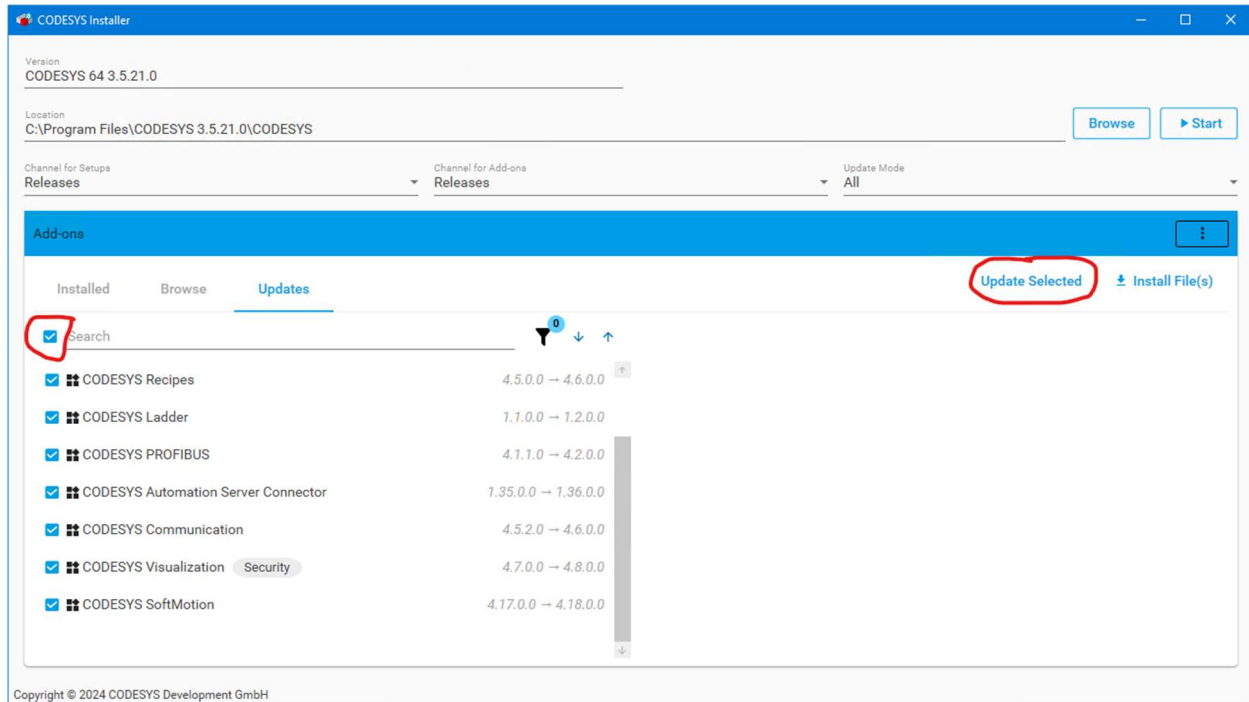


This update took a very long time to complete. Once complete follow the prompts to reopen the software.

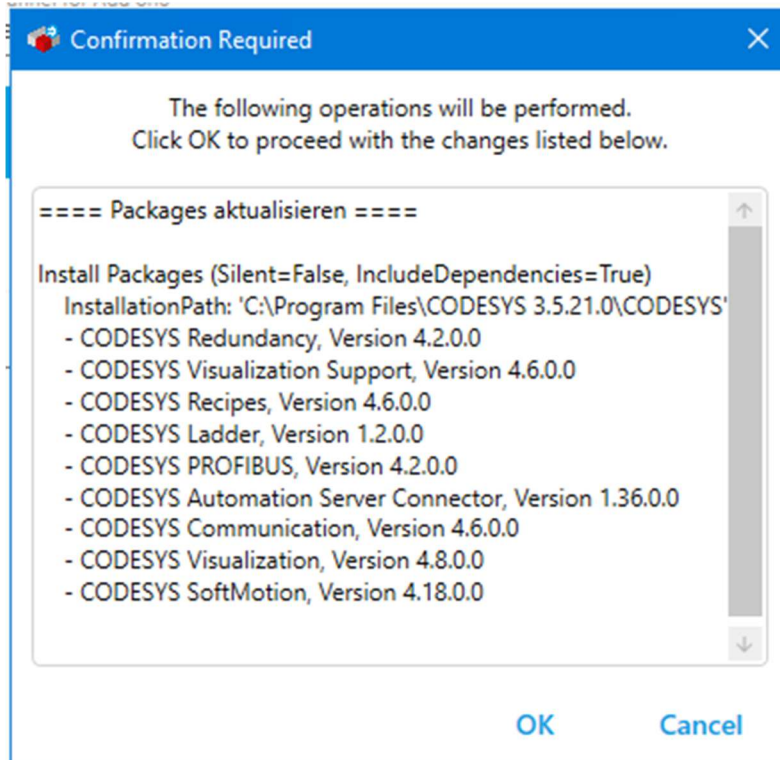
Now we need to check for Add-on Updates. Reopen the Installer in Admin Mode again, Click on Updates, then Click on Check for Updates



When the list of updates populates, Select All boxes and Click on Update Selected



A Confirmation Required box pops up, Click OK



Follow any prompts to install the updates. Once complete close the installer.

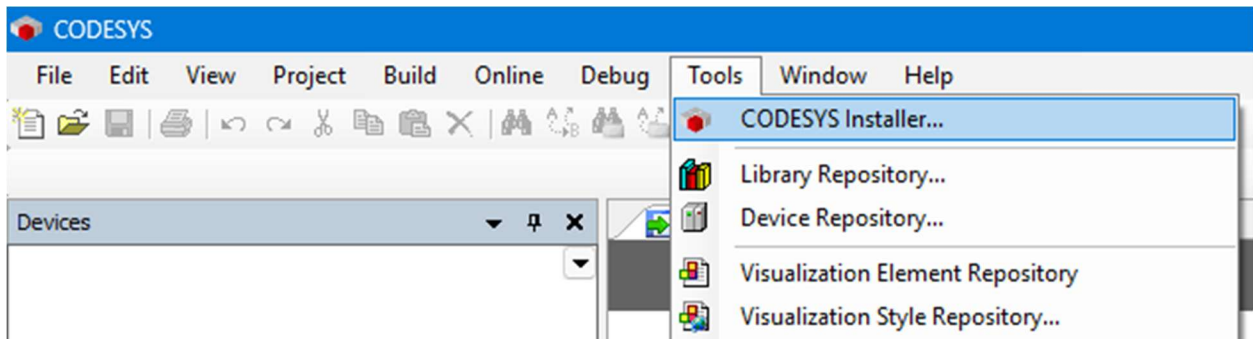


Now we are ready to install the AK840M Package file which contains the .xml Files for the AK840M. We need to open the Installer again. To download the files, click on this link:

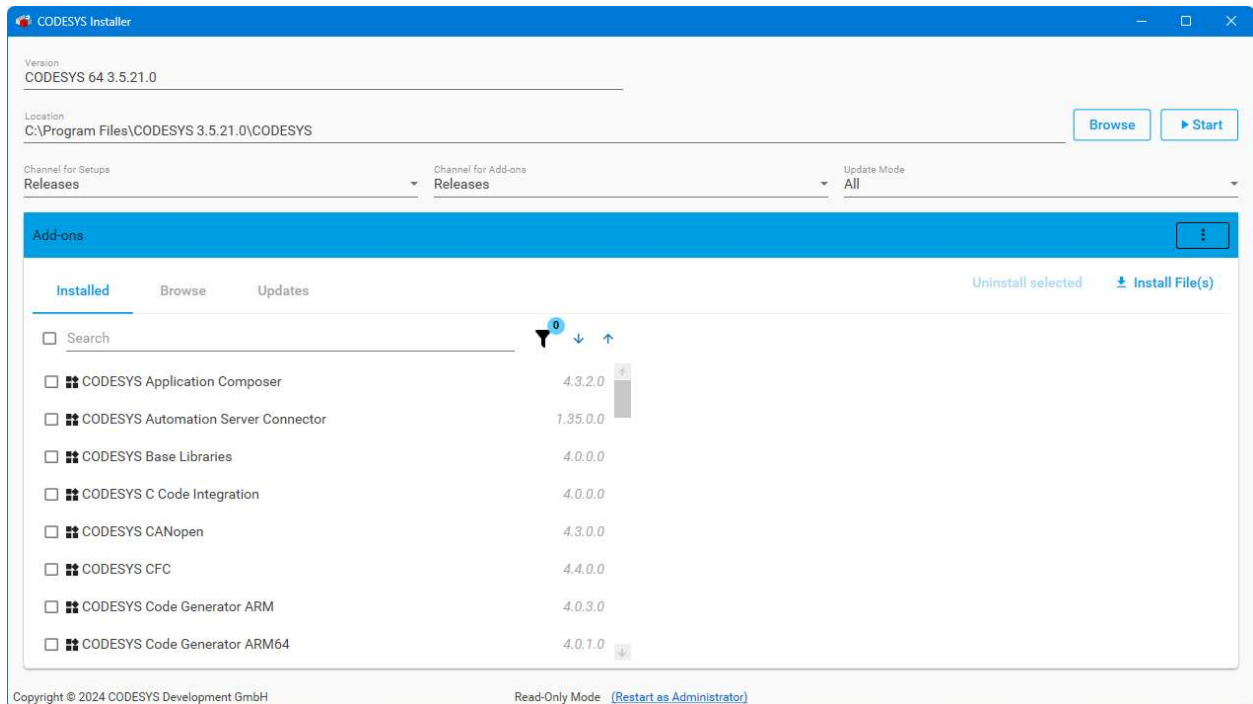
[https://anaheimautomation.com/media/anaheim/files/software/Kinco\\_Ethercat\\_XML.zip](https://anaheimautomation.com/media/anaheim/files/software/Kinco_Ethercat_XML.zip)

Reopen the Codesys Software

Click on Tools->CODESYS Installer

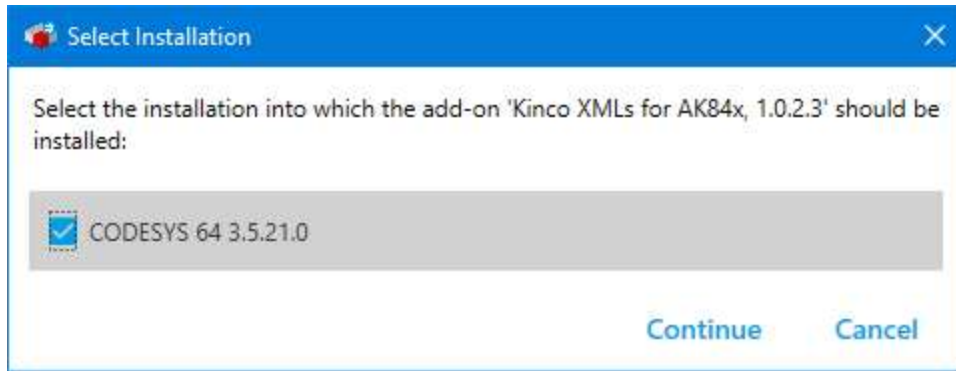


Select Browse and find the “Kinco XMLs for AK84x 1.0.2.3 250210.package” file

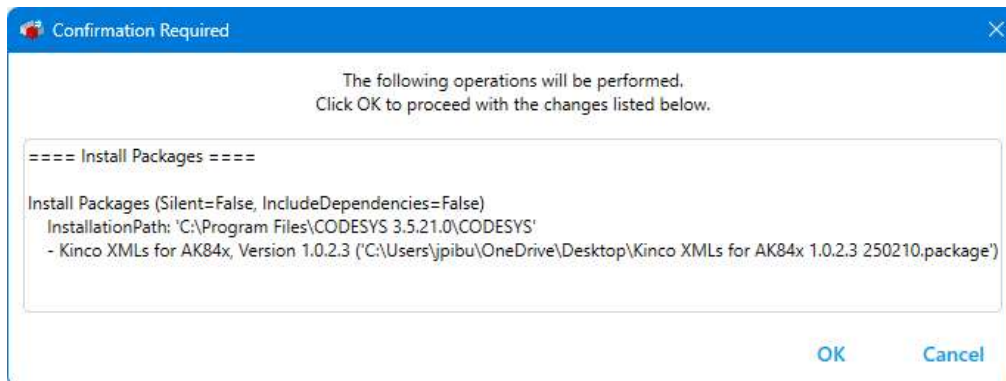


Select the Installation and click Continue

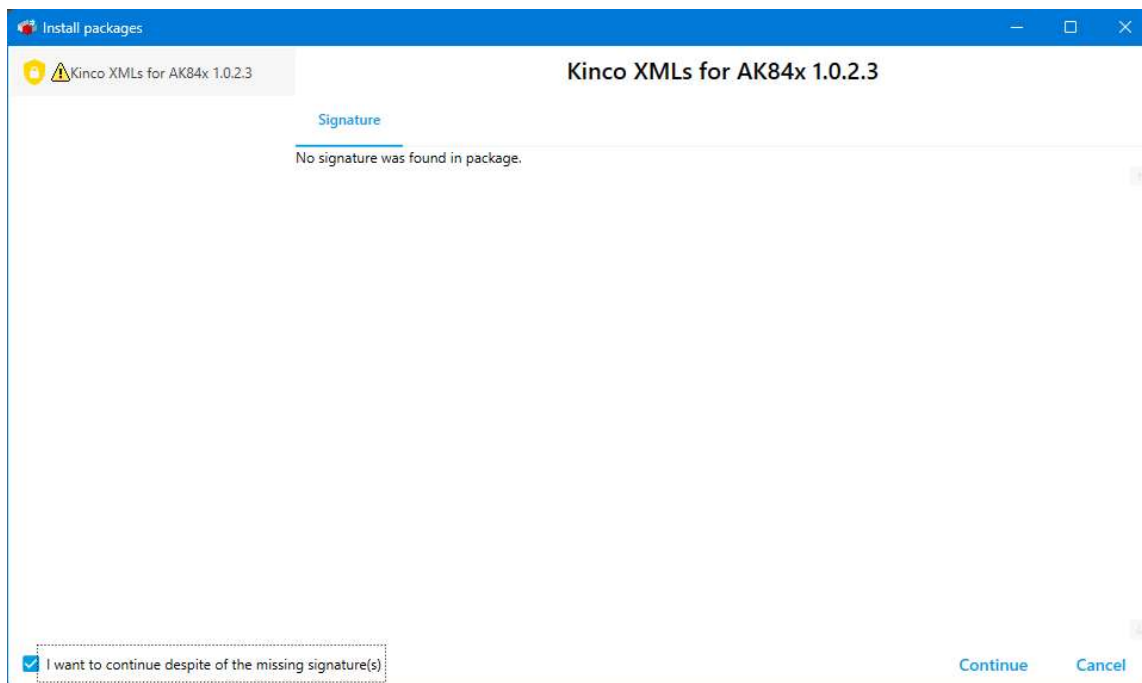




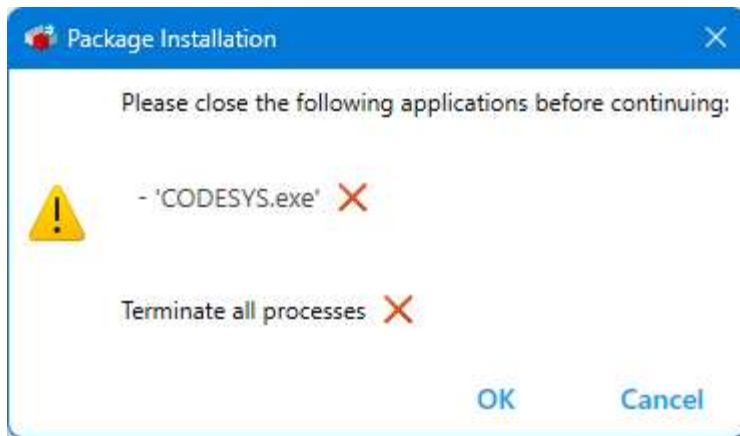
Click OK on Confirmation Required



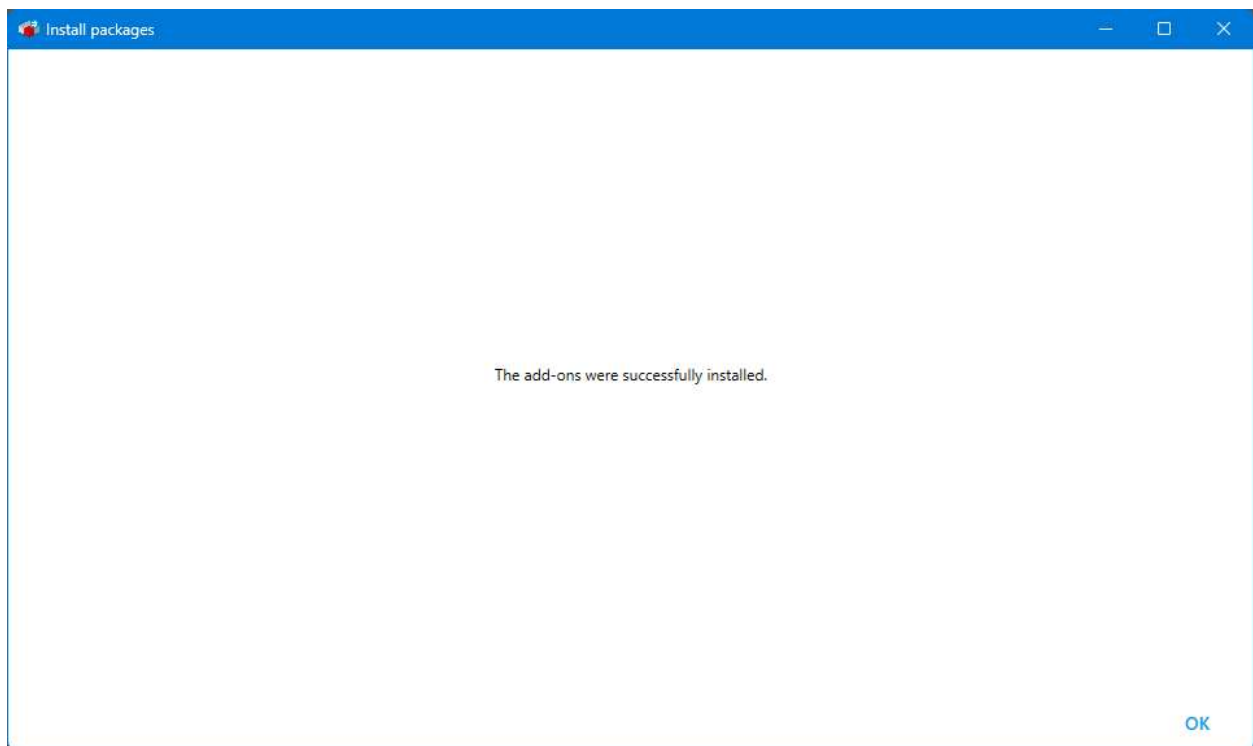
Check the "I want to continue despite the missing signature(s)" and click Continue



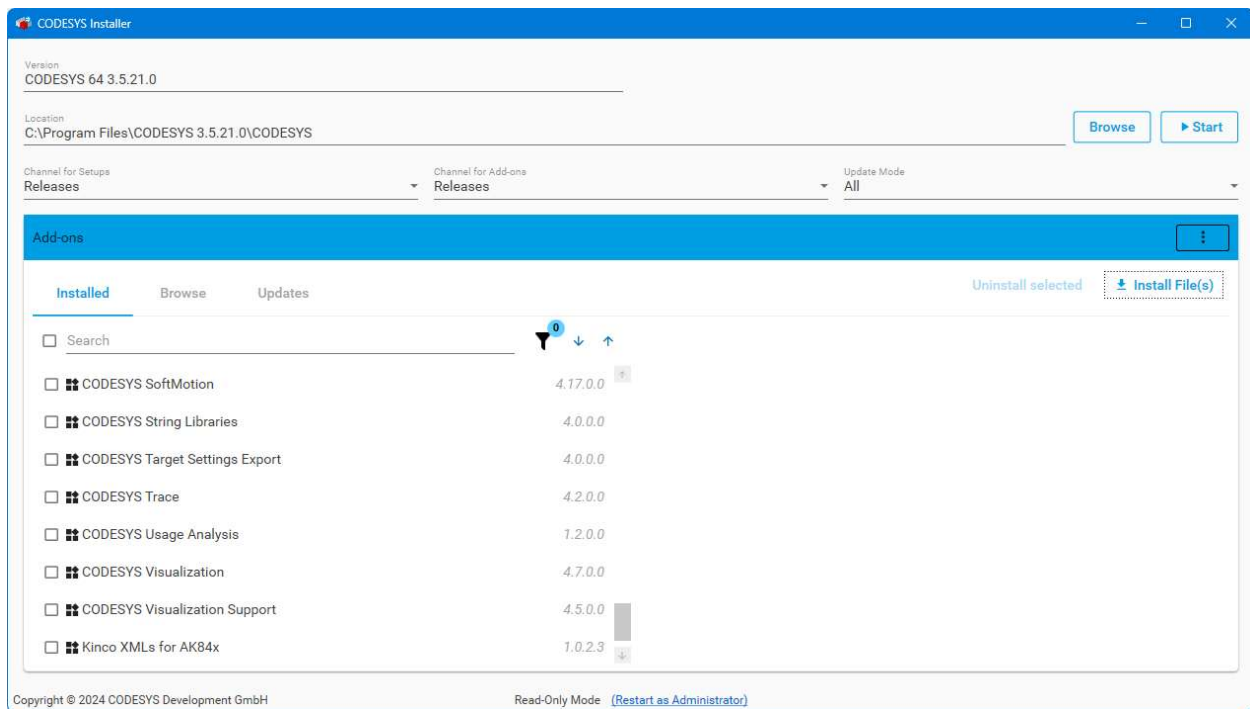
Close Codesys (The install will start without having to click OK here)



When finished Click OK, then close the installer



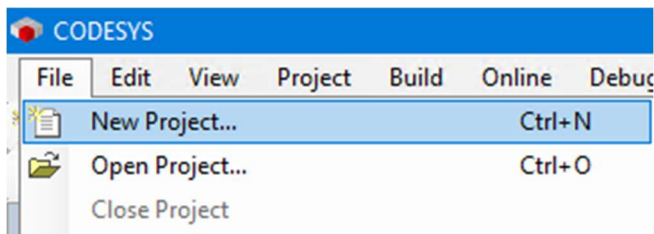
Reopen Codesys and the Installer. Verify at the bottom of the Add-ons Installed list, Kinco XMLs for AK84x (ver 1.0.2.3) is listed. Close the Installer



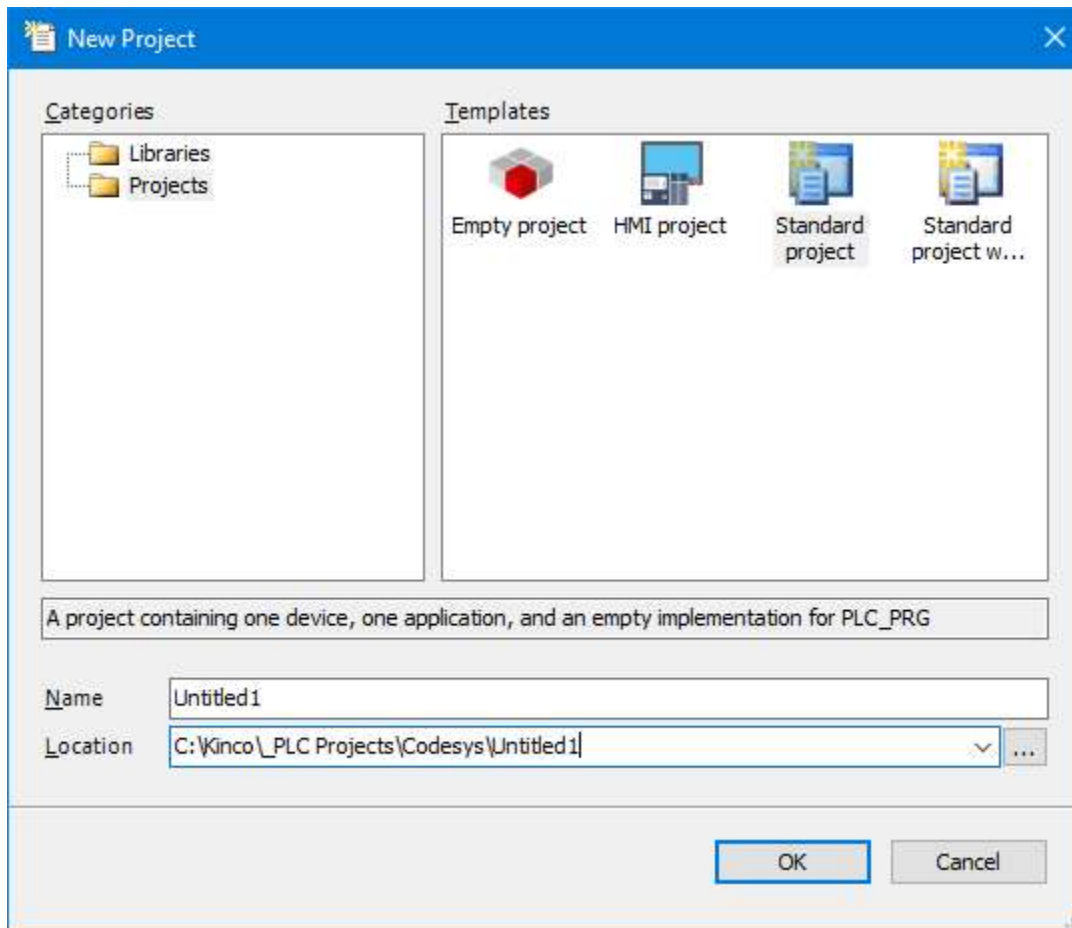
One last update is the library update after you create your first project.

Create a new Project

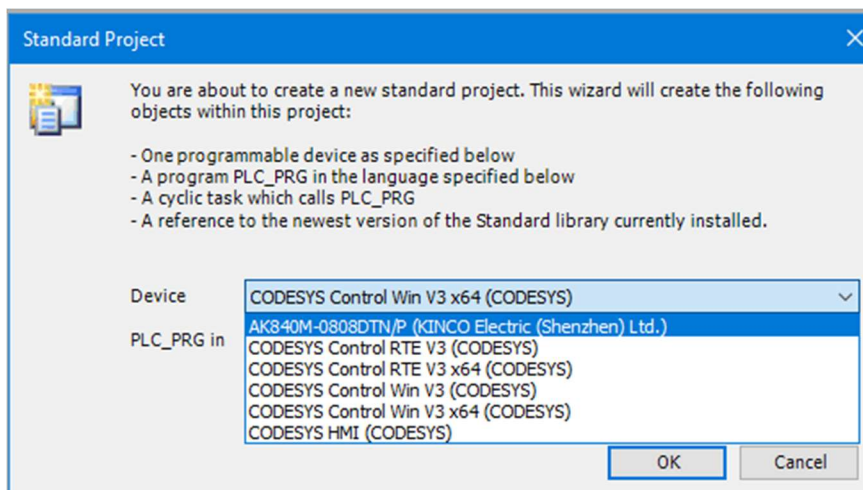
File->New Project...



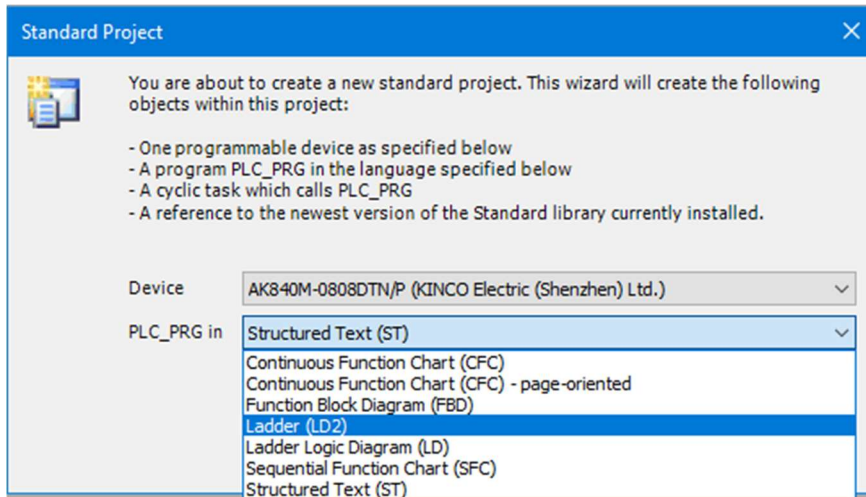
Click on Standard project, give your project a name and location. Click OK



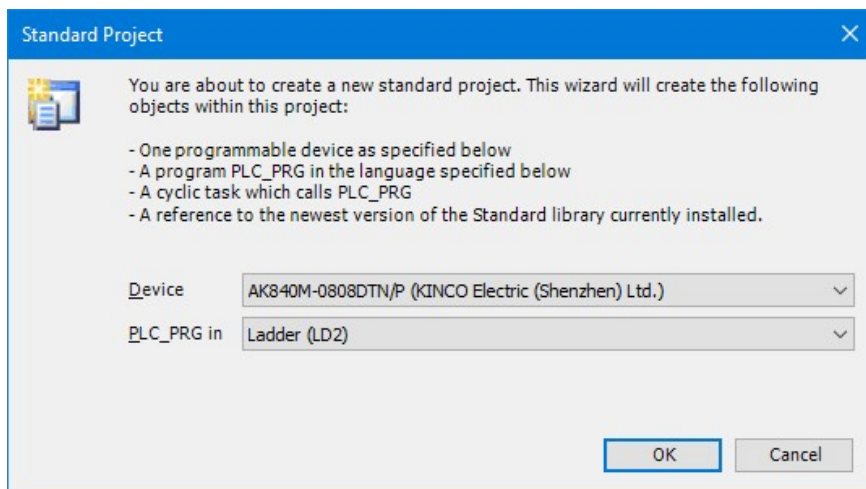
The Standad Project Box will pop up, Select the AK840M-0808DTN/P in the Device drop down list.



Select the PLC-PRG in Code of your choice. I am choosing Ladder (LD2)

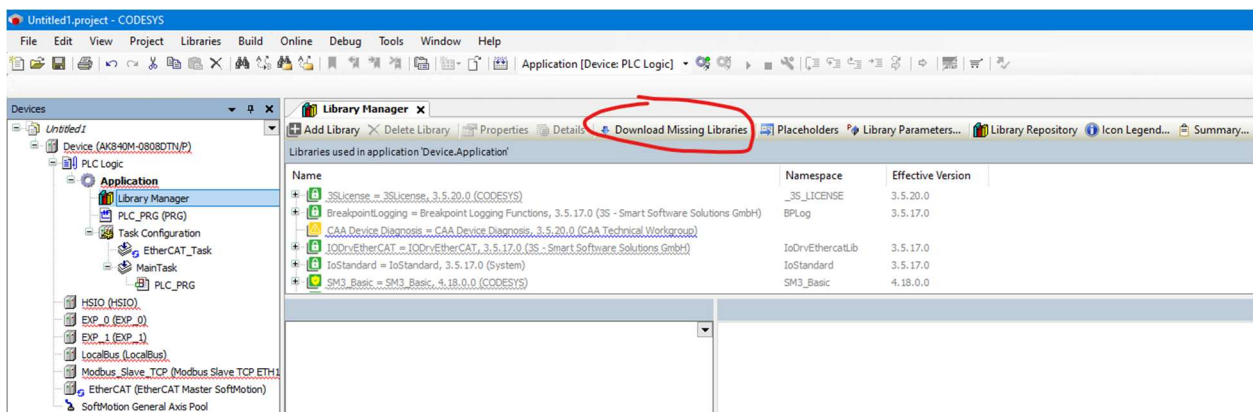


Select OK to start the project



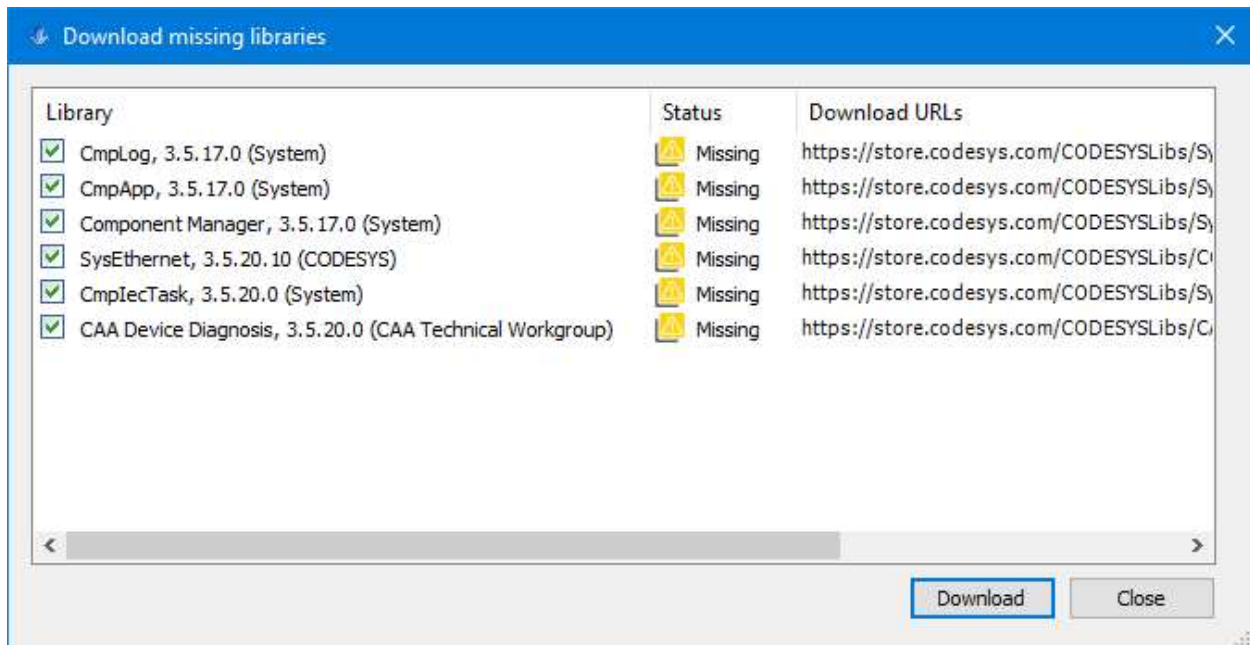
Double Click the Library Manager

Click on "Download Missing Libraries"

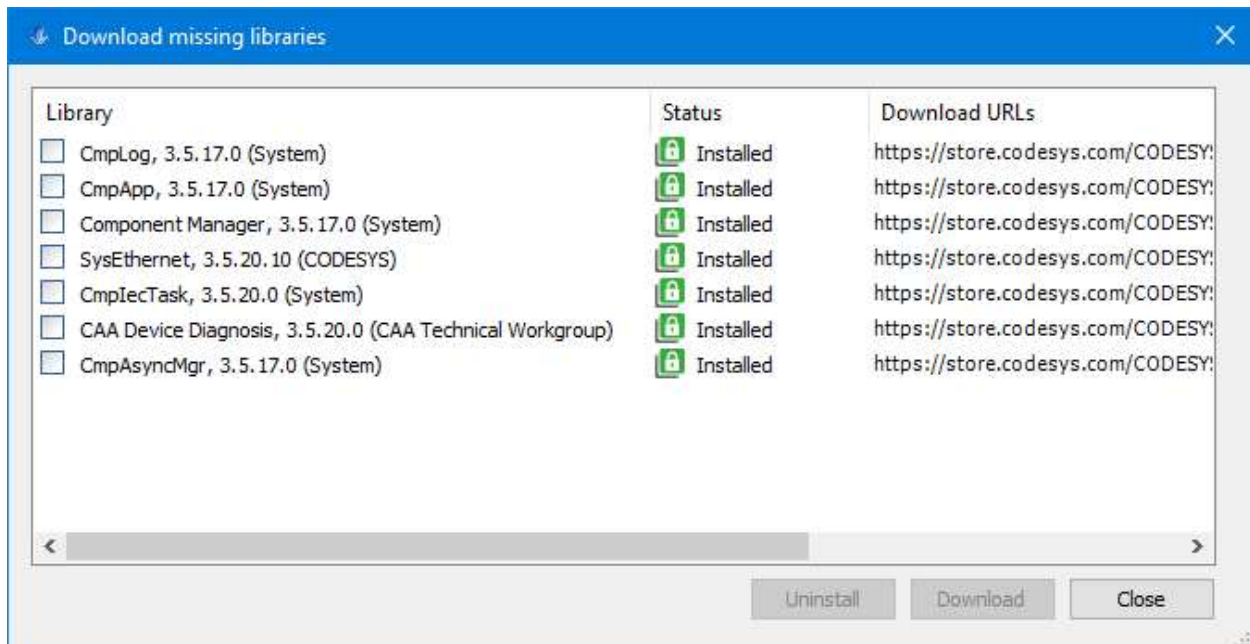


It will list the libraries that need to be updated with a check box.

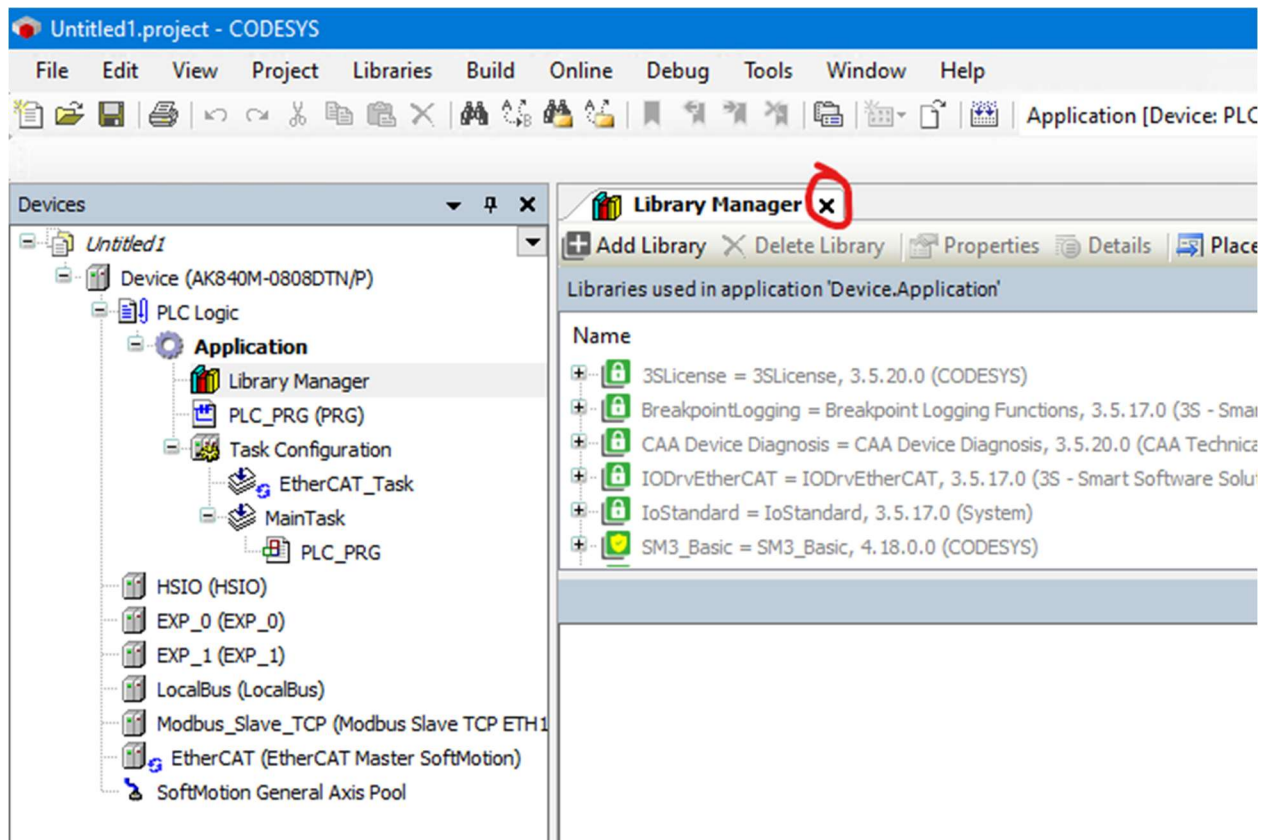
Click Download. This will install the missing components.



When finished, click Closed



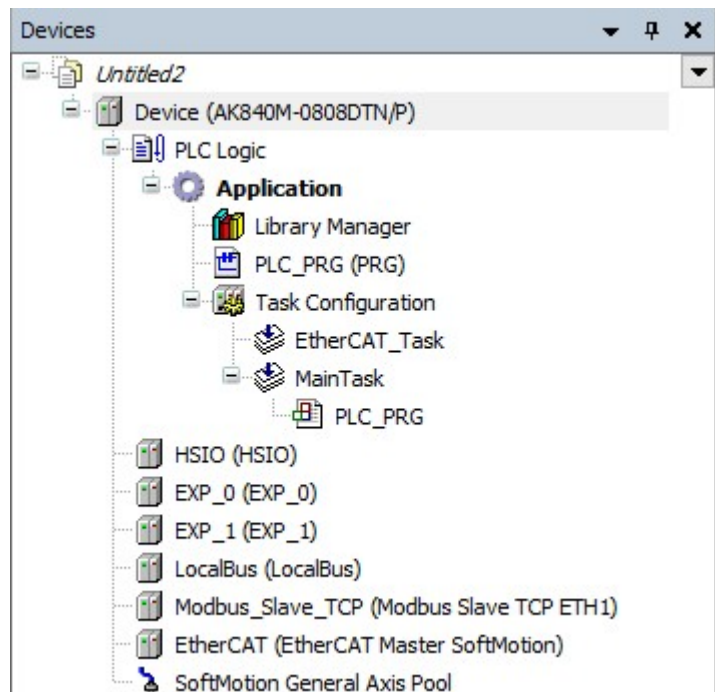
Then close the Library Manager



Apply power (24VDC) to the AK840M at this time.

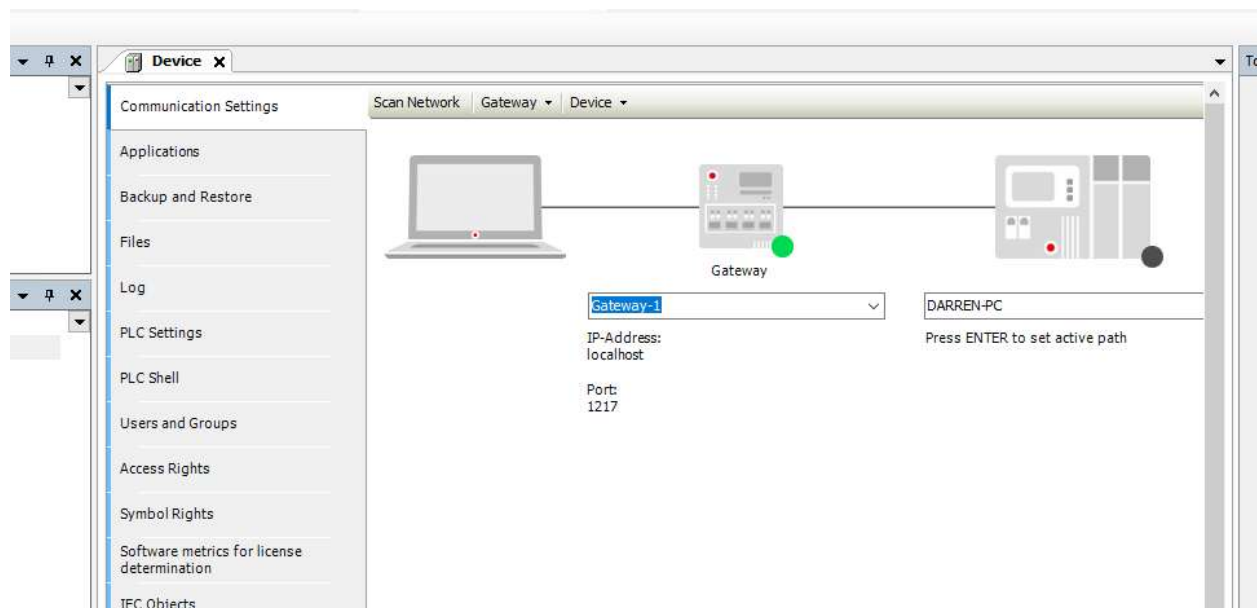


Double click Device to get to the device settings.

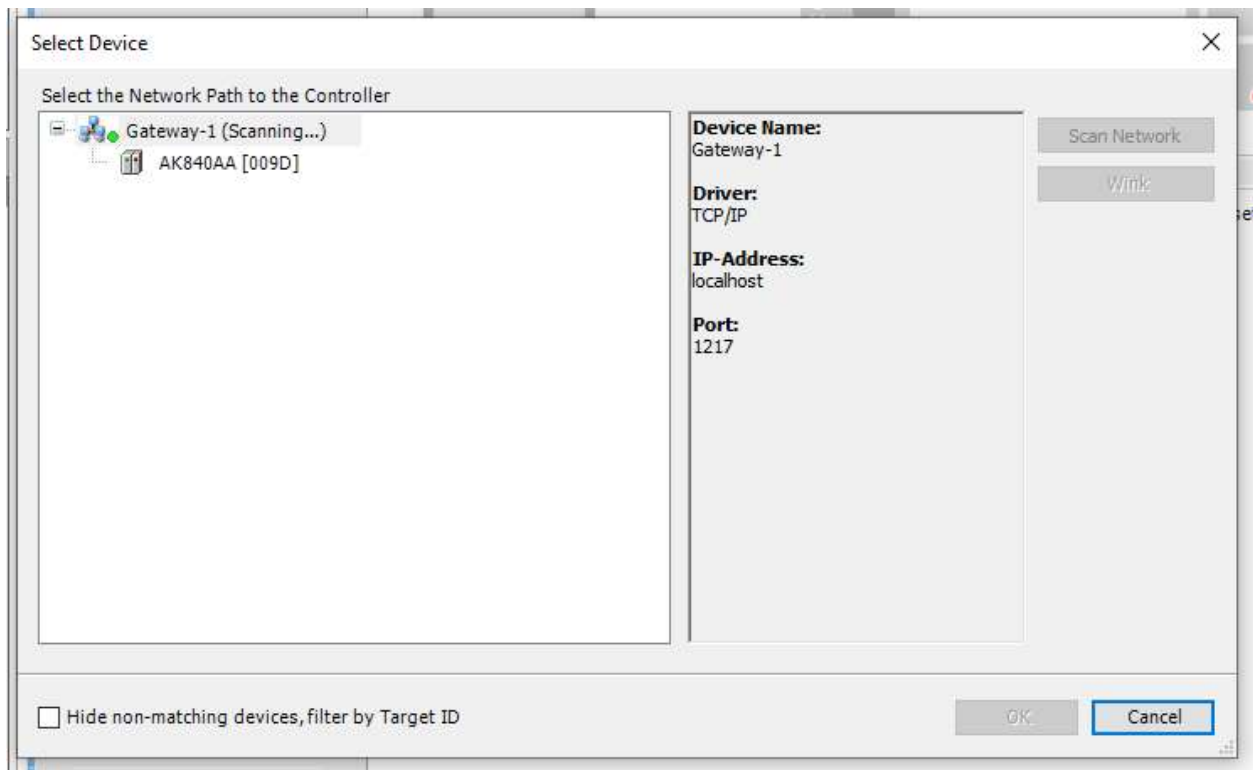


Choose the Communication Settings tab.

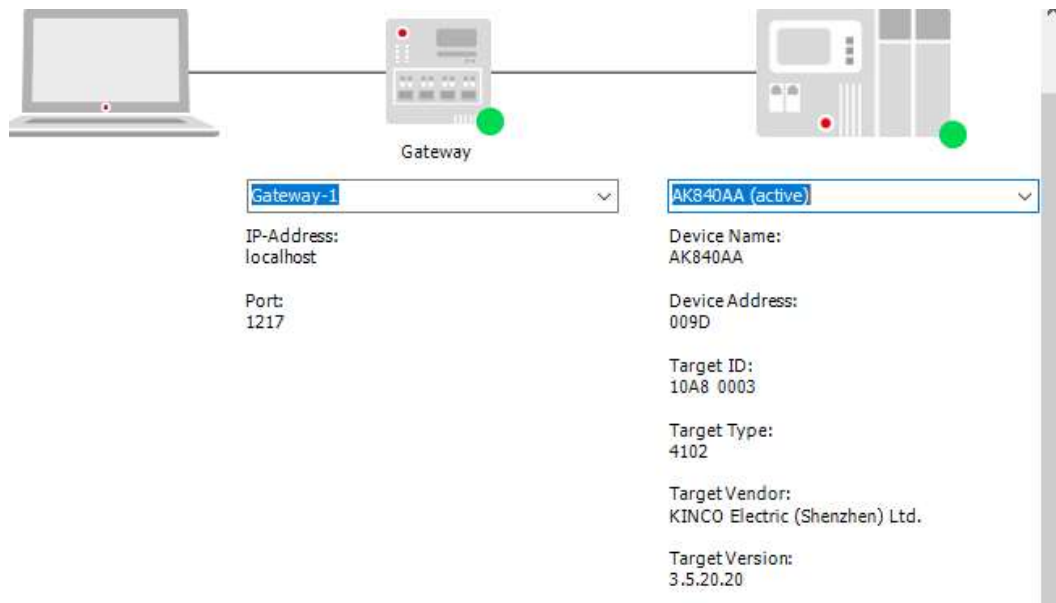
Choose the Scan Network tab.



Select the AK840M and Click OK.

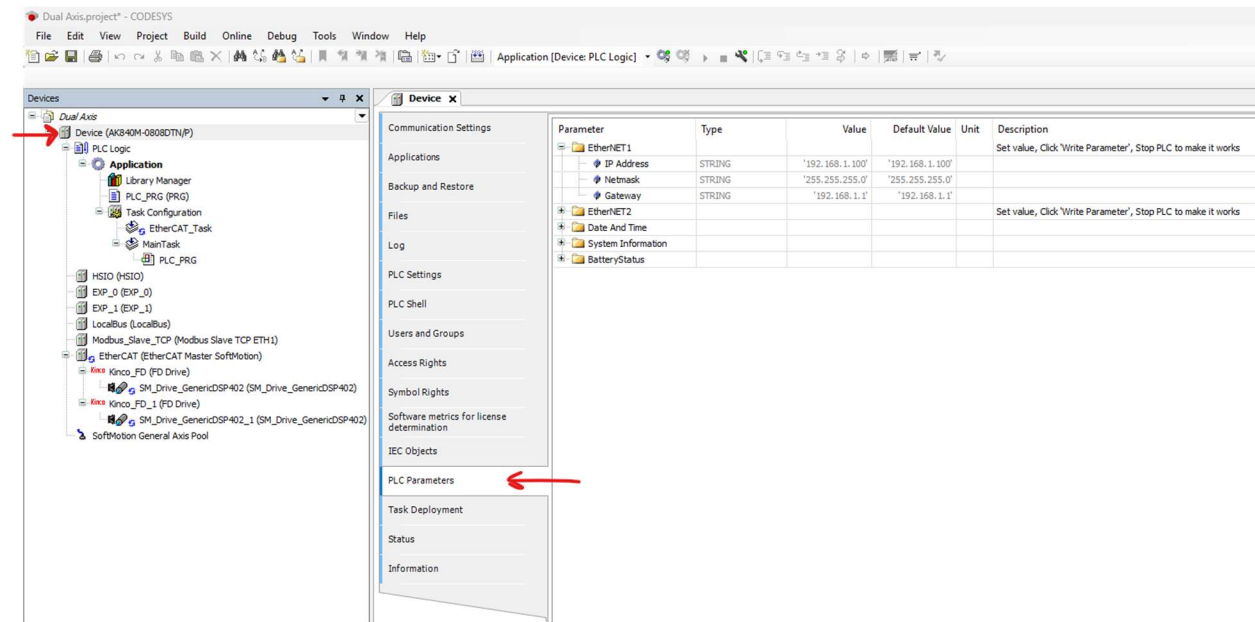


The AK840M should now show as Active AK840M (Active). And both indicators should be Green. This shows that the AK840M is connected correctly to the PC.

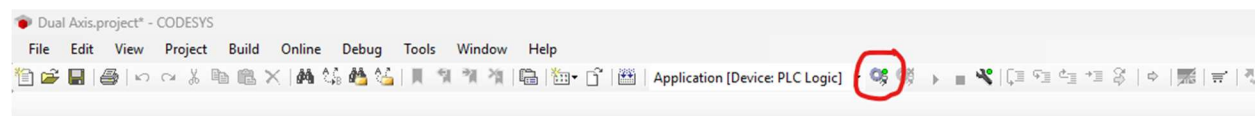


If you want to change the IP Address of the AK840M,

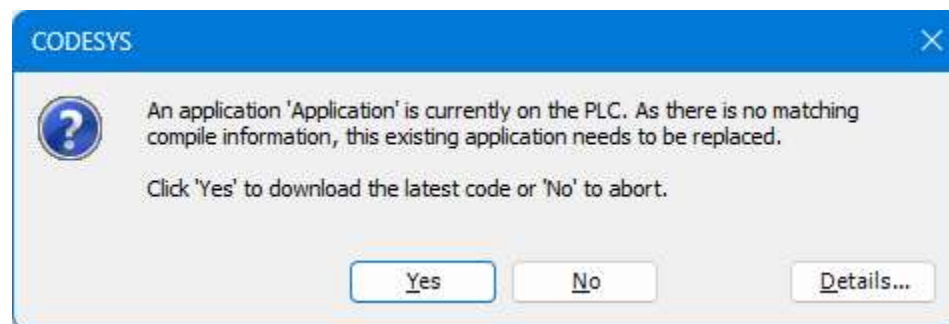
Double Click on the Device and Select PLC Parameters, and expand EtherNET1



Now Log Into the AK840M –



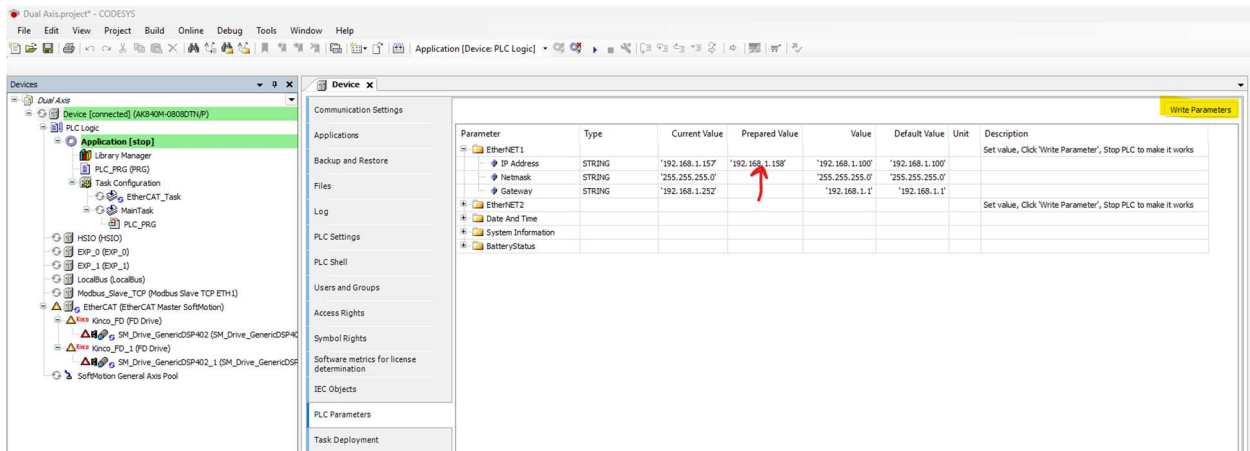
It will ask you to replace the current application, click Yes to download the latest code



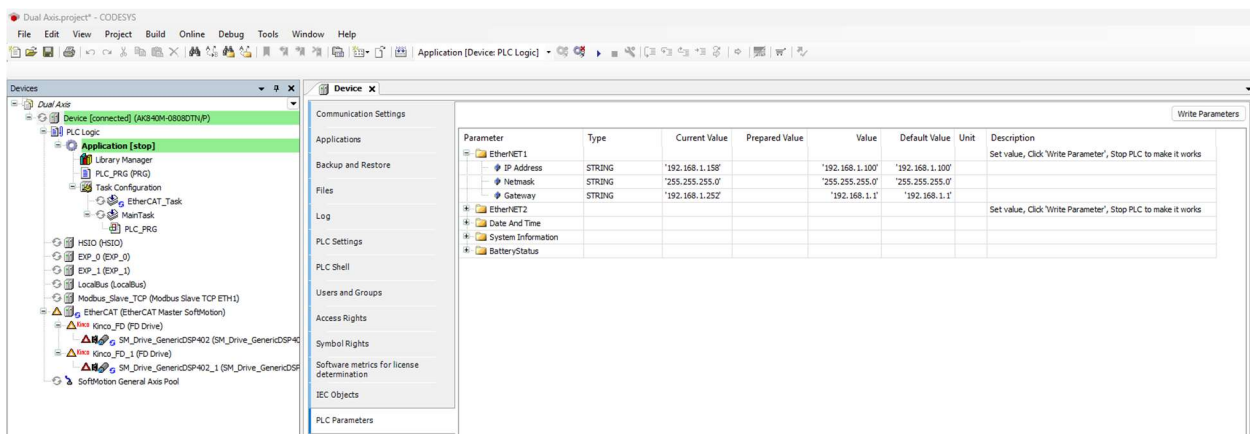
The Current values will load onto the screen and the device will show connected and will be in stop mode.

If you want to change the IP, write the new address in the “Prepared Value” column on the correct line.

Then Click on Write Parameters in the Top Right of the window.



When accepted the new value will show in the Current Value



You are now ready to start programming the AK840 Controller.