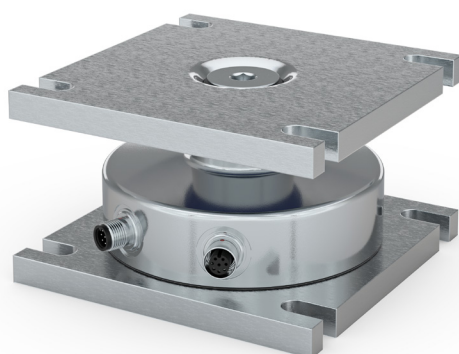
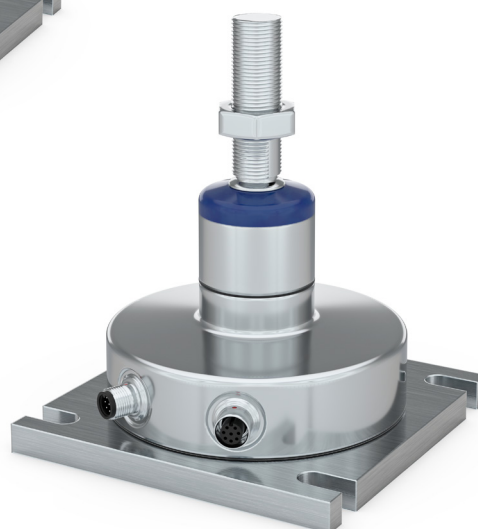
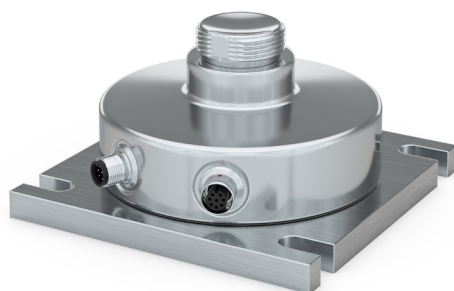


SLL210 AnyLevel™

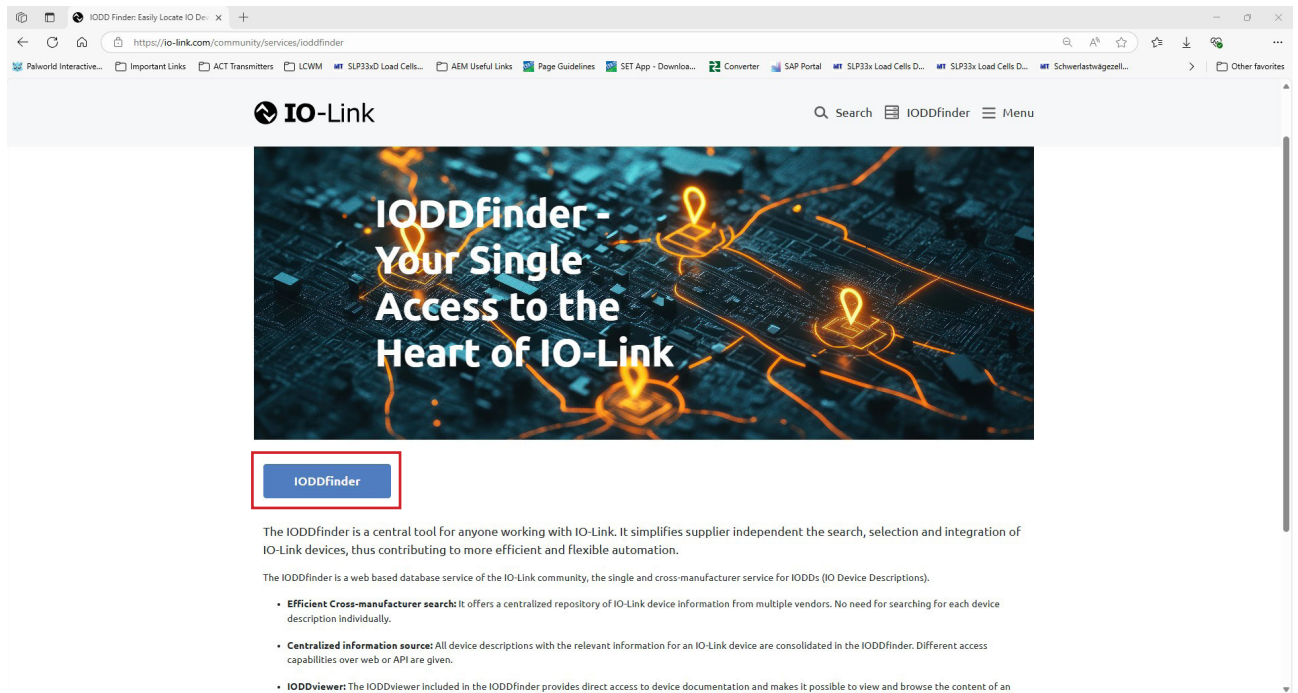
Gravimetric Level Detection



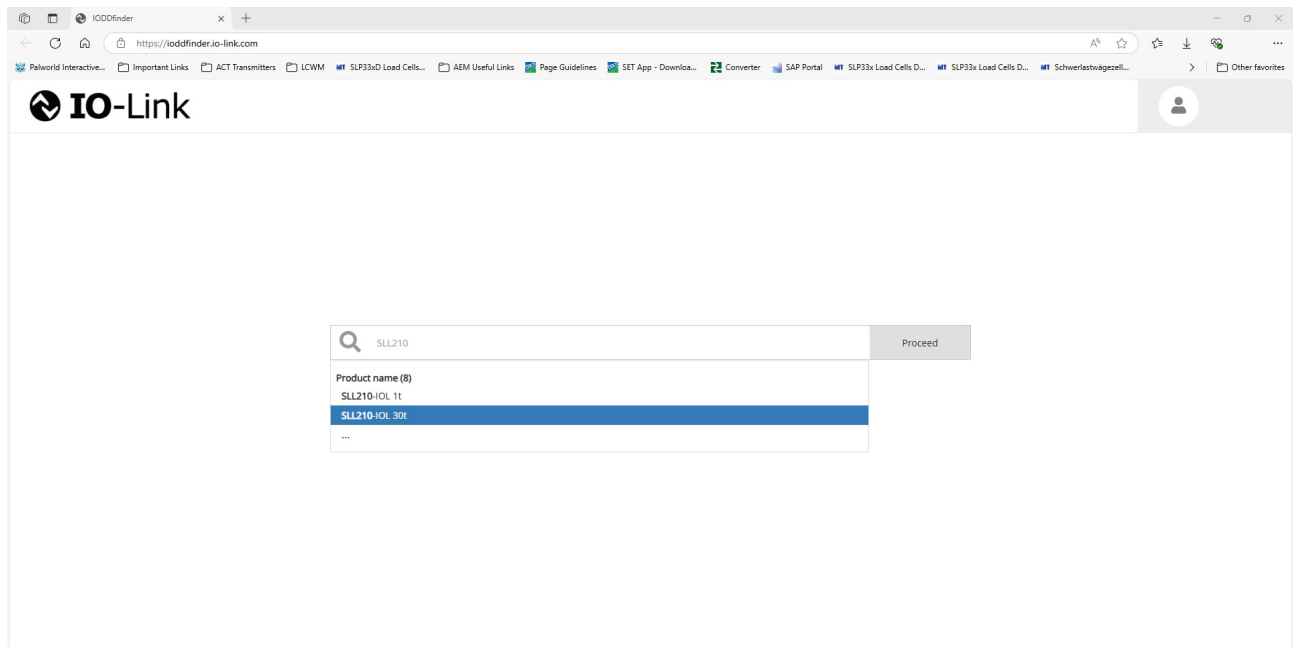
METTLER **TOLEDO**

The Siemens PLC Integration Manual for the SLL210 AnyLevel™ sensors describe the steps to obtain a running system.

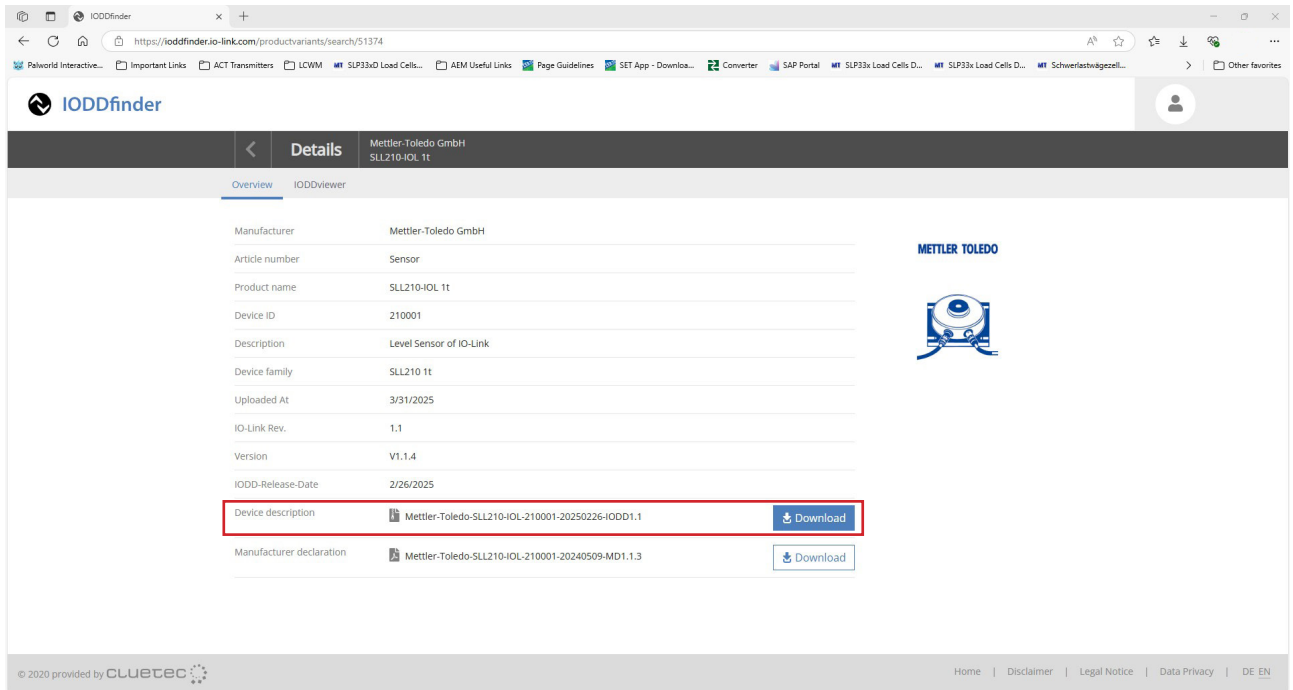
1. The SLL210 IO-Link Description File (IODD file) can be found on [IO-Link.com](https://io-link.com).



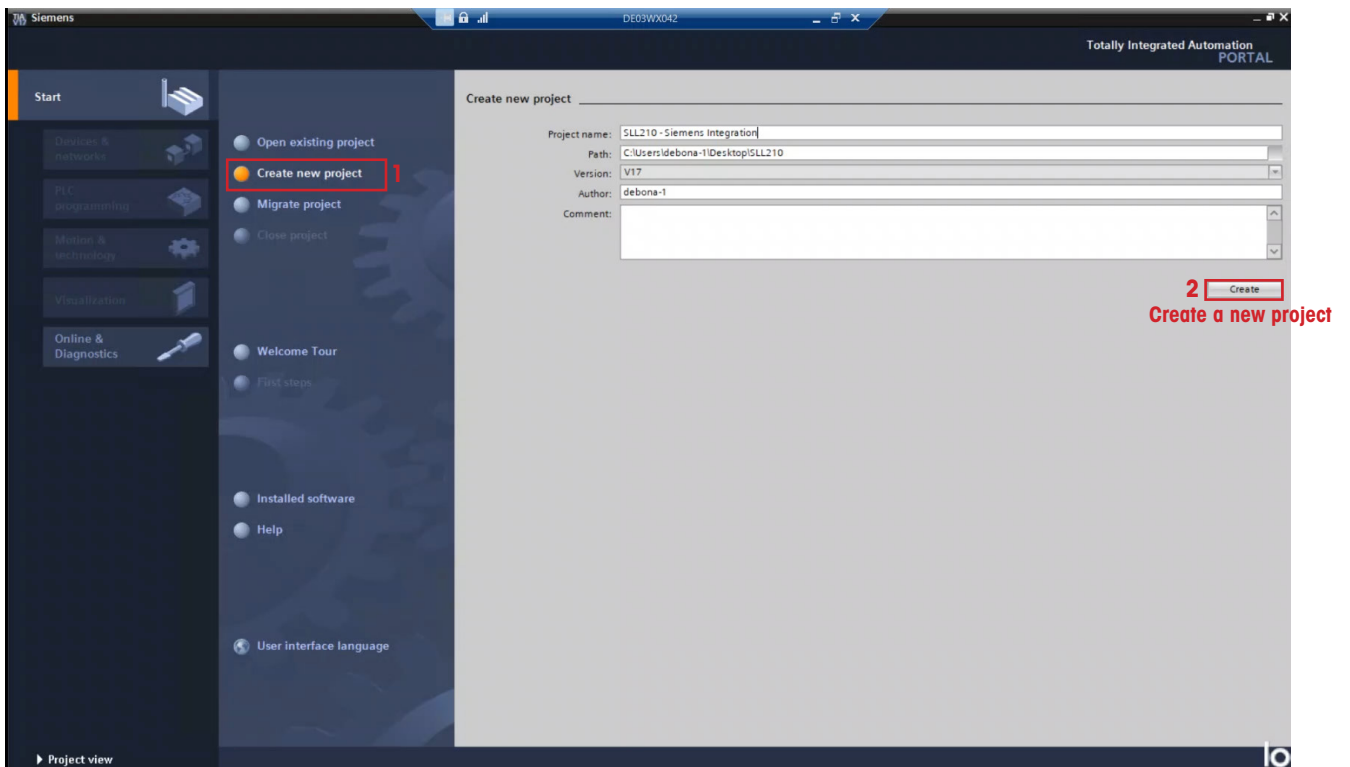
2. Enter the SLL210 sensor model to retrieve the IODD file.



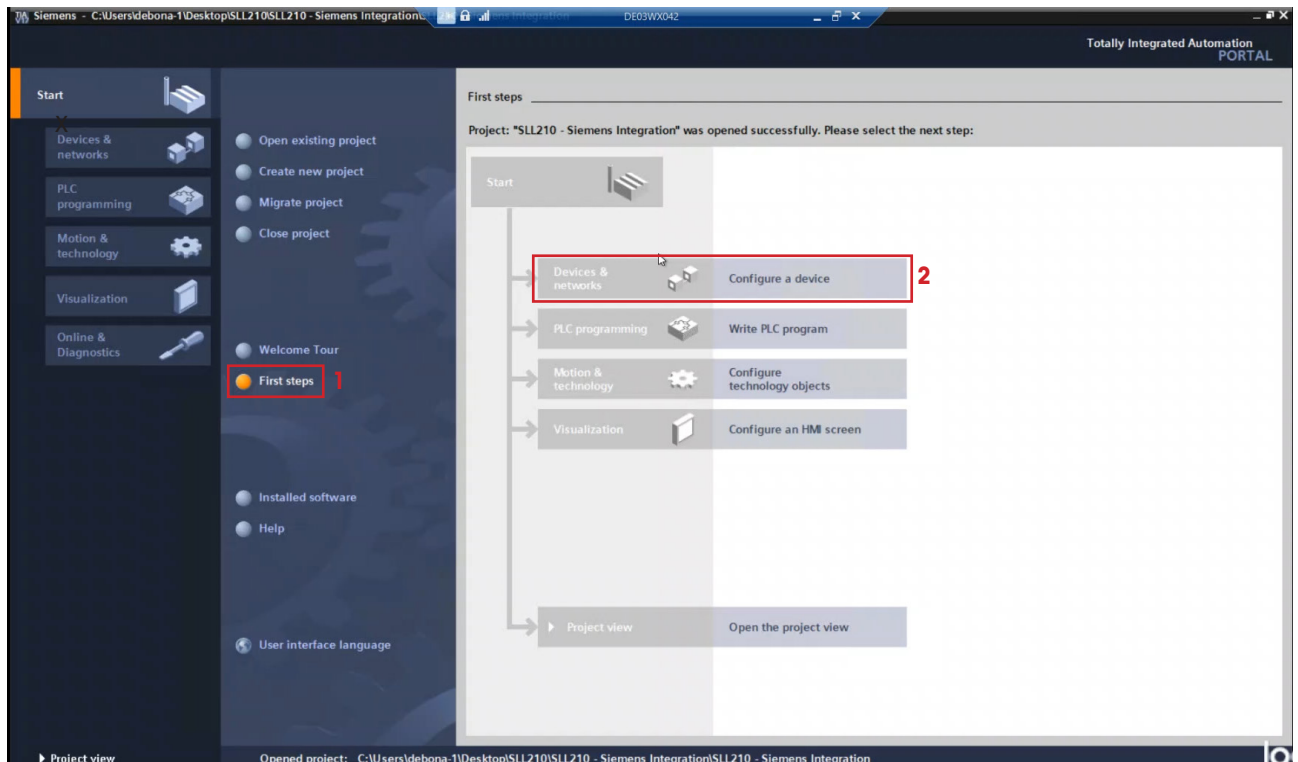
- Download the IODD file and import the IODD file on the IO Link Master. In this example, the AL1102 IO Link Master is used, the IODD file is imported on the IO Link Master from the Moneo configure free webpage.



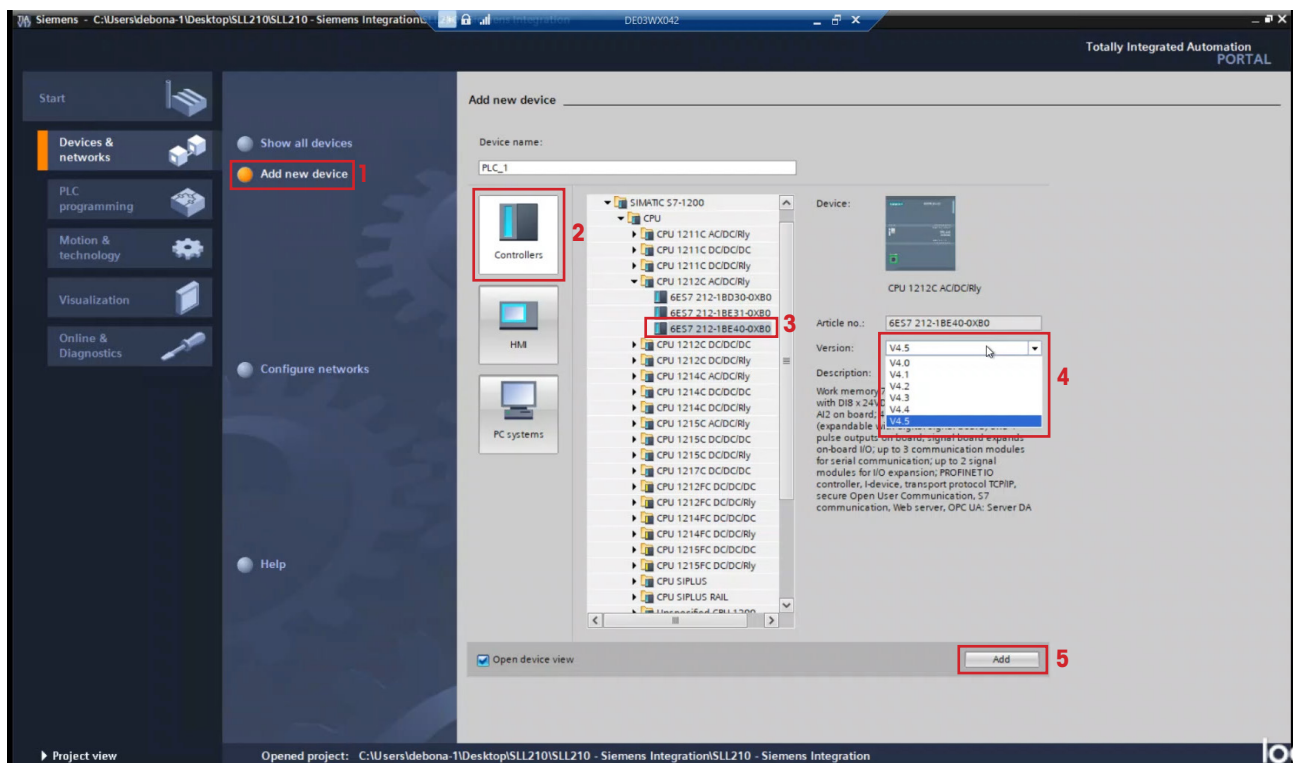
- Create a new project in the Totally Integrated Automation (TIA) Portal.



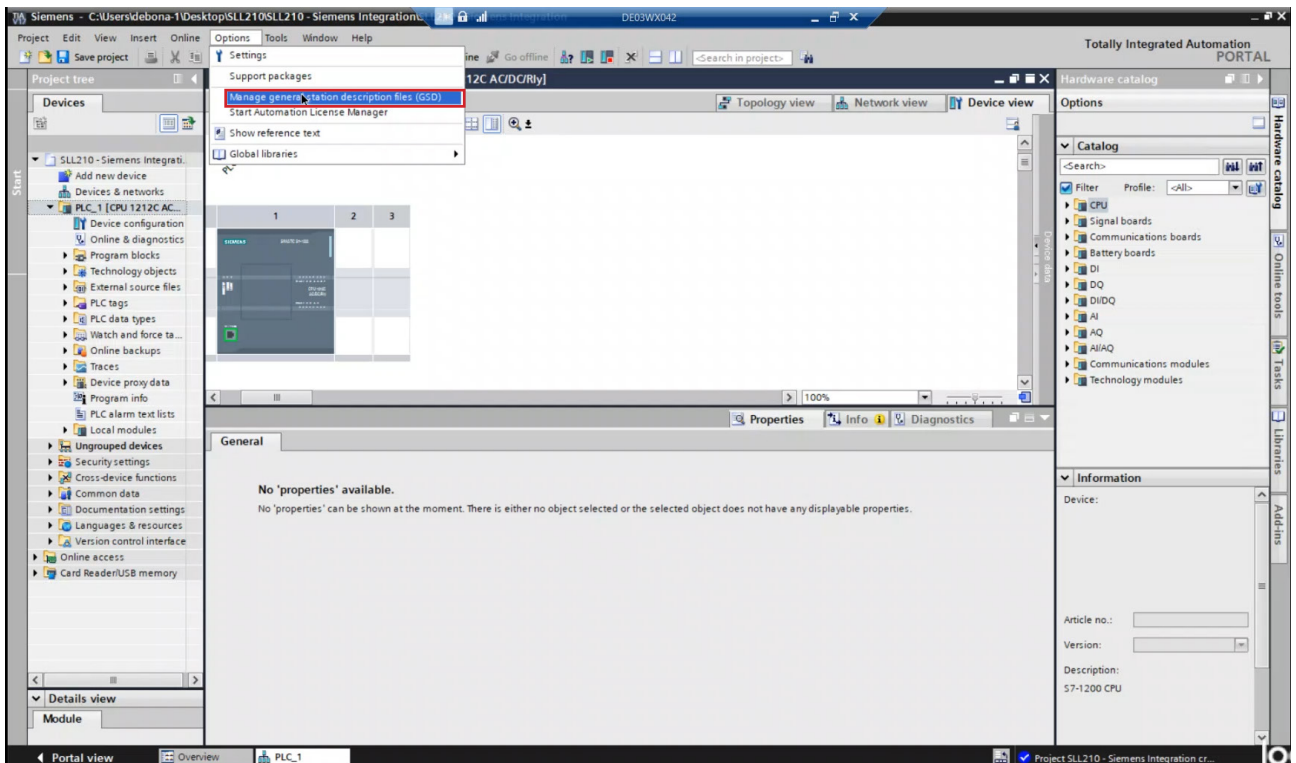
- In the **Start** menu, click on **First Steps**, click on **Device & Networks / Configure a device**.



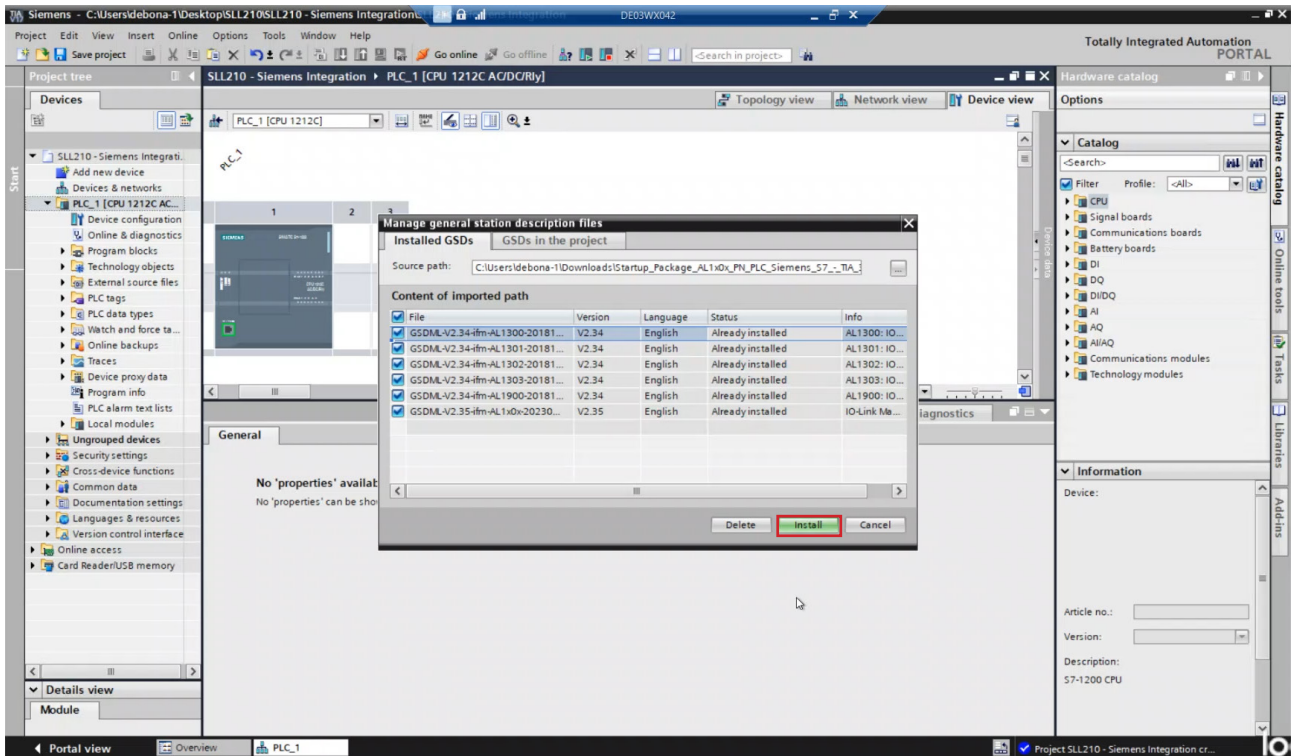
- In the **Device & networks** menu; click **Add new device**, click on **Controllers** and select the PLC model and version. Finally, click on **Add**.



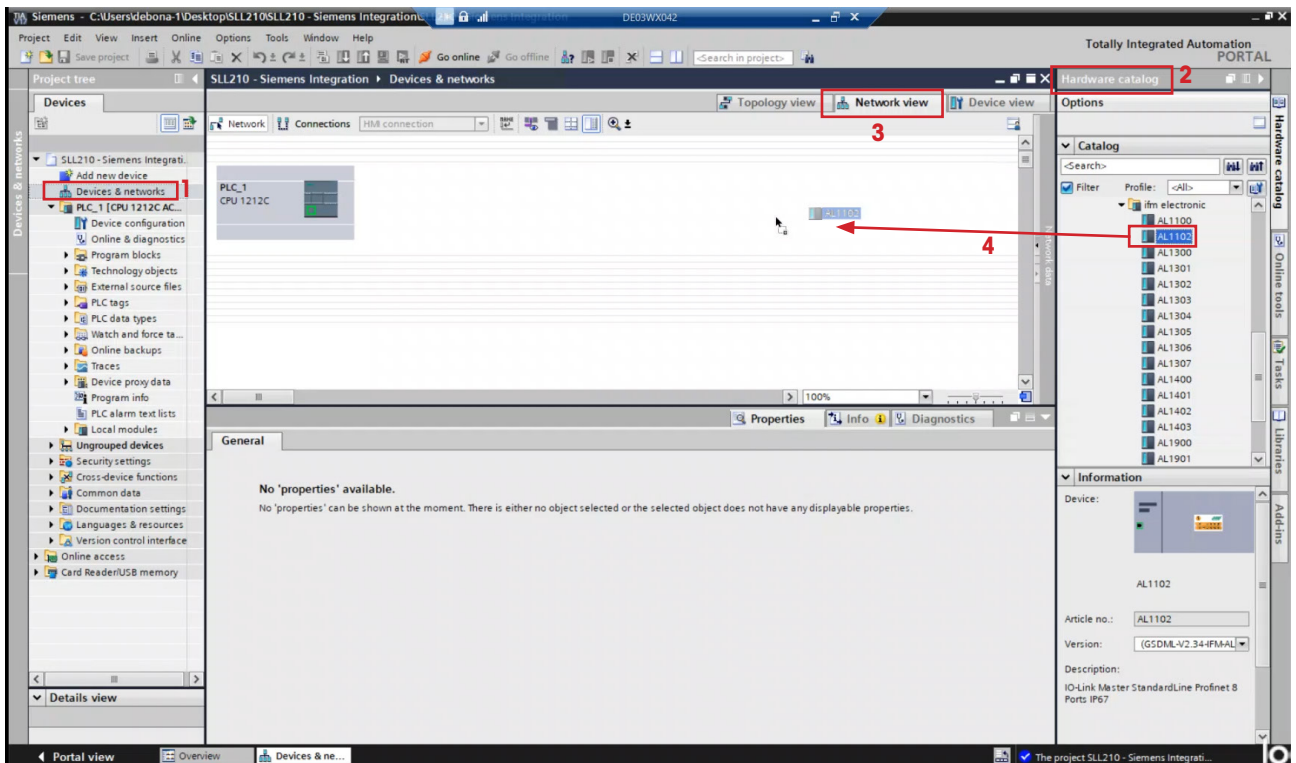
7. Import the IO-Link Master GSDML file in TIA Portal Software. Click in the Menu **Option**, Select the submenu **Manage general station description files (GSD)**.



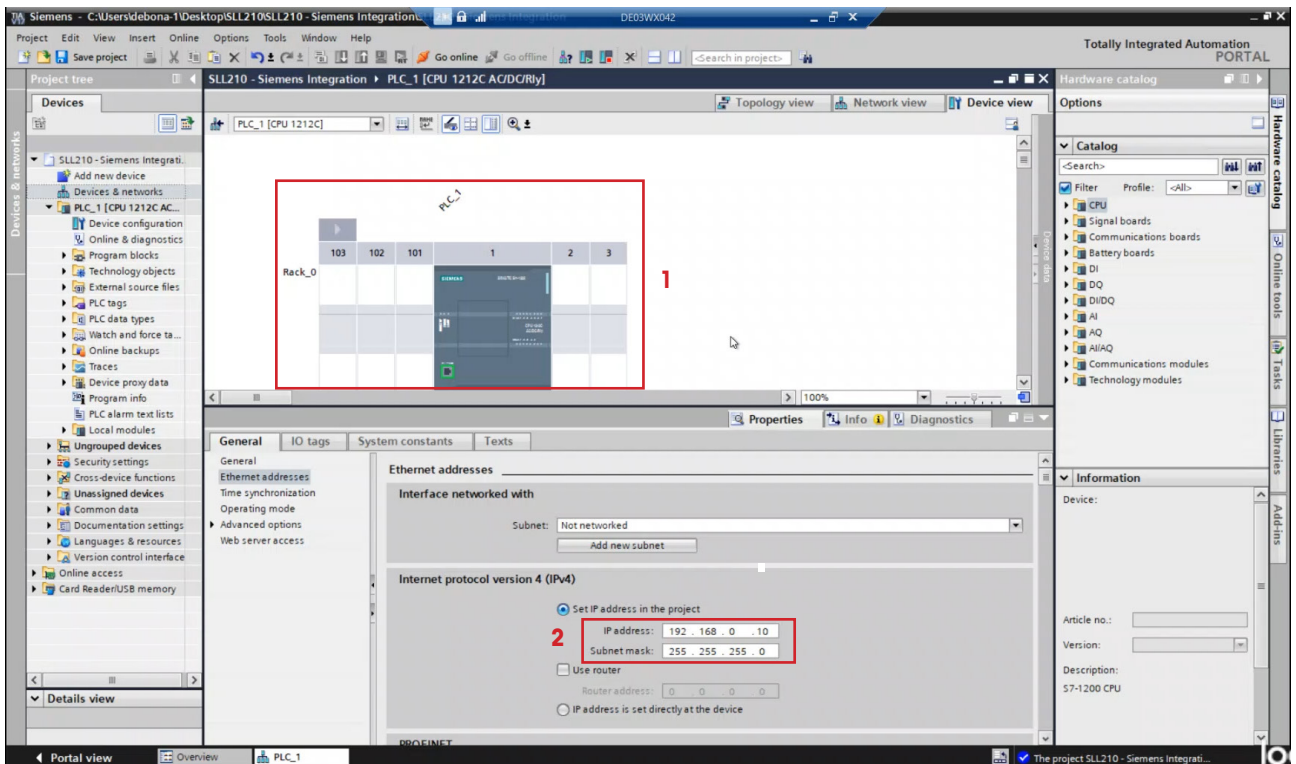
8. Install the GSDML file from the IO-Link Master.



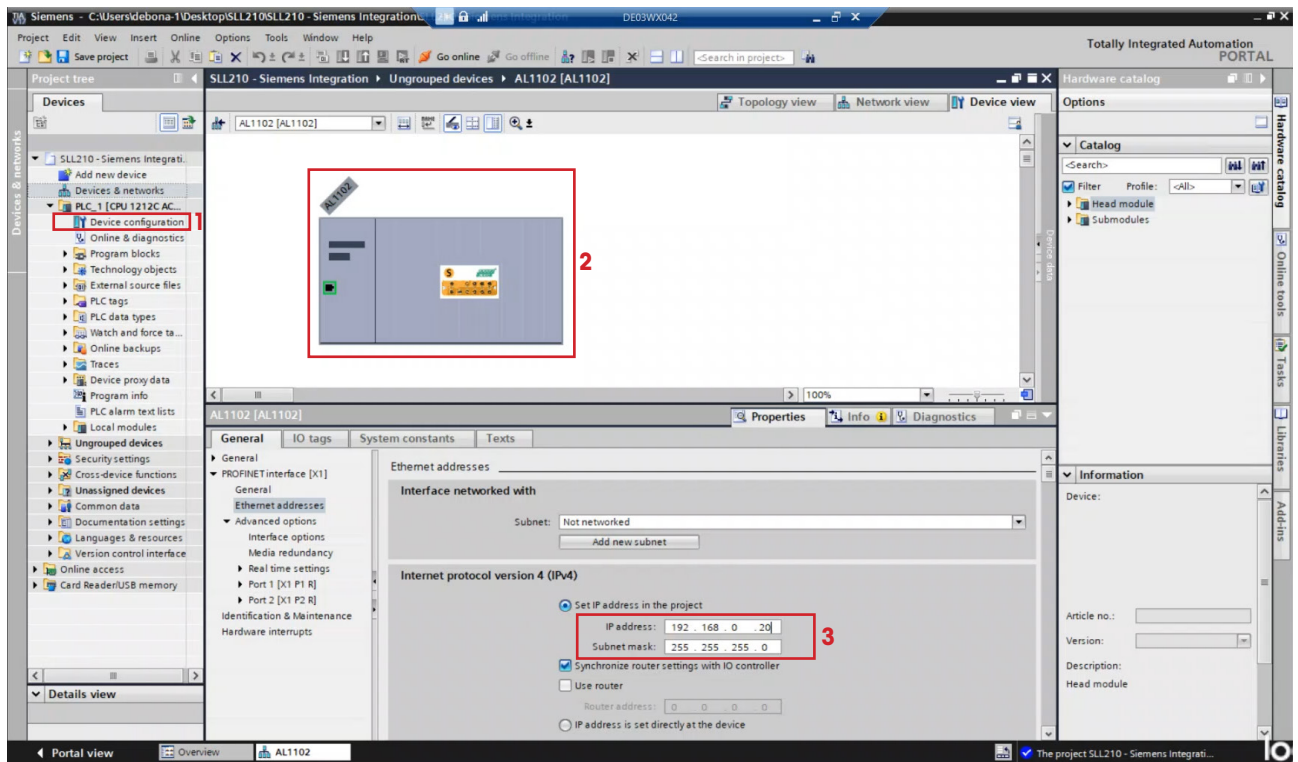
- From the **Project Tree** window, Click **Device & networks**. From the **Hardware catalog** window, in the **Other field devices** menu, drag and drop the IO Link Master Module into the **Network View** window.



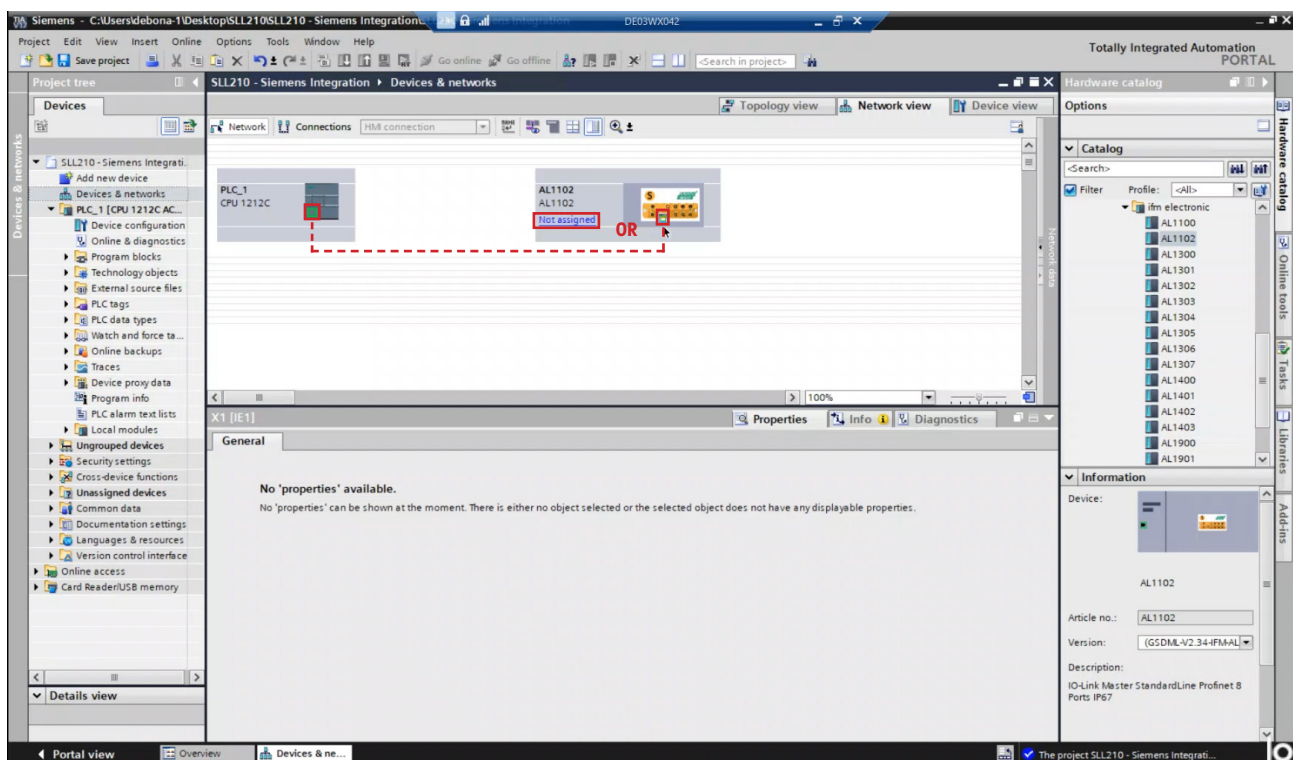
- In the **Network view** window, double-click on the PLC icon. Set the I.P. address and subnet mask in the **Properties** window.



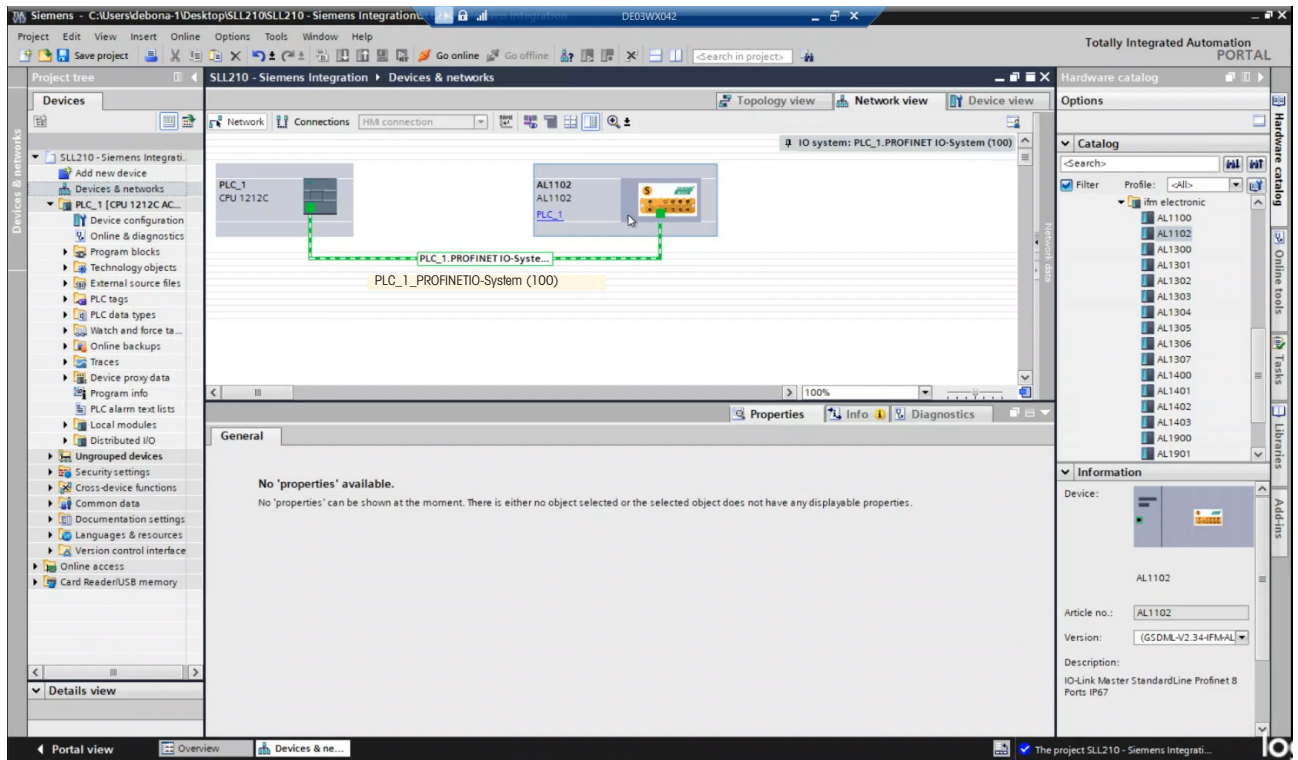
11. From the **Project Tree** window, Click on **Device & networks**. In the **Network View** window, double click on the IO Link Master Module device; click once again on the IO Link Master Module device. Set the I.P. address and subnet mask in the **Properties** window.



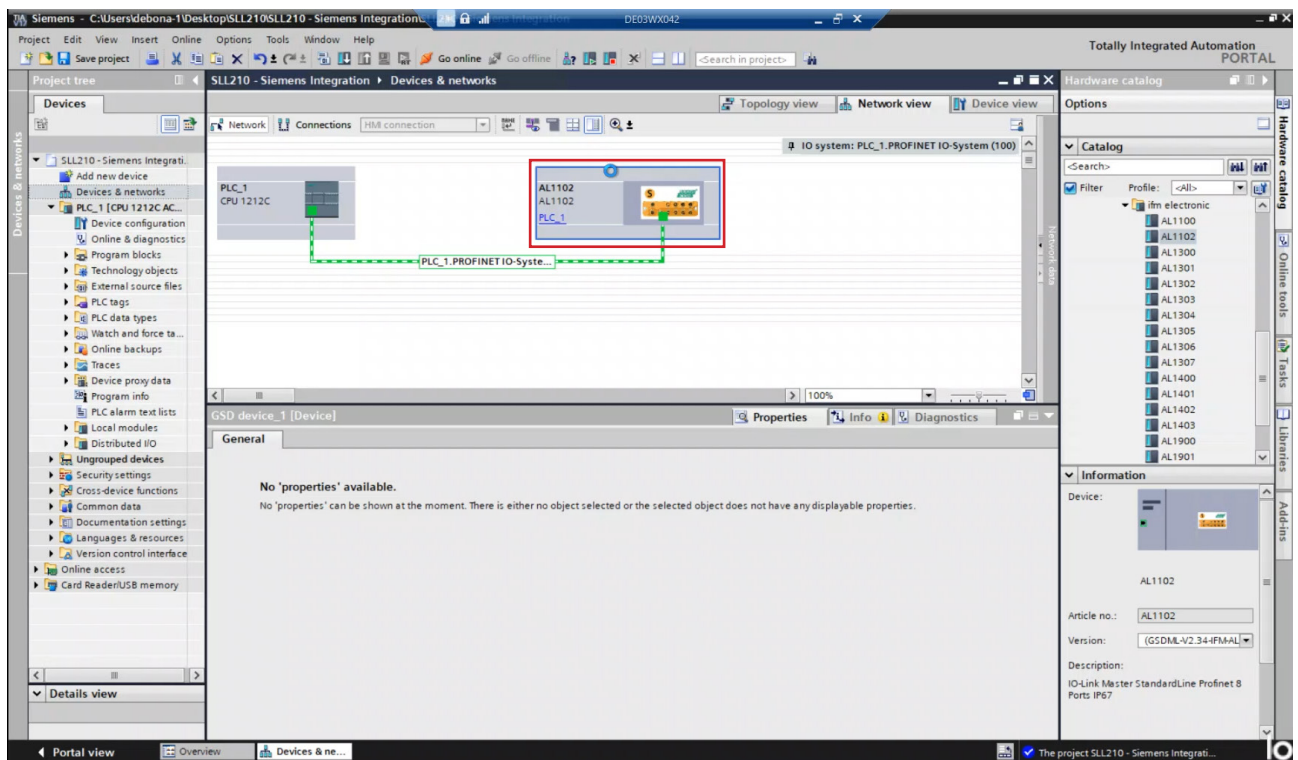
12. From the **Project Tree** window, Click on **Device & networks**. To assign the IO Link Master module to the PLC, click on the **Not Assigned** link and select the desired Profinet Interface of the PLC. An alternative way of connecting both module is to select the PLC green square, drag and drop to the IO Link Module green square.



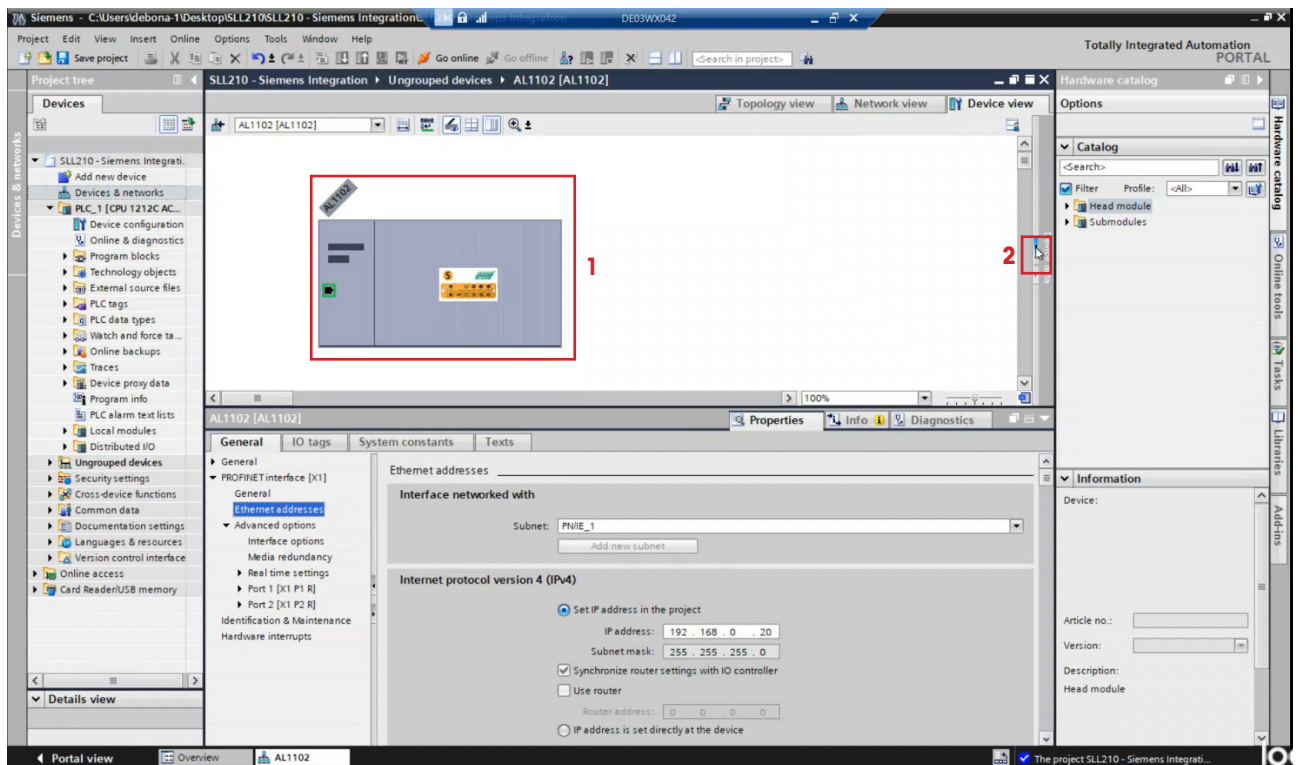
13. When successfully assigned, a green graphic linking the PLC and the module together is visible.



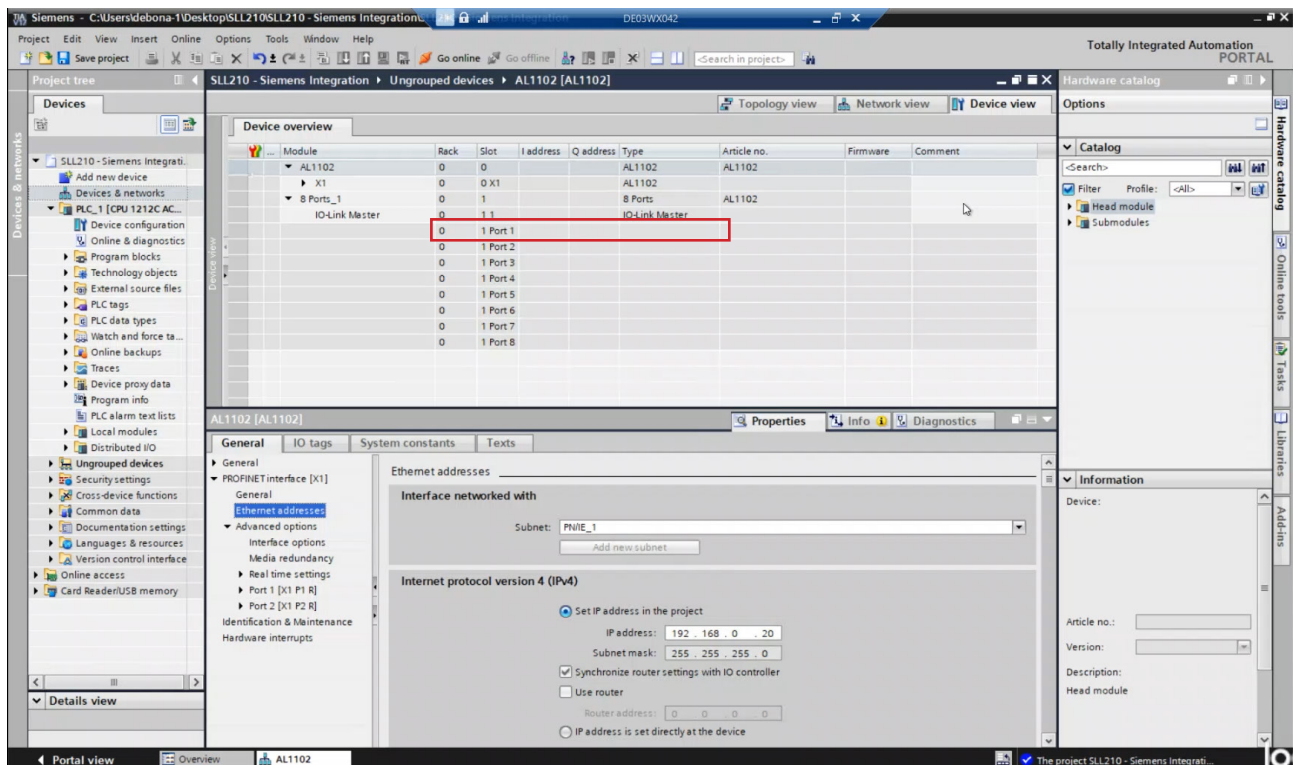
14. In the **Network view** window, double click on the IO Link Master Module Block.



15. In the **Device view** window, click on the IO Link Master Module. Click on the **Device Data** button to view the **Device Overview** window.

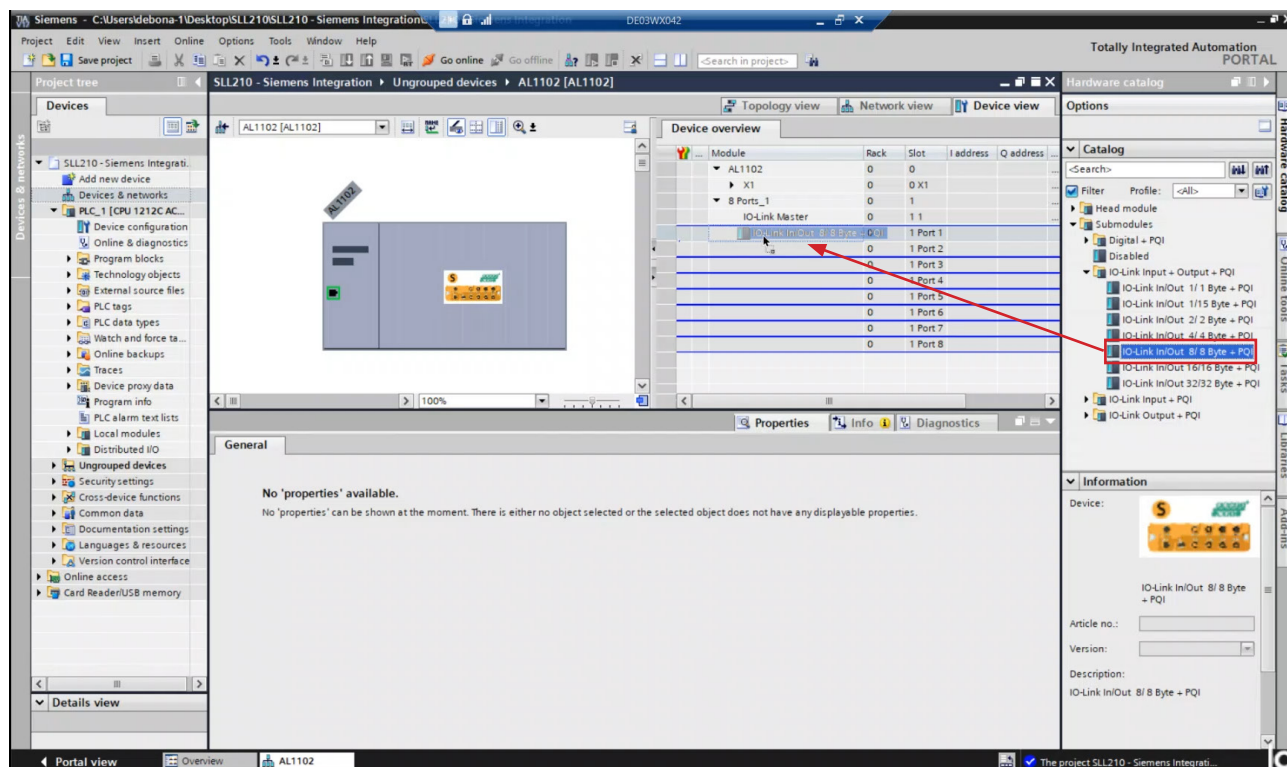


16. SLL210 Anylevel sensor I/O size is 8-byte Input and 8 Bytes Output. In this case, the SLL210 is connected to the **Port 1** of the IO-Link Master. The second table is extracted from the SLL210 Installation Manual, it describes the bit allocation in the cyclic process data.

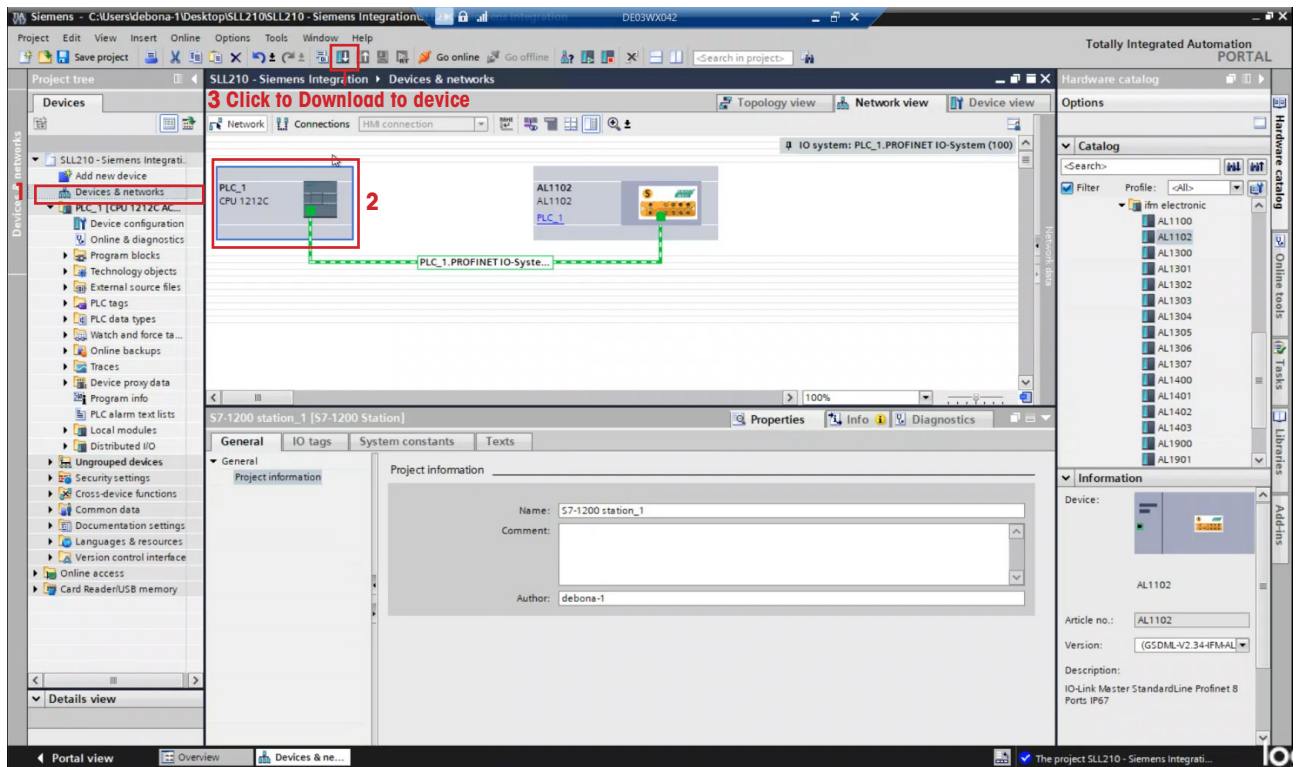


Process data input	Index 40	Subindex 0	RecordT (64 Bit)
Measured Value		Octet 0 ~ 3	Float32T (32 Bit)
Device status 1		Octet 4	UIntegerT (8 Bit)
Number Of Sensors			UIntegerT (4 Bit)
Sensor Status			UIntegerT (4 Bit)
Device status 2		Octet 5	UIntegerT (8 Bit)
Smart5 Level5 Alarm			BooleanT (1 Bit)
Smart5 Level4 Alarm			BooleanT (1 Bit)
Smart5 Level3 Alarm			BooleanT (1 Bit)
Smart5 Level2 Alarm			BooleanT (1 Bit)
Reserved			BooleanT (1 Bit)
Reserved			BooleanT (1 Bit)
Reserved			BooleanT (1 Bit)
Heartbeat			BooleanT (1 Bit)
Device status 3		Octet 6	UIntegerT (8 Bit)
Measured Unit			UIntegerT (4 Bit)
Measured Type			UIntegerT (2 Bit)
Lower Alarm Status			BooleanT (1 Bit)
Upper Alarm Status			BooleanT (1 Bit)
Reserved		Octet 7	UIntegerT (8 Bit)

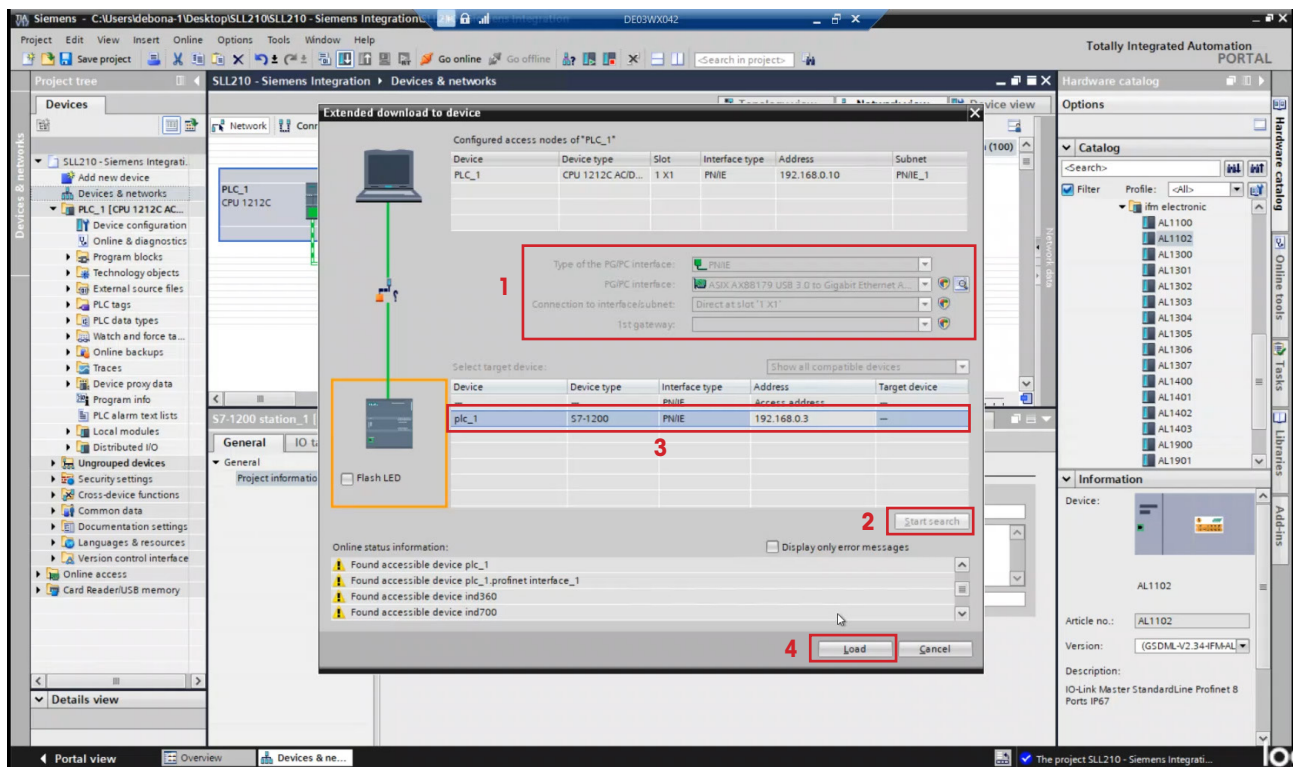
17. From the **Hardware catalog** window, in the folder **Submodules** and subfolder the **IO Link Input + Output + PQI** , drag and drop the **IO Link In/Out 8/8 Byte + PQI** into the **Network View** window.



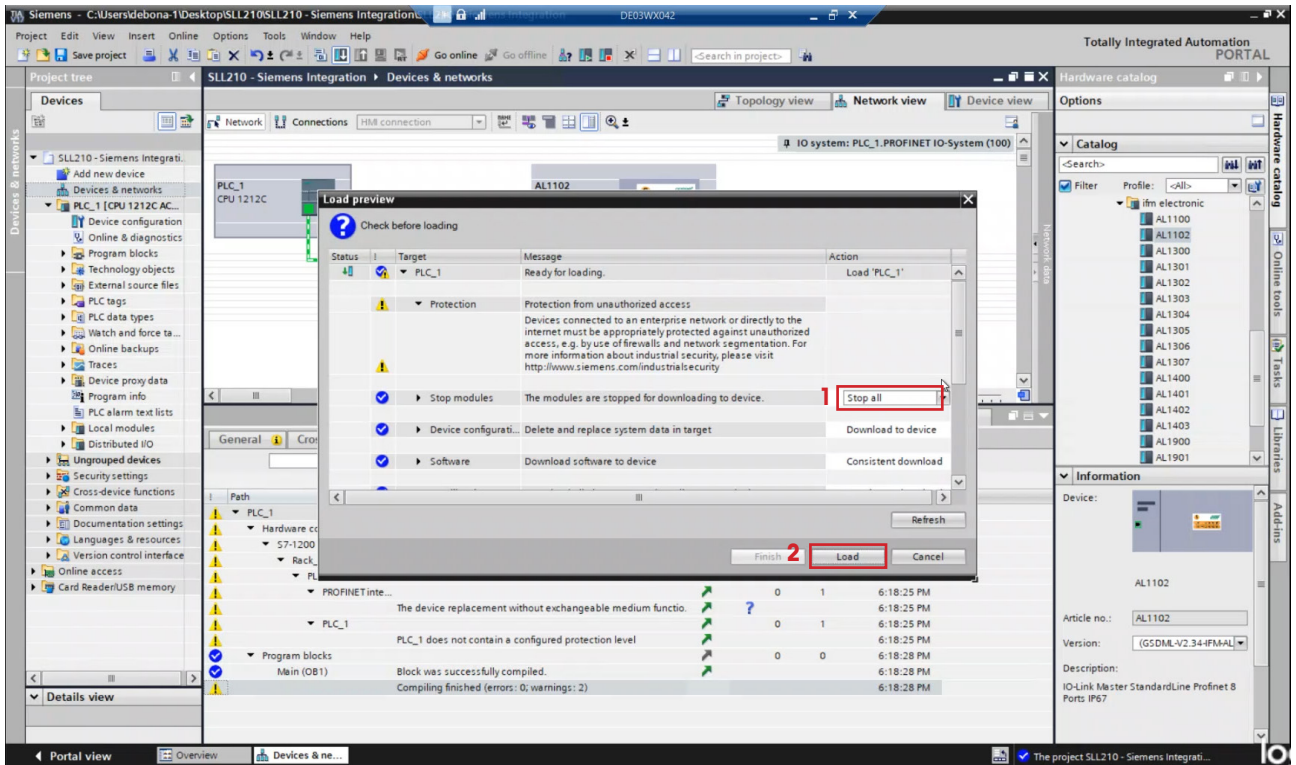
18. From the **Project Tree** window, click on **Device & networks**. In the **Network View** window, click on the PLC Module. Then, click **Compile** button, wait for compile to finish.



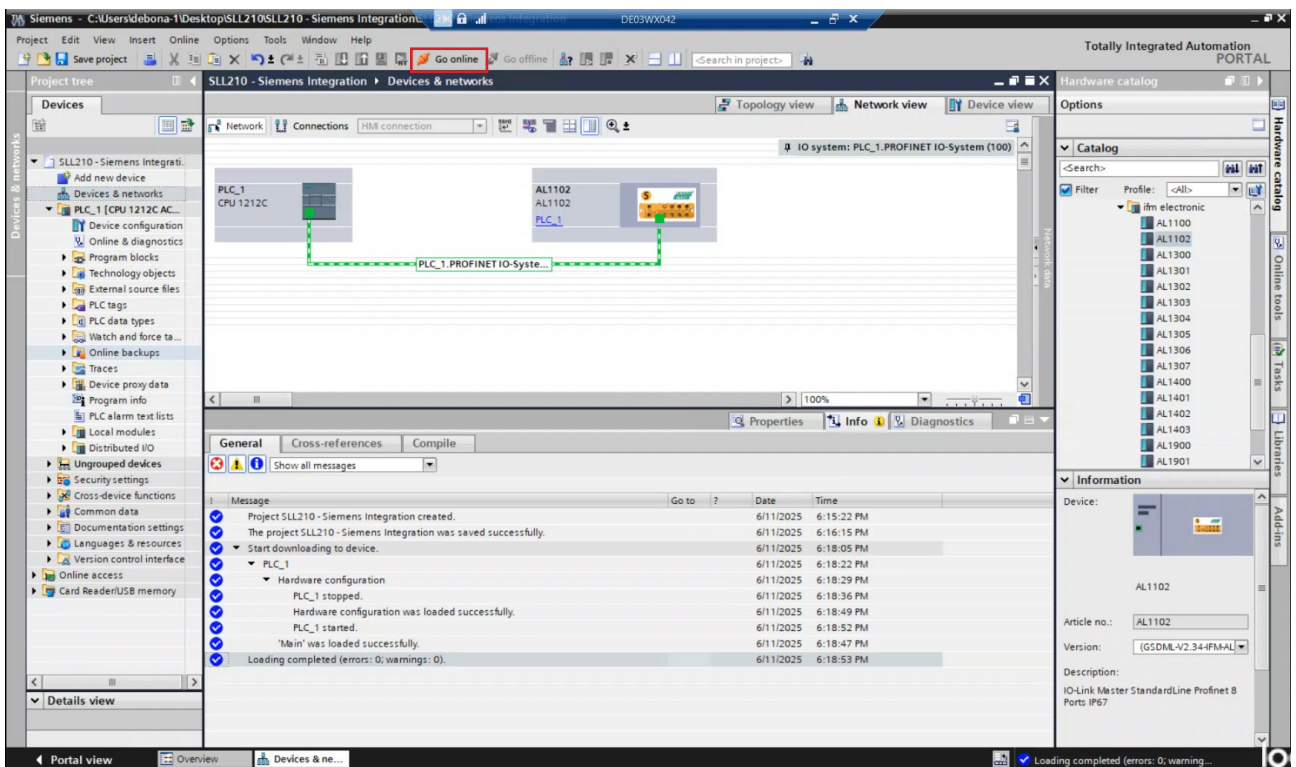
19. Select the appropriate PG/PC Interface, press on **Start Search**, select the device in the list, click **Load**.



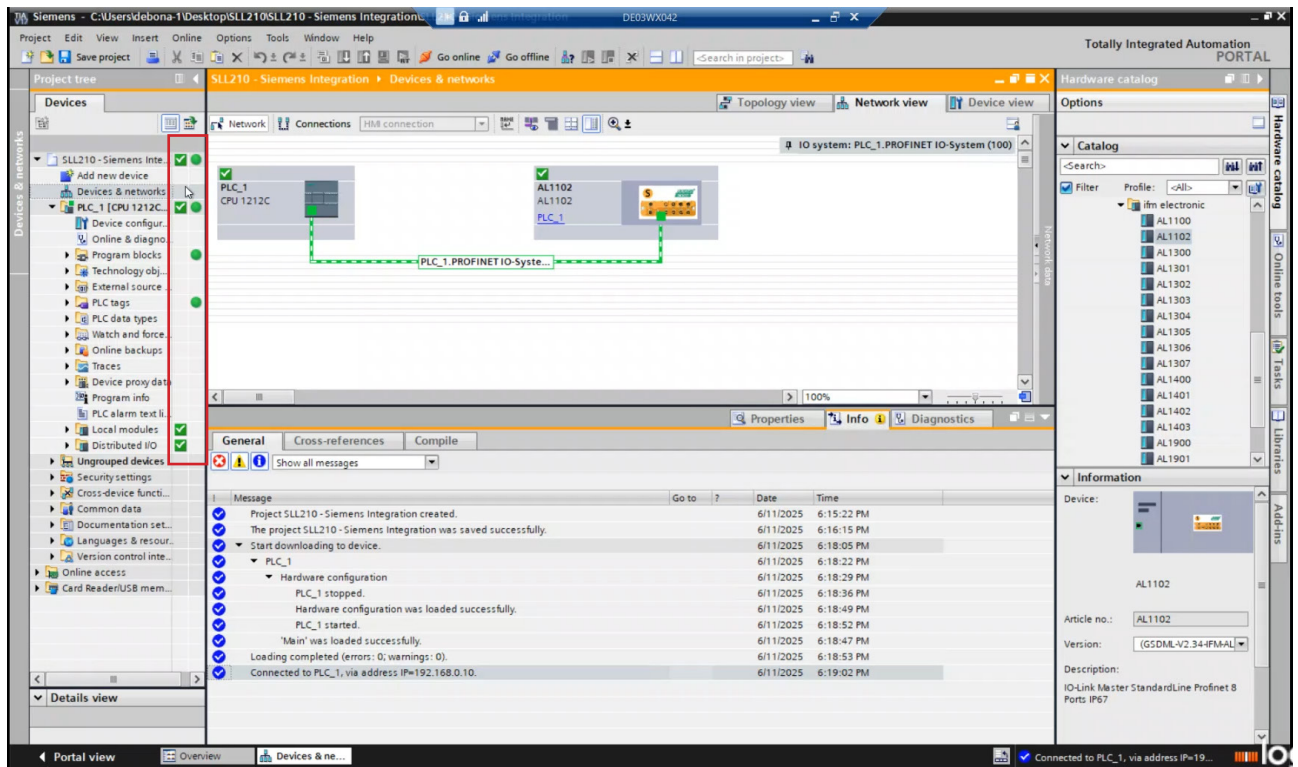
20. In the **Load preview** window, unanimously select **Stop all**, then click **Load**, and click **Finish**.



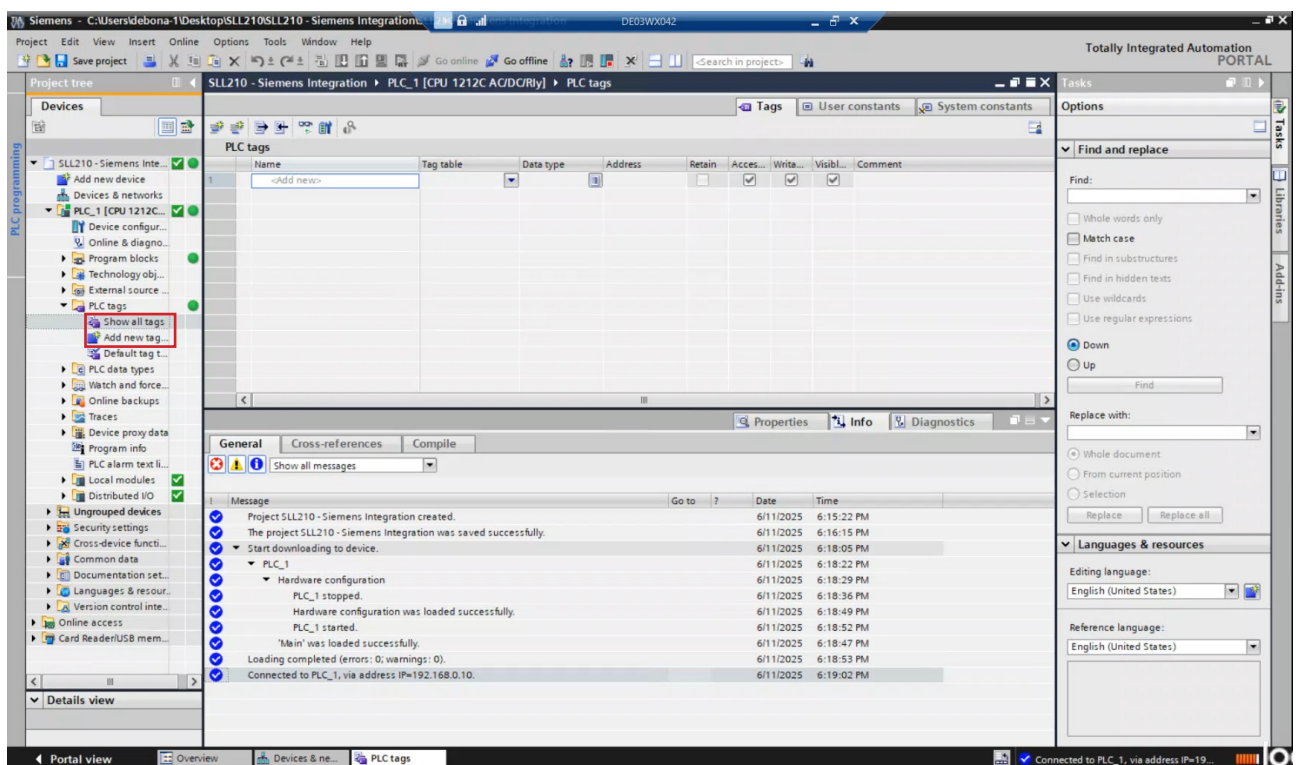
21. Click **Go online**.



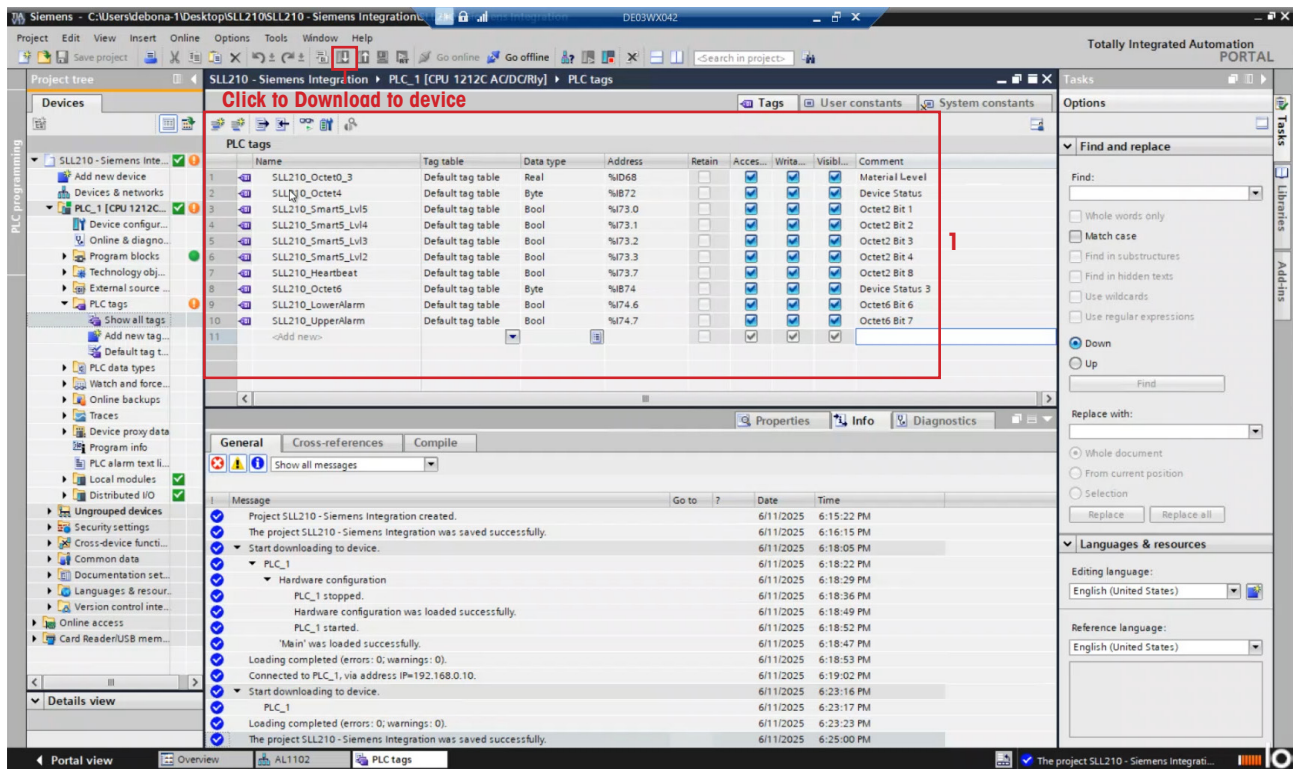
22. Verify that the configuration is correct and that the connection is successful.



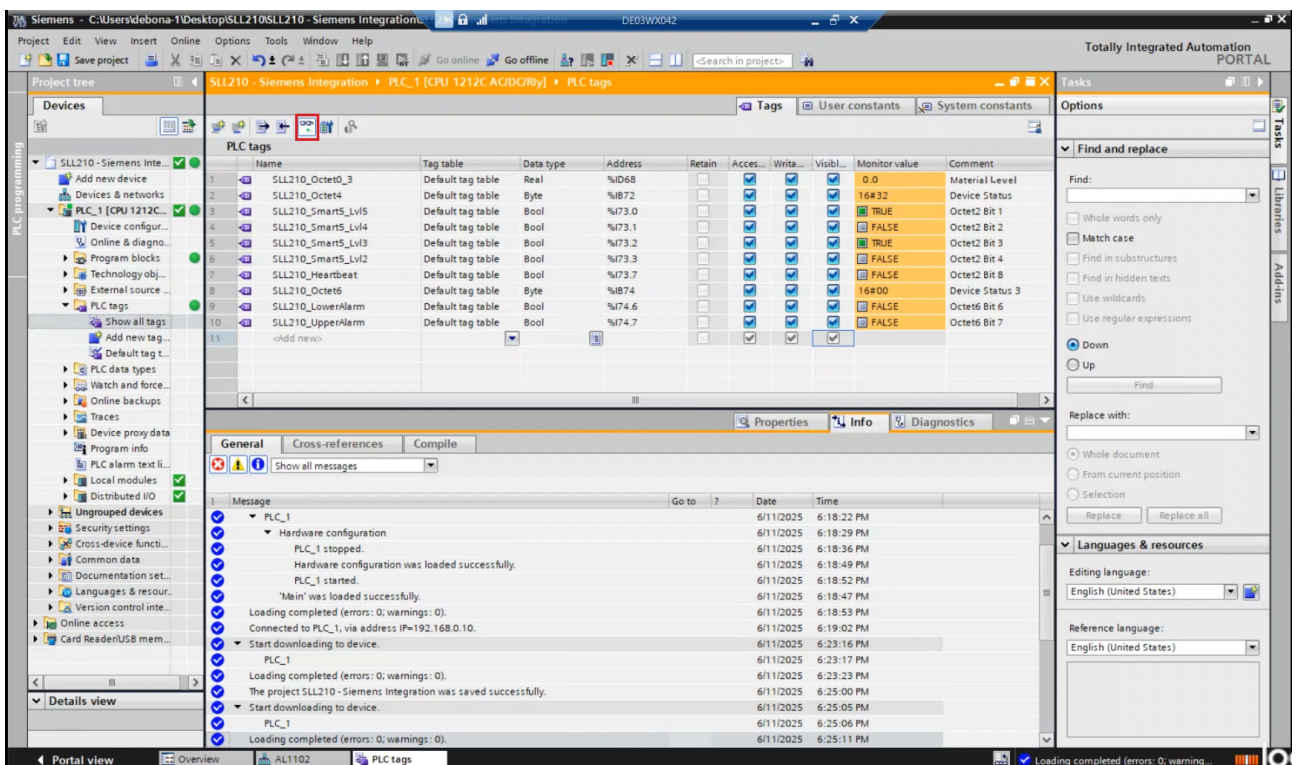
23. From the **Project Tree** window, click **PLC tags** and **Show all tags**, and click **Add new Tags**.



24. Enter the I/O addresses of the cyclic process data of the SLL210, click on **Download** to device, click **Load**.



25. Click on **Monitor on/off** to monitor the values and device status in the cyclic process data of the SLL210.



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