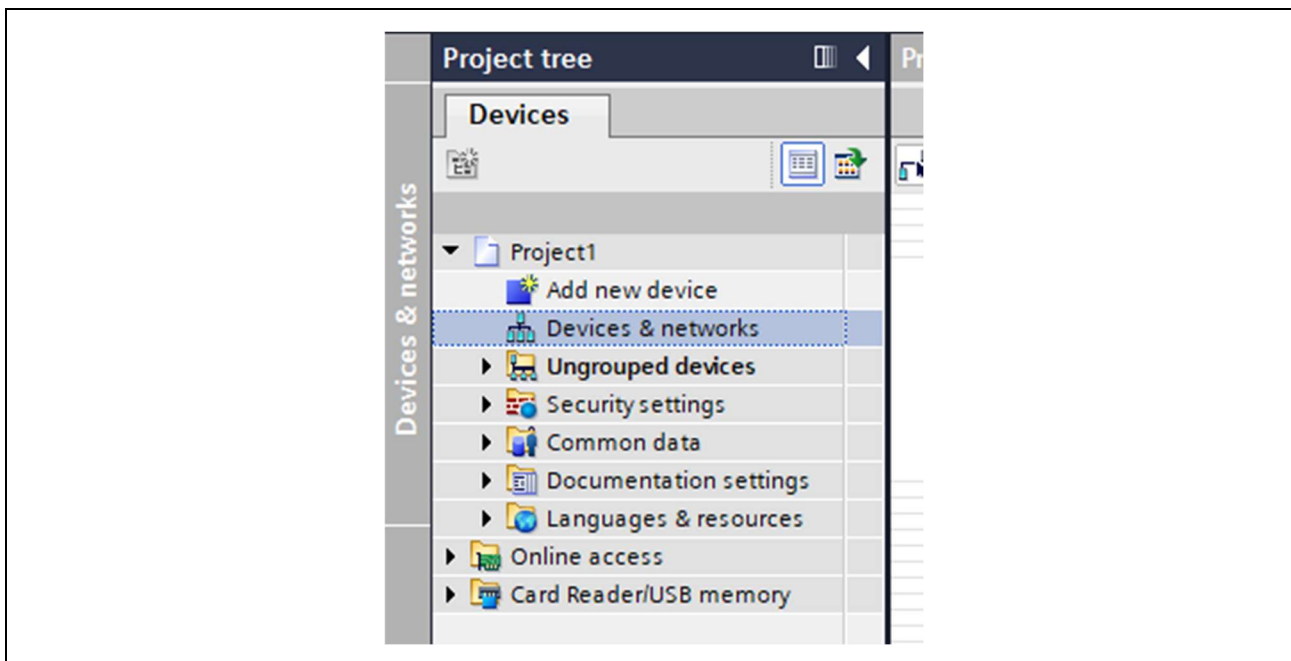
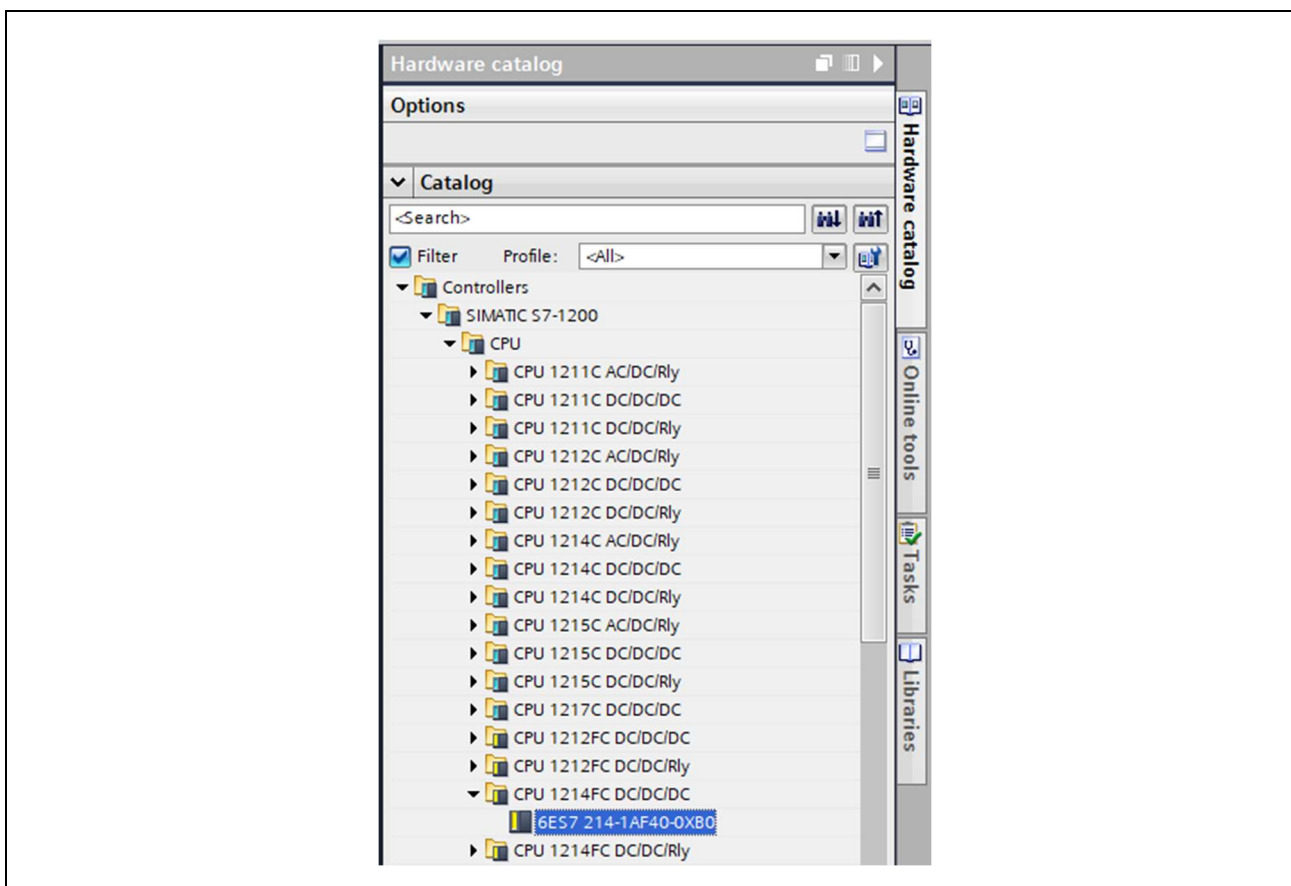


**Step 1** – In the new/existing project open the ‘Devices & networks’ window



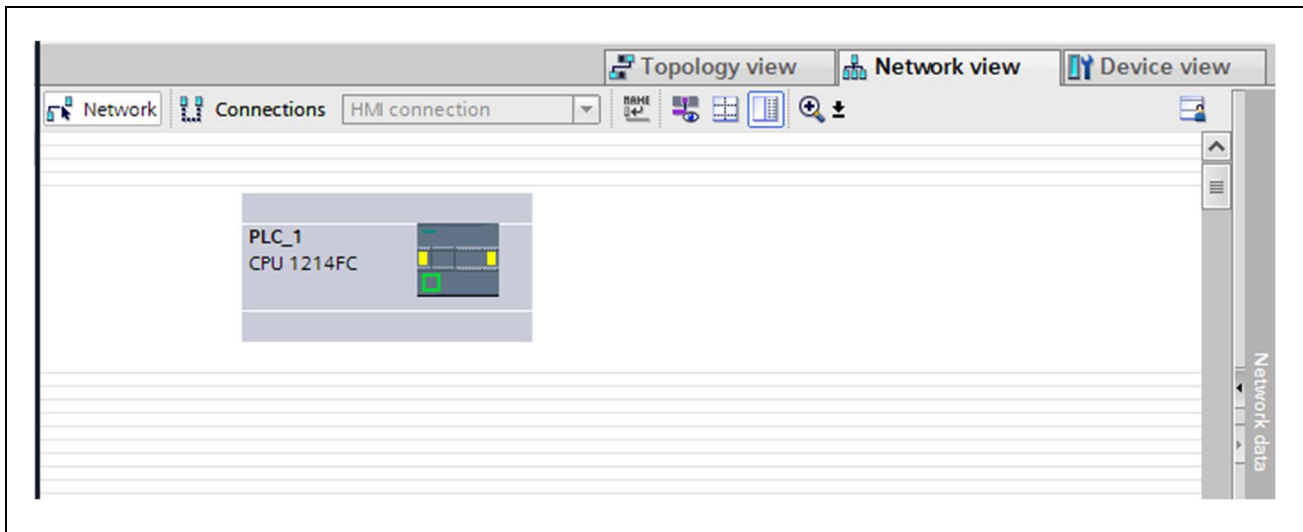
**Step 2** – If not already setup, select the PLC to be used as the PROFINET/PROFISafe Master from the ‘Hardware catalog’.



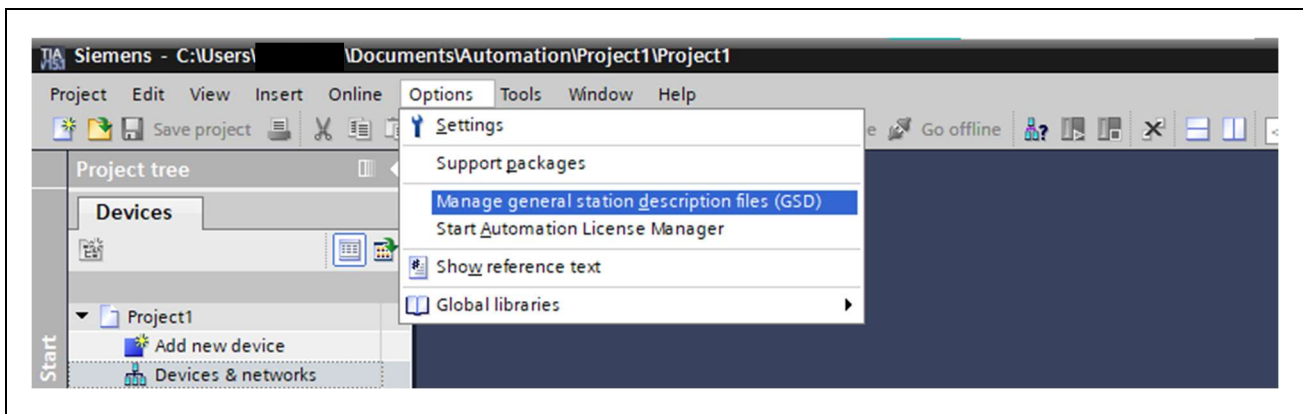
## UGB-NET-PS

### TIA Portal Setup Example

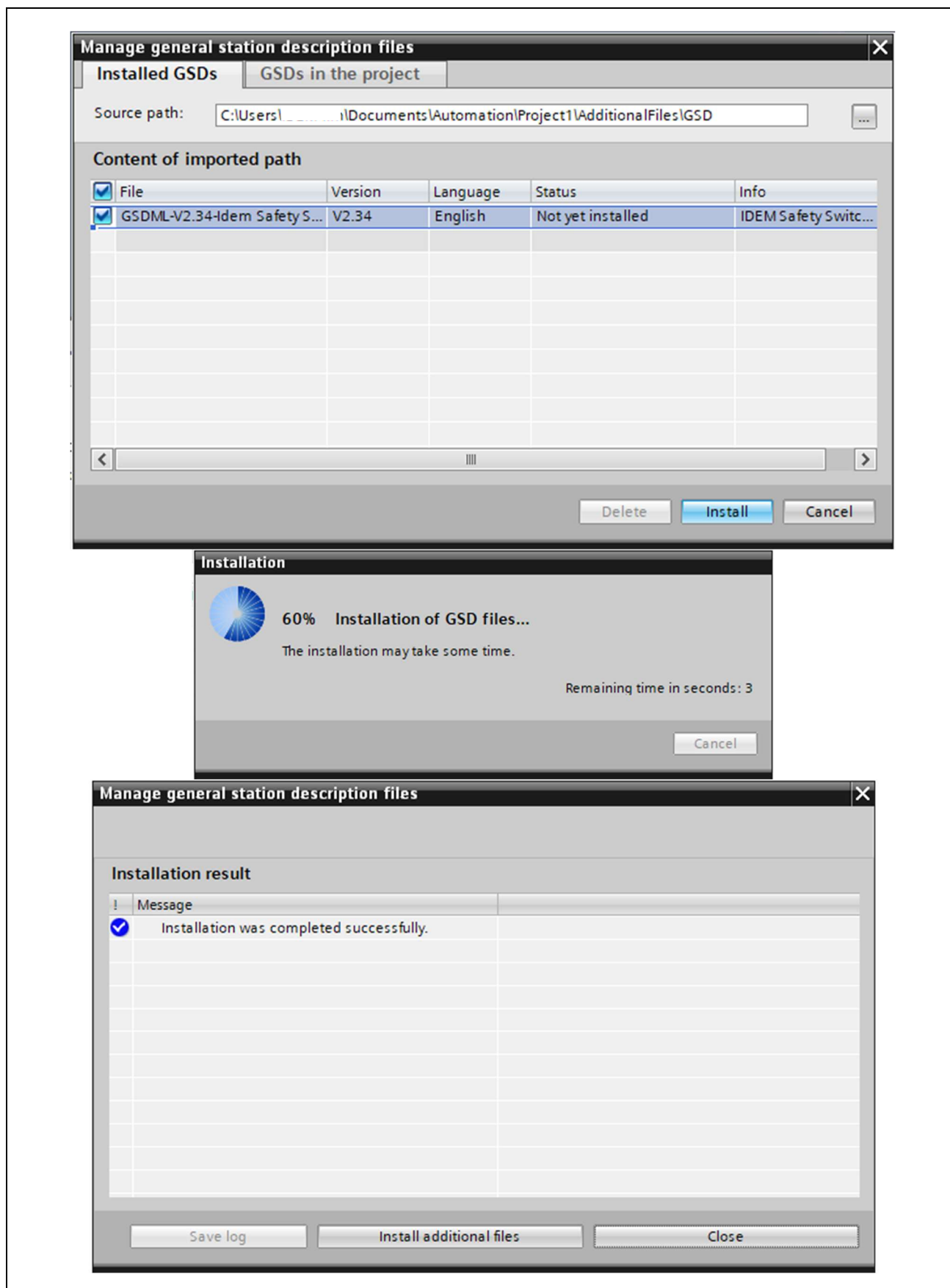
**Step 3** – Drag and drop the PLC into the ‘Network view’ window to add it to the project.



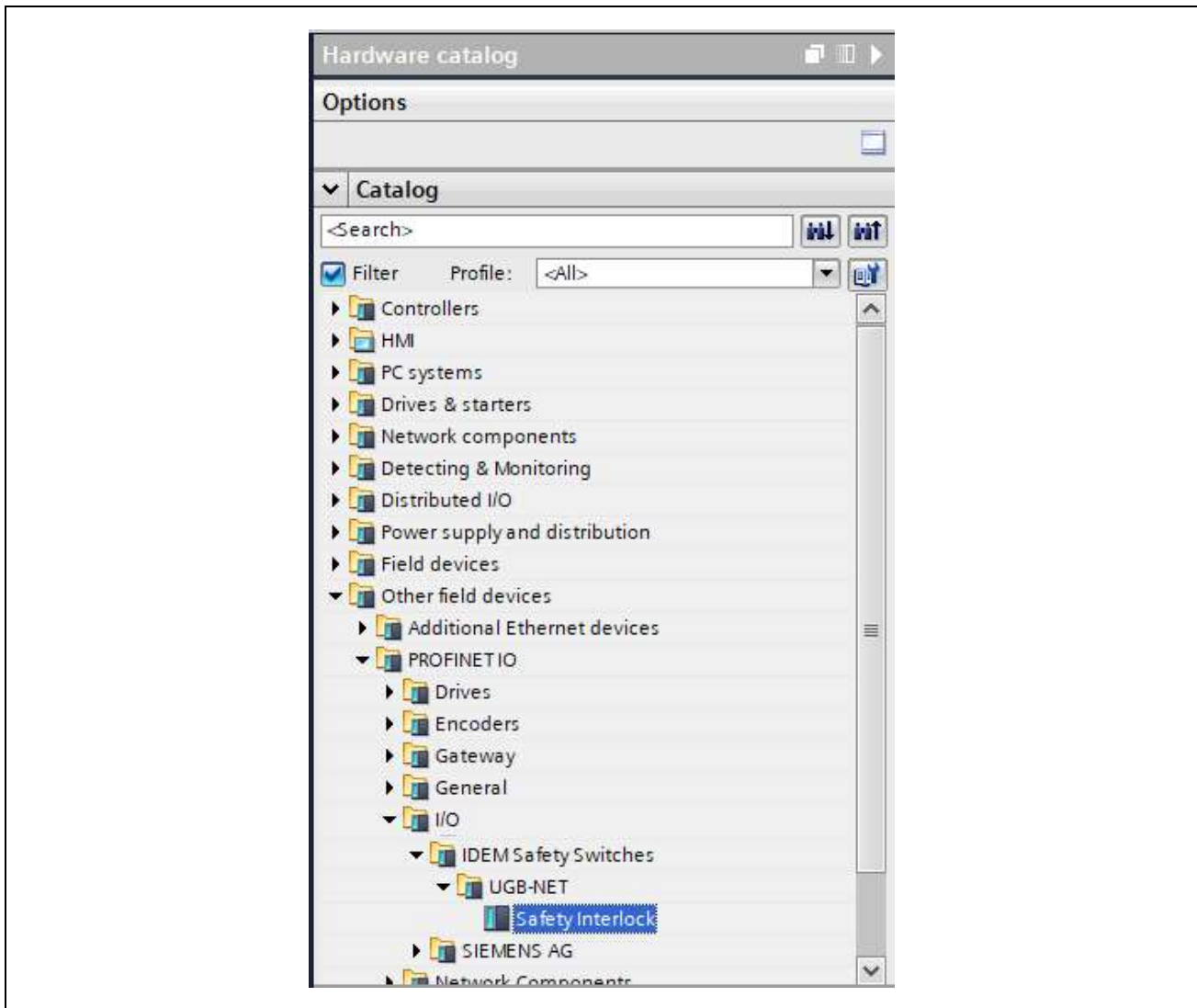
**Step 4** – To install the UGB-NET GSD file first start by clicking ‘Options’ then ‘Manage general station description files (GSD)’.



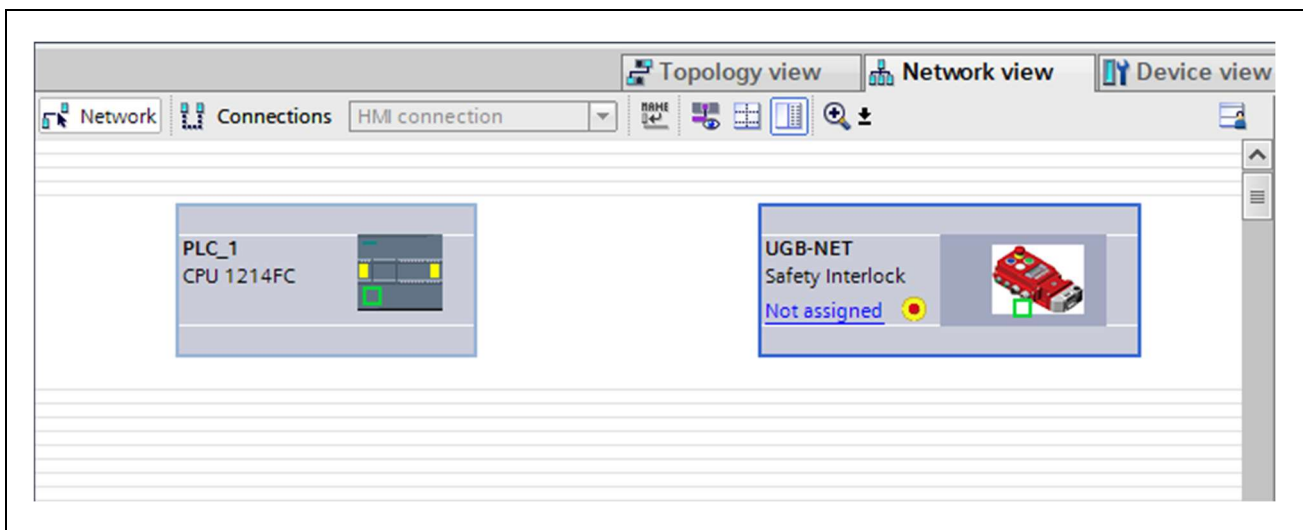
**Step 5** – Find the location of the UGB-NET GSD file on the PC, check the box next to the GSD file and click 'Install'.



**Step 6** – Navigate to the newly added UGB-NET in the 'Hardware catalog'.



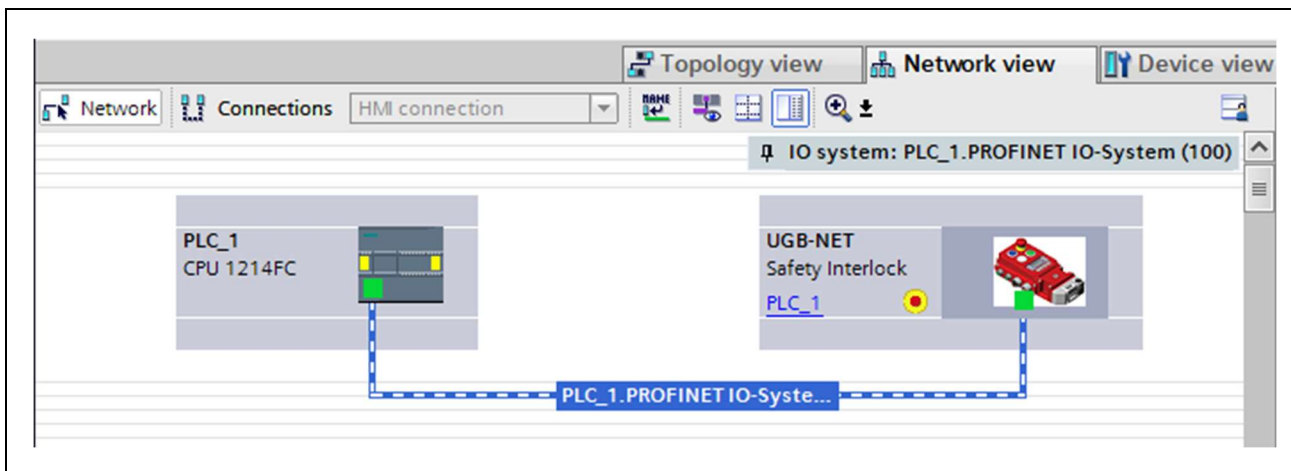
**Step 7** – Drag and drop the UGB-NET onto the 'Network view' window to add it to the Project



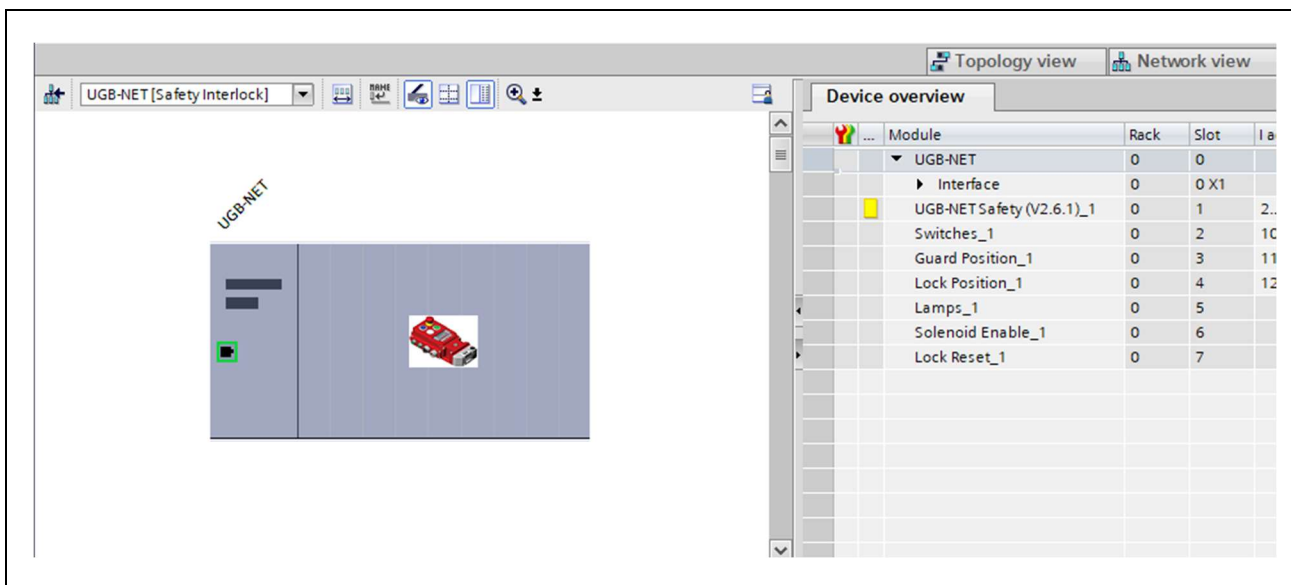
## UGB-NET-PS

### TIA Portal Setup Example

**Step 8** – Create a connection between the devices by clicking and dragging between the green squares on the device icons.



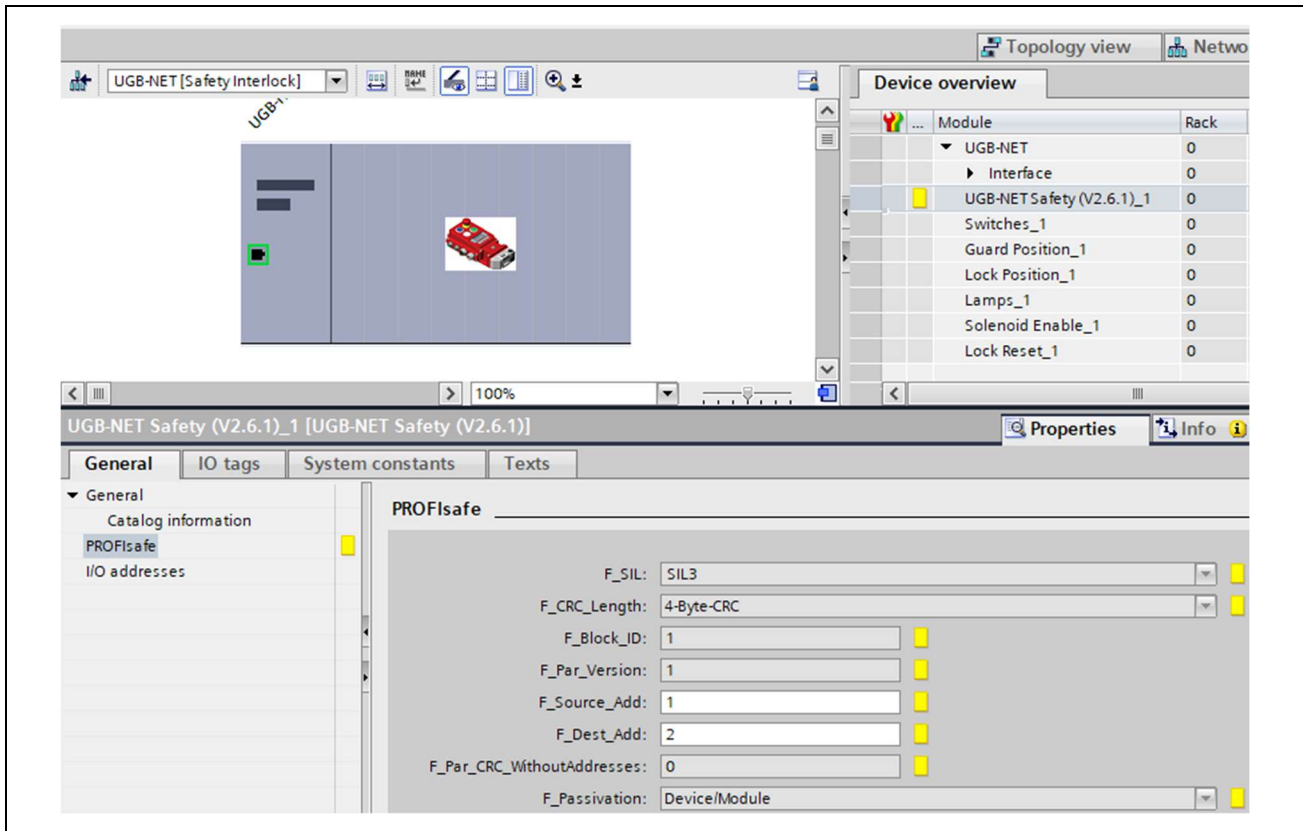
**Step 9** – Double click the UGB-NET Icon to open the 'Device overview' window.



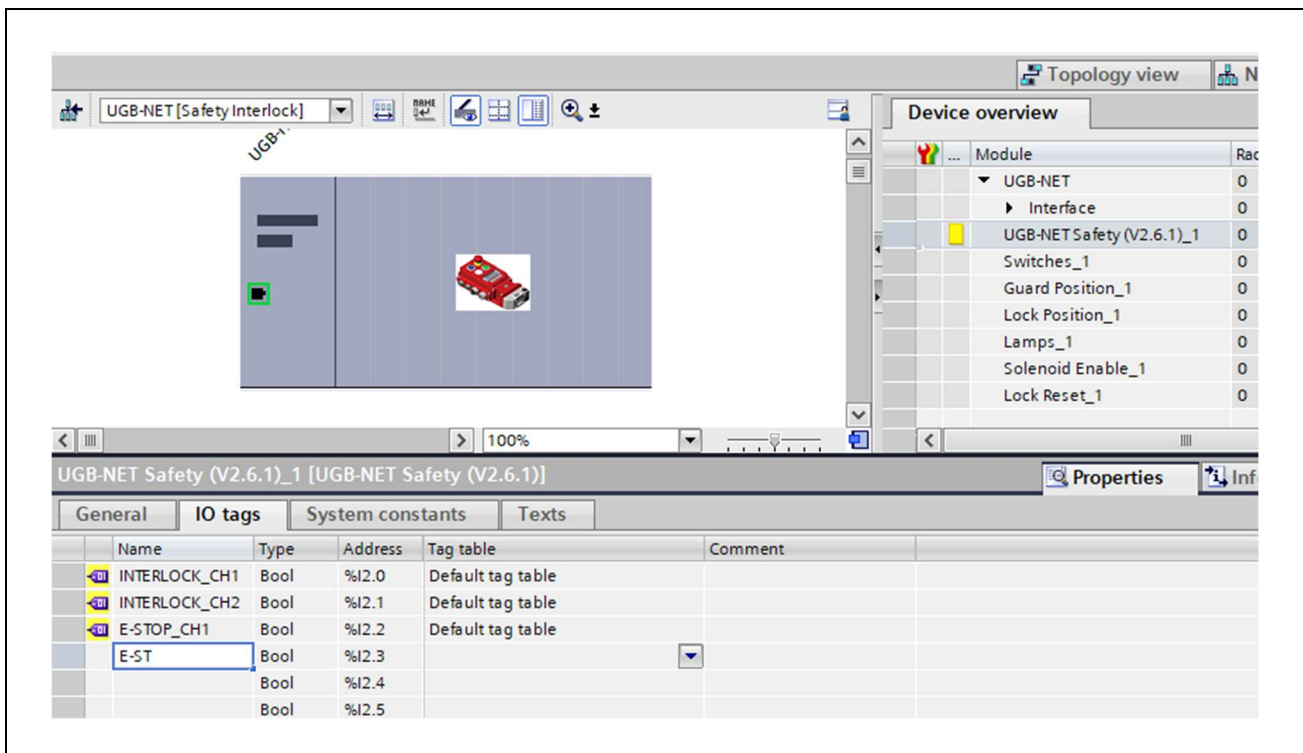
# UGB-NET-PS

## TIA Portal Setup Example

**Step 10** – Click on ‘UGB-NET Safety (V2....)’ from the ‘Device overview’ table to view the properties below. On the ‘General’ tab set the ‘F-Dest-Add’ to the same address as the address DIP switches on the UGB-NET device.



**Step 11** – Click over to the ‘IO tags’ tab and name the IO bits as required (see operating instructions for IO byte/bit mapping).



# UGB-NET-PS

## TIA Portal Setup Example

Step 12 – Continue down the 'Device overview' table to complete naming the IO.

The screenshot shows the Siemens TIA Portal interface. The top part displays a 'Device overview' table for the 'UGB-NET' device. Below it, the 'Lamps\_1 [Lamps]' IO tag table is visible, showing a list of boolean tags with their addresses and default tag tables.

Name	Type	Address	Tag table	Comment
LAMP 1	Bool	%Q10.0	Default tag table	
LAMP 2	Bool	%Q10.1	Default tag table	
LAMP	Bool	%Q10.2		
	Bool	%Q10.3		
	Bool	%Q10.4		
	Bool	%Q10.5		

Step 13 – The named IO can now be used in the PLC program.

The screenshot shows the Siemens TIA Portal interface with a PLC program. The 'Devices' tree on the left shows the project structure. The main window displays a ladder logic network with the following components:

- Network 1: A normally open contact labeled `%I2.0` with the comment `"INTERLOCK_CH1"`.
- Network 1: A normally open contact labeled `%I3.0` with the comment `"Q_INTERLOCK_CH1"`.
- Network 1: A coil labeled `%Q10.0` with the comment `"LAMP 1"`.