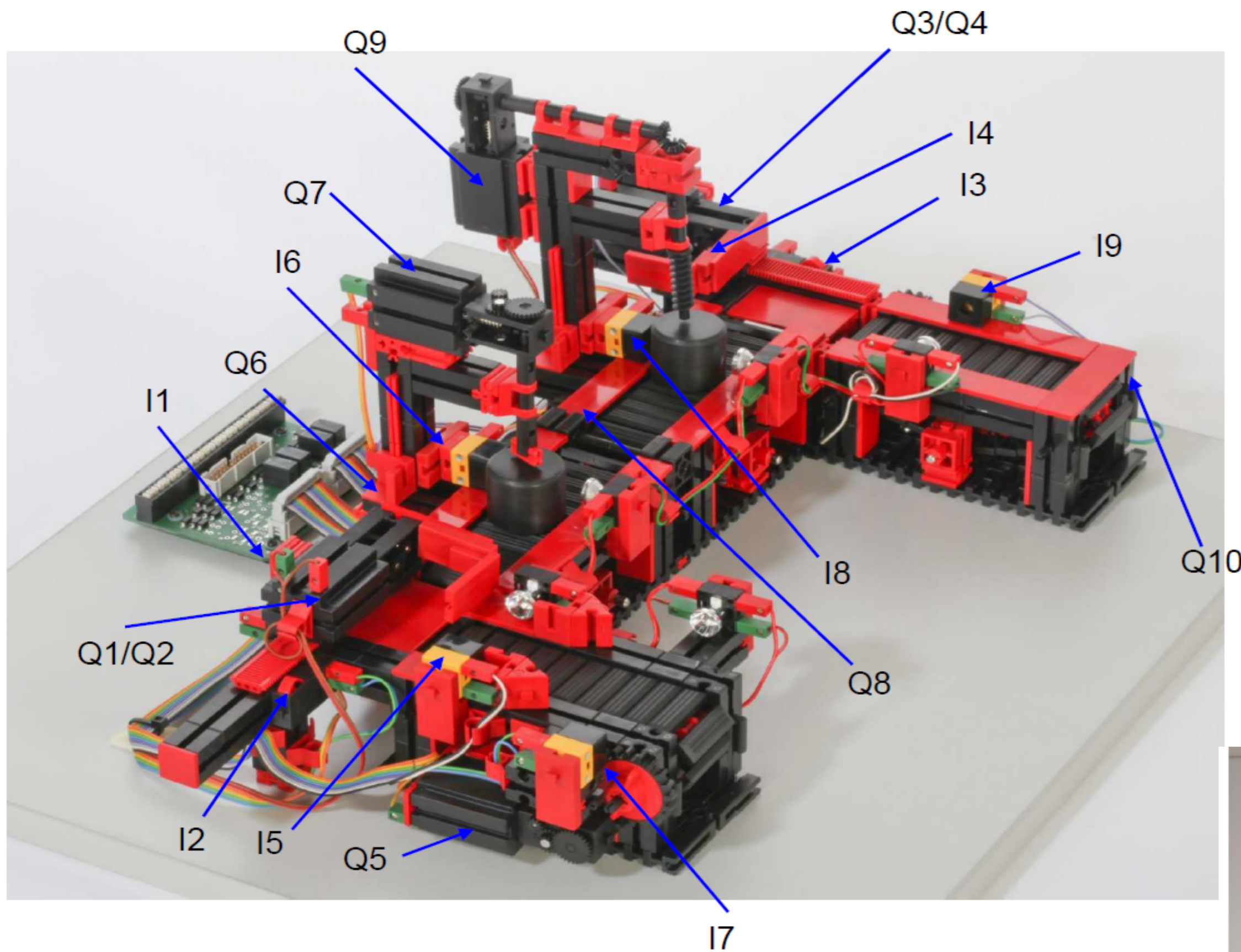


Fischer Technik Assembly-Line Integration with Arrowhead Cloud using OPC-UA

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OVERVIEW

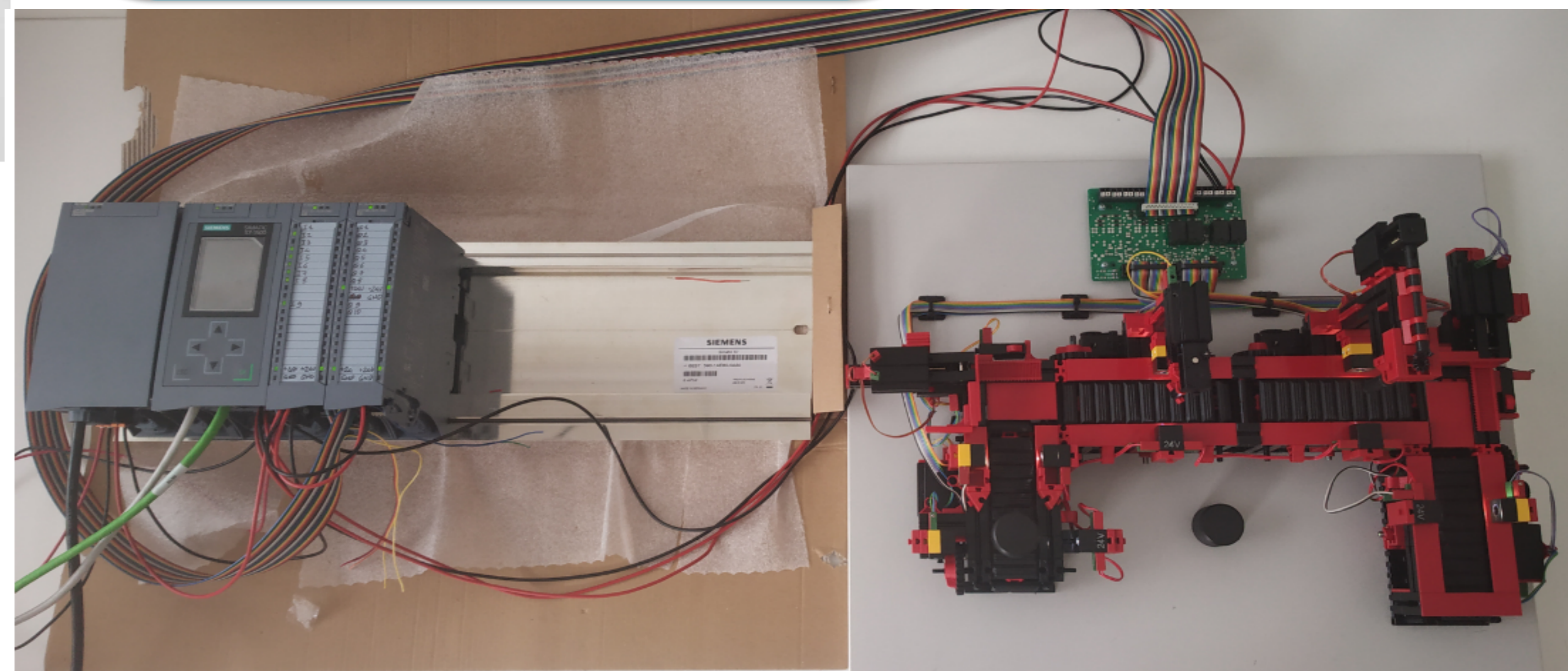
- The purpose is to have a public demonstrator that corroborates the potential of the open source Arrowhead Framework in an Industrial IOT automation setting.
- Automation of the Assembly Line is done in Siemens TIA Portal and the integration with Arrowhead is established through connecting to the inbuilt OPC-UA server in the PLC.

Components

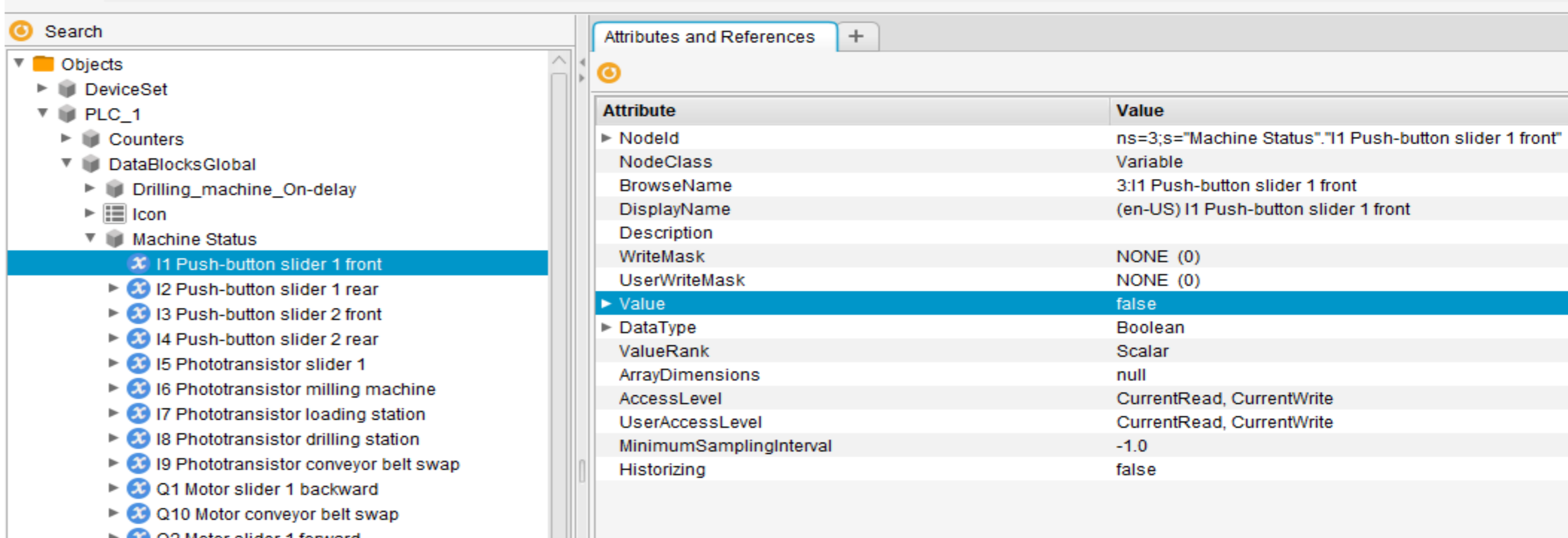
- SIMANTIC S7-1500 PLC
- 5 Photo Transistors
- 4 Switch Buttons
- 4 Conveyor Belts
- 2 Sliders
- 2 Motors

Integration With AHF

- Set Up OPC UA Server Connection and Interaction in AH Cloud.
- Register each Variable node from the OPC-UA server as services in the AH Cloud.
- Consumer can ask for services using meta data such as:
 - ➔ Device
 - ➔ Device Type
 - ➔ Location in the factory
 - ➔ Instance number



Running opc.tcp://192.168.1.1:4840 - urn:SIMATIC.S7-1500.OPC-UA.Application:PLC_1



Further Work!

Logging the signals from the factory components into the DataManager and integration with other assembly line factories.

