Industry 4.0 with OPC UA
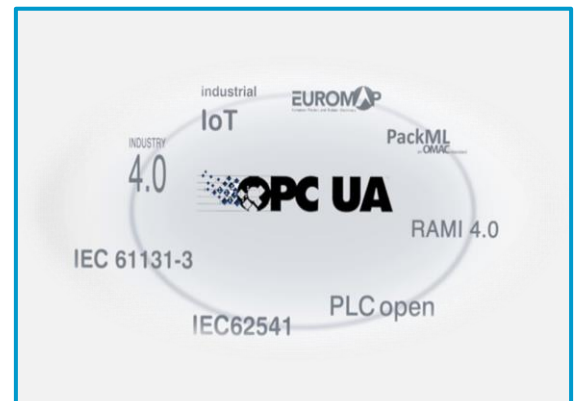
Hardware / Software development for seamless Industrial Communication

Why OPC UA?

In the age of Industry 4.0, Open Platform Communications Unified Architecture (OPC UA) is becoming an industry standard for plant and process automation.

Ever since 2010, the OPC standard has been pushing its way through the embedded world and experiencing its upswing, carried on the wave of networking and new functions arising from it. The scalable technology based on TCP/IP allows for platform-independent, secure and continuous data exchange between Cloud, Fog/Edge, ERP, SCADA, control systems (PLC), sensors and actuators.

As an independent partner, MESCO develops IIoT / Industry 4.0 hardware and software for industrial automation components. We integrate OPC UA technology into sensors, actuators, remote I/O and control systems.

Our Services

- Design and development of hardware and embedded software, fully compliant with IIoT / Industry 4.0 requirements
- Integration of OPC UA interfaces into existing industrial equipment or new developments
- Integration of other standard Industrial Ethernet protocols such as Ethernet/IP, EtherCAT, IO-Link, PROFINET, etc.
- Implementation of device profiles for parameterization
- Gateway development with OPC UA
- Integration of Security Frameworks and Web-Functions

Your Benefits

We develop professional hardware and embedded software for fully compliant IoT components in the fields of measurement technology, power transmission, plant automation and process technology – from concept to product.

Additional Services

- Development of components for Fog/Edge Computing
- Security Hazard Analysis
- Functional Safety Hardware and Software development services