Workshop: Open Edge Computing

Getting Data from the Field to the Cloud
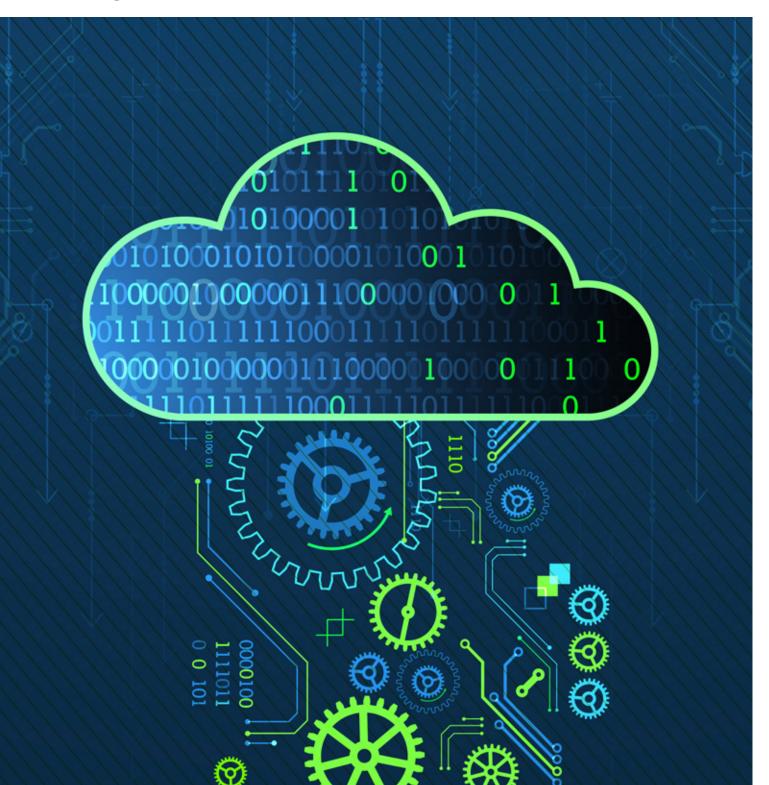
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Open Edge Computing – Workshop (one-day)

Edge computing describes a decentralized system approach in which data is not directly sent to the cloud but is first processed in edge nodes.

Only selected data is sent to the cloud, which ensures a certain level of data sovereignty and data security. Fast and secure decisions can be made in real time due to the lower latency. The filtering of data and the selective online mode also make sure that bandwidth is saved.

Industrial Edge Computing provides a powerful concept that meets the requirements for data sovereignty, security and speed.

Openness, interoperability, data sovereignty and scalability – these are the attributes that the Open Industry 4.0 Alliance stands for.

The Open Edge Computing Workshop from M&M Software introduces you to the concepts of Open Edge Computing. In practical sessions, we show how to easily connect hardware, software components and cloud systems and thus significantly reduce the integration and service effort.

This one-day workshop starts with an introduction to the vision, goals and concepts of the Open Industry 4.0 Alliance and its reference architecture.

In the hands-on portion of the workshop, our Open Edge Computing components will be presented and used. This way, solutions for connecting your devices to the cloud are created easily and within a short time.

Description and Agenda

This 1-day workshop will take place at your premises.

- **Introduction Open Industry 4.0 Alliance**

  - **OI4 in the context of Industry 4.0**
    Vision and goals of the Alliance plus classification in the context of Industry 4.0 including its current status

  - **OI4 Organization**
    Members and structures of the Alliance

  - **OI4 Reference Architecture**
    Concepts, ideas, architecture and reference implementations

- **Hands-on session:**

  - Installation of an Edge gateway

  - Technical tour – Open Edge Computing applications, containers and their interfaces

  - **Example:** ingest telemetry from an OPC-UA or Modbus Server

  - **Example:** forward telemetry to the Cloud (or on premises)

  - **Example:** visualize telemetry into the Cloud

- **Wrap up, conclusion and expectation check**

Workshop Benefits

The Open Edge Computing Workshop from M&M Software

- You will have a solid understanding of the Open Industry 4.0 Alliance and Open Edge Computing in particular.

- You will have an executable deployment and a configured Edge Device.

- You will be able to transfer data from your OPC UA or Modbus TCP server to the Cloud

- This setup will be usable as a basis for discussion or demonstration to prepare your own development.

Reasons for M&M Software

M&M Software is an international software and digitalization partner.

We accompany companies in the digital transformation of their organizations, products and business models. We identify potential, generate ideas, derive strategies and develop tailor-made software solutions for the digital world.

The results of our trusting and cooperative collaboration are digital products or systems that are successful on the market and that we accompany throughout their entire life cycle.

We consult and implement at eye level and in close coordination with our customers. In this way, we create new business opportunities and secure competitive advantages. Our global teams work closely with partners in research, academia, and industry.

We turn visions for a digital world into reality.

M&M Software offers more than 35 years of experience and state-of-the-art technical know-how. Our almost 300 highly motivated employees at four locations across the globe are the main success factor of our projects. Together we drive the digital future.

>35 years of experience

100 % team spirit

almost **300** employees

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