**TESTBED EDGE CONFIGURATION**

Application for the manufacturing industry

**SUMMARY**

Open, neutral, pre-competitive testbed for standardization of configuration of edge and field devices using a device management system. A total of 18 partners are collaborating to develop and validate a future standard. The basis for this work is the Standardization Roadmap for Industry 4.0.

**CURRENT SITUATION**

According to the Industrial Internet Reference Architecture, the following documents are to be issued: usage, functional and implementation view, which then serve as input for the appropriate standardization organizations. The testbed will also organize plugfests in future, where the partners will bring together the solutions they have developed independently and test them for compatibility. The BMWi Industry 4.0 Competence Center in Augsburg is the host for the testbed and provides a production hall and full technical equipment to support implementation.

**PROJECT DESCRIPTION**

The aim of the testbed is to develop and validate a proposal for standardization of configuration of edge and field devices. An edge device is normally connected both with the OT and with the IT network. The resulting OT/IT interface is the basis for the work. The separation of physical edge devices and logical functionalities is considered in the testbed. Solutions from different vendors are tested. The testbed does not deal with the field of edge computing.

**SOLUTION**

The configuration of edge entities is described first in a usage view and then in a functional view. Here, the testbed takes account of the activities in ISO IEC TR 30164.

**INDUSTRY 4.0 FEATURES**

To simplify configuration of edge and field devices, standardization of configuration is an effective approach, so that certain “lock-in” effects can also be avoided.

**PARTNERS**

Dr. Dominik Rohrmus
Labs Network Industrie 4.0 e.V.
dominik.rohrmus@siemens.com

**STANDARDIZATION APPROACHES**

The testbed complies with ISO IEC TR 30164 and will jointly drive forward new standards for the configuration of edge and field devices.