



Augsburg (visitable at short notice)

## TESTBED EDGE MANAGEMENT

Application for the manufacturing industry

### SUMMARY

Open, neutral, pre-competitive, ministerial financed testbed for the standardization of the management of edge and field devices using a device management system. A total of 26 partners are collaborating and develop and validate a future standard. The basis for this work is the Standardization Roadmap for Industry 4.0.

### CURRENT SITUATION

Following the Industrial Internet Reference Architecture, the following documents will be created: business, usage, functional, and implementation view, which serve as input for the appropriate standardization organizations. The testbed will also test the implementation view, where the partners involved bring together their independently developed solutions and check for compatibility. The BMWi Industry 4.0 Competence Center Augsburg is the host of the testbed and provides a factory hall as well as all the technical equipment for implementation.

### PROJECT DESCRIPTION

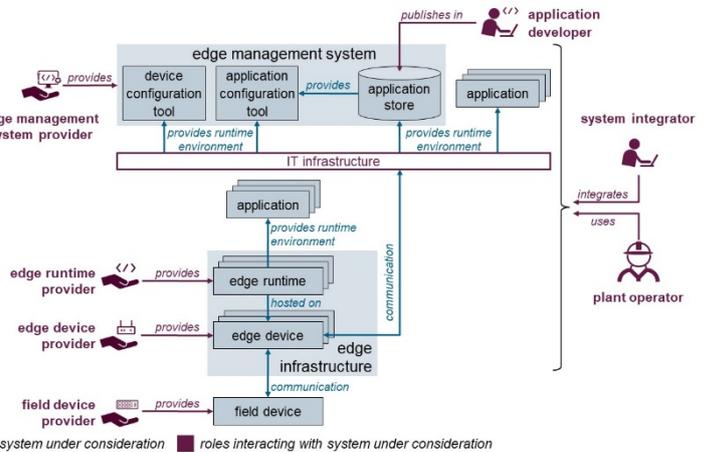
The aim of the testbed is to develop and validate a proposal for the standardization of the management of edge and field devices. The testbed does document work and only then does testing. An edge device is usually connected to both the OT (Operational Technology) and the IT network. The separation of physical edge devices and logical functionalities is taken into account in the testbed. Solutions from different manufacturers are tested. The testbed focuses on the configuration. It does not standardize the actual edge computing.

### SOLUTION

The management of edge entities is described first in a usage view and then in a functional view. Here, the testbed takes –among others- 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



### CONTACT

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### STANDARDIZATION APPROACHES

Business and Functional View documents are published here:  
<https://www.plattform-i40.de/PI40/Navigation/EN/Home/home.html>