



Hannover (visitable at short notice)

# TESTBED ASSET ADMINISTRATION SHELL

Application for the manufacturing industry

## SUMMARY

Open, neutral, pre-competitive international testbed the testing and standardization validation of the Asset Administration Shell (AAS). A total of 35 partners with a focus on SME are collaborating and validate the future AAS standards. The basis for this work is the Standardization Roadmap for Industry 4.0.

## CURRENT SITUATION

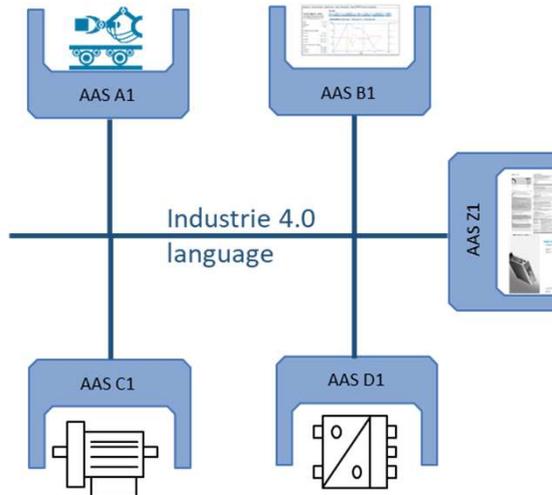
Together with the Deutsche Messe Technology Academy the AAS testbed orchestrates SME use cases in terms of their interoperability challenges. The key aspects validated and tested are: Validation of the AAS software packages, validation and support of the IEC TC65 activities, interoperability among all assets at as little cost as possible, digital twin. Beside interoperability the connectivity with 5G is of high importance. This is given by the 5G campus network of the Deutsche Messe. The BMWi Industry 4.0 Competence Center in Hannover is the host for the testbed and provides support for implementation.

## PROJECT DESCRIPTION

The SME use cases selected for the AAS testbed focus on engineering as well as system integration and business excellence. The demonstrator will validate AAS sub-models with pro-active outside representations. The standardization validation and support is enabled by the existing LNI 4.0 liaison contracts with IEC and IEEE. The 5G campus network offers the connectivity backbone. It will have a AAS representation in cooperation with the 5G-ACIA. The education and up-skilling in the Kompetenzzentrum 4.0 is of high importance.

## SOLUTION

The AAS demonstrator will integrate several domains. It will include OT hardware and IT as well as OT related software, which is completely interoperating based on AAS:



## PARTNERS



## CONTACT

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

## INDUSTRY 4.0 FEATURES

The Administration Shell is the implementation of the „Digital Twin“ for Industrie 4.0

## STANDARDIZATION APPROACHES

IEC PAS 63088, IEC TC 65 WG 23 & WG24 Asset Administration Shell for Industrial Applications, IEC 62832, ISO/IEC JTC 1 AG 11, <https://github.com/admin-shell/aasx-package-explorer>