The Asset Administration Shell (AAS) in action

AAS Guide
SPS 2022

AAS @ Technology Stage
powered by VDMA/ZVEI
(Hall 3, Booth 451)

TUE 08.11.
9:40 – 10:25
ZVEI-Show-Case PCF@Control Cabinet – The DPP4.0 as an Industry-Ready Concept for the Digital Product Passport
Prof. Dr.-Ing. Dieter Wegener, Siemens AG

12:15 – 13:00
ECLASS Sensors Group - Standardized descriptions of sensors pave the way to the digital twin
Benedikt Rauscher, Pepperl + Fuchs; Josef Schmelter, Phoenix Contact

WED 09.11.
13:30 – 13:55
Simply create digital twins for Industry 4.0 with open source
Andreas Gramsch, Phoenix Contact

15:30 – 16:00
IoT Use Case Energy Monitoring: Sustainable with the Digital Twin
Dr. Dirk Thieme, Volkswagen; Meik Billmann, Industrial Digital Twin Association (IDTA); Madeleine Mickeleit, IoT Use Case

THU 10.11.
11:10 – 11:40
The Digital Nameplate - Designing the Digital Twin Made Easy
Roland Dunker, R. STAHL

TUE 08.11.
16:15 – 16:35
Der AAS Online Generator: schnell und einfach AAS bauen
Thorsten Kröse, BOB®
AAS exhibits
Hall 3 Booth 460
Hall 4 Booth 221

Integration of Robots and Motors in Maintenance Systems via AAS
Motors and Robots need Service Requests to an ERP Service System via AAS.

AAS networked
The project „VRS networked“ within the actively interoperability tests AAS in various use cases:
In addition to a testbed, a demonstrator is being created that shows „Production as a service“ in a cross-company scenario.

Power Drive System 4.0
Large demonstrator with 8 electrical power drive systems, which are coupled via AAS and exchange information. The digital name plate with additional data for electric drives is implemented, as well as a sub model „oscilloscope“ and „reference point“ for condition monitoring.

Create your Digital Nameplate
Create your Digital Nameplate in one simple step by scanning regular nameplate or a business card.

Mnestix – Standardized AAS
Mnestix is the software solution to create and manage AAS for your processes or products and to provide their information to devices or via interfaces. The Mnestix Viewer makes it easy to show all relevant AAS information on various devices.

AAS for Drive Systems
The benefits of the AAS can be experienced in various use cases, such as data acquisition during production for Galaxie® drives, IoT connectivity through the integrated OPC UA server for cyber® simcs™ drive or controllers or the interaction with smart services for cygnaps™ gearboxes.

AAS goes AR: Easy visualization with augmented reality
Display basic information and submodel details in an enhanced way, to demonstrate practical approach of AAS visualization.

ECLASS Advanced and AAS Submodel Templates
In addition to cross-enterprise process data management and the application in engineering tools, with Release 13.0 the ECLASS Standard has extended its data model with new content for the creation of AAS Submodels which enables users to describe an AAS in the ECLASS Standard as a Submodel.

Class.In Software for AAS
AAS file generation for using ECLASS.

BCON® AAS Generator
BCON® has developed the first AAS Generator that natively supports ECLASS. Germany’s AAS direct interface to the ECLASS Standard and describes your assets directly in your browser. The data can than be provided directly via the AAS API.

Machine Factory Stuttgart - The model-driven factory of the Future
Using the AAS as a holistic information exchange system for the organization and operation of adaptive production.

AAS on Microsoft Azure
Digital solutions for a smart connected world with the latest technologies, a lot of know-how and passion.

AAS Hub research project
Experts demonstrate how CONTACT Elements for IoT drives the consistent automation of processes. New requirements for quality, sustainability and security can be addressed faster and more flexible.

Lenze Digital Twin - The Future Central Hub of a Machine
With the generic architecture, information from machines and components for a wide variety of applications is available to OEMs and operators. This cross manufacturer information models are integrated automatically into various systems. One example here is asset management.

Digital Twins of Components in Mechatronic Designs
Integration of the AAS Explorer and the AAS Repository in the cloud for easy cross manufacturer exchange of Digital Twins in mechatronic development.

From Acquisition to Cloud-based Data Management
Applying AAS as use sensor data from the shop floor for cloud-based performance analysis with the help of the Industrial Edge and the Industrial Information Hub.