



Augsburg (visitable at short notice)

TESTBED OPC UA VDMA COMPANION SPECIFICATIONS

Application for the manufacturing industry

SUMMARY

Open, neutral, pre-competitive, ministerial financed testbed to test the VDMA OPC UA companion specifications. The draft versions of the different VDMA professional bodies are at different stages, up to the release candidate level. Nine SMEs of a total of 20 partners are involved in joint testing. The OPC VDMA companion specifications can be used as sub-models of the asset administration shell.

CURRENT SITUATION

OPC UA is the common foundation for vendor-neutral testing of different companion specifications. A plugfest means that all testbed partners can regularly try out their solutions among themselves. The University of Applied Sciences Ravensburg-Weingarten, Faculty Mechanical Engineering, hosts the testbed and provides a factory hall and all the technical facilities needed to implement the use cases.

PROJECT DESCRIPTION

Companion specifications in robotics, image processing, the packaging industry and further more, and MES, ERP and cloud systems are all tested. The aim is to validate them and thereby support international standardization. For this, solutions from different manufacturers are tested with OPC UA client/server and in future pub sub.

SOLUTION

The OPC UA VDMA companion specifications are information models that are developed on a vendor-neutral basis in the VDMA and VDW professional associations.

INDUSTRY 4.0 FEATURES

The companion specifications can be used as partial models in administration shells. Industry 4.0 interoperability is implemented.



PARTNERS



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STANDARDIZATION APPROACHES

The transfer of companion specifications to IEC standards is being promoted jointly with the OPC Foundation.