



VIRTUAL COMMISSIONING & SIMULATION OF THIRD-PARTY COMPONENTS IN SYSTEMS ENGINEERING

Virtualizing and simulating the behavior and characteristics of industrial systems has a huge potential to improve engineering and commissioning efficiencies. To leverage this potential, component vendors need to share their knowledge of the component's characteristics in exchangeable simulation packages. The AAS can contribute to an efficient exchange of the simulation models along with detailed descriptions and references to other AAS submodels.



USE CASE LEAD

FESTO

MOTIVATION

The possibility to test quantitatively in early phases of the design as well as to carry out multiple stages of the commissioning of a system in the virtual space can have many advantages compared to classic engineering and commissioning approaches. Standardized formats of simulation models like FMI help to exchange the simulation models of components and system among different stakeholders.

THE ROLE OF THE OI4

Project coordination among various member companies is streamlined by utilizing the infrastructure provided by the alliance, ensuring effective collaboration. Additionally, support is available within a community of AAS experts, fostering knowledge sharing and expert guidance.

VALUE PROPOSITION

The efficient exchange of simulation models in combination with detailed descriptions on how to use them, enables virtual engineering and commissioning. Allowing to optimize the engineering and commissioning processes significantly.

AAS SUBMODELS USED

DIGITAL NAMEPLATE / HANDOVER DOCUMENTATION / SIMULATION MODELS