PRACTICAL TESTING OF THE CONCEPTS OF THE INTERNATIONAL DATA SPACE RESEARCH PROJECT

Application for the manufacturing industry

SUMMARY

Practical testing of the concepts of the International Data Space research project by implementing cloud-to-cloud communication following the reference architecture for connectors of the International Data Space.

PARTNERS

INTERNATIONAL DATA SPACES ASSOCIATION

CURRENT SITUATION

The International Data Space research project and the related International Data Space Association develop concepts and reference architectures for a future data economy with a focus on ensuring the data sovereignty of participating companies. To be better able to evaluate these concepts, a practical implementation using a real-life example from the manufacturing industry was initiated.

SOLUTION

Using the concepts and reference implementations of the International Data Space, a scenario was developed and implemented following the reference architecture for International Data Space connectors. When designing the scenario, one focus was to illustrate the economic drivers of the stakeholders within the context of a data economy.

PROJECT DESCRIPTION

- Initial Siemens workshop with the International Data Space Association to agree on a targeted scenario
- Various workshops of participating companies and the International Data Space
  - Identify a scenario within the context of a future data economy which will explain the business objectives of the business roles
  - Discuss the concepts and reference implementations made available by International Data Space
- Implementation of the scenario and the concepts including expansion or modification of the Industry 4.0 demonstrator by the evosoft test center
- Presentation of results at the 2017 SPS IPC Drives

REFERENCES


CONTACT

Dr. Ulrich Löwen
Siemens AG
ulrich.loewen@siemens.com

INDUSTRY 4.0 FEATURES

Validation of the International Data Space concepts

STANDARDIZATION APPROACHES

The following standards are used: The implementation uses the reference architecture of International Data Space.