

# IntraDataspace

An architecture for a company-internal Dataspace

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#### Introduction

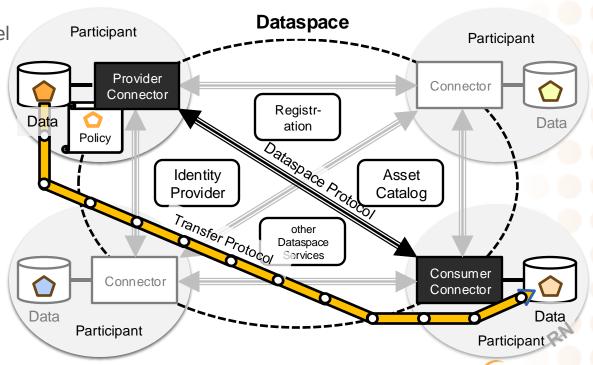
- Myself
  - Jan Peter Meyer
  - Computer Science, M.Sc.
  - Researcher at Fraunhofer ISST
- Fraunhofer Institute for Software and Systems Engineering
  - Founding Member of Dataspaces
  - Activities
    - Contribute to the Open-Source Eclipse Dataspace Components (EDC) Project
    - Contribute to the Eclipse Dataspace Protocol (DSP)
- IAV GmbH
  - Engineering Company in the automobile sector
  - Around 1000 projects per year
  - 7.600 employees
  - 26 locations



#### Introduction

#### Dataspaces

- Data-Sharing on Company Level
- Creating Trust in a Dataspace
  - Self-Sovereign Identities (SSI)
- Policies
  - Access Policy
  - Usage Policy

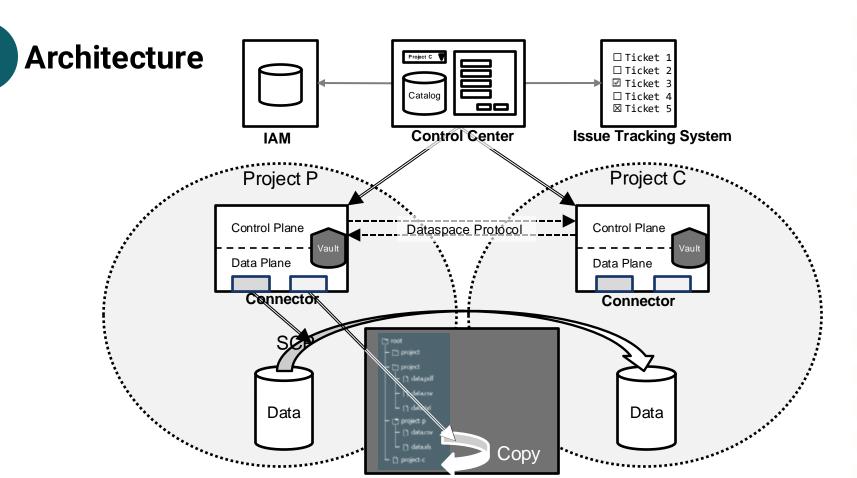


### **Use Case**

- IAV has a thick of data which is not manageable by humans
  - Reuse and further utilization of data present a significant opportunity to achieve better results and reduce redundant work
- Identities within the dataspace follow a project-based approach
  - Data is generated within projects and is therefore associated with them
  - There are contracts and regulations that specify how data can be used and reused in specific projects

#### **Architecture - Goals**

- Usage of Dataspace Principles and Technologies
  - Usage of Eclipse Dataspace Components
- Integrate the existing IT infrastructure
- Create a user experience that is as simple and data-centric as possible
  - Increase data discoverability



## **Architecture - Key Facts**

- Integration of the company's Identity and Access Management (IAM)
  - User-based roles depending on their assigned projects
- The identity of a connector corresponds to a specific existing project
- Implementation of a centralized data catalog
  - All and only employees are allowed to know about every Datasets
  - No Access Policy evaluation by connectors
- Inside a IntraDataspace trust is existing by nature

# **Next steps**

- Improve project Scaling in the architecture
- Integration in Company-to-Company Dataspaces

