The IDS provides self-determined control between all imaginable data endpoints.

A network of trusted entities in the data economy requires a mechanism for digital entities, that can reliably identify a participant and can provide more information on transaction partners. Additional information must be updated regularly and be provided in a trusted manner.

**Certification**

- International Standards: ISA defines the basic conditions and governance for a reference architecture and interfaces.
- Use Cases: This standard is actively developed and updated on the basis of use cases.

**App Stores**

- Apps may be certified by IDS-approved aggregations or analytics on the data. Data aggregations that can be deployed in IDS Connectors need to be certified by the evaluation body that provides the certification.

**Data Providers**

- Data Providers can search for data and use the data of different data providers. Data Consumers are bound to the usage policy of the Data Provider.

**Identity Provider**

- Identity Providers are responsible for ensuring identity management and usage control. They allow the participants to identify and authenticate trust in the IDS ecosystem.

**Broker**

- Brokers register the description of their data endpoints and their ISV’s. IDS Broker Trust providers can look up available data sources and data in terms of their identity information of and for IDS participants, regardless under which of the above roles they operate.

**Data Consumer**

- Data Consumers can search for data and use the data of different data providers. Data Consumers are bound to the usage policy of the Data Provider.

**Vocabulary Providers**

- Vocabulary Providers manage and offer specific vocabularies and their reference to the IDS Information Model, which is the basis for the description of data sources.

**Broader Use Cases**

- Use cases, smart services …
- Vocabulary providers provide specific vocabularies and their reference to the IDS Information Model, which is the basis for the description of data sources.

**Certification**

- Certification is an important aspect of the IDS architecture and interfaces.

**Call to Action**

- Become a member in the International Data Spaces Association.

**References**

- Additional requirements are fed into the architecture development.
- Smart Services are developed and deployed in the Data Owner and Data Consumers to exploit the IDS.

**Communities**

- Internet and user groups of same or similar domains with common challenges validate and promote the IDS approach, technology and ecosystem. Based on their practical experience the IDS reference architecture and the ecosystem around it are continuously developed. Thus, specific application scenarios for verticals are set up, implemented and systematically pushed forward, allowing participants to enhance existing or to launch new services.

**USE CASES:**

- Services and functionalities of the IDS are specified in use cases.
- The IDS approach is applied and tested in pilots.

**INTERNATIONAL DATA SPACES APPROACH**

- Endless Connectivity: Standard for data flows between all kinds of data endpoints.
- Trust between different security domains:
  - Comprehensive and audit-proof security functions providing a maximum level of trust.
  - Governance for the data economy.
  - Usage control and enforcement for data flows and assignments of data.

**CLEARING HOUSE**

- Intermediary providing clearing and settlement services for all financial and data exchange transactions within the IDS.

**USE CASES COMMUNITIES**

- Medical Health, Building/ Insurance, Short DNA.

**META DATA FLOW**

- Metadata flow: Additional information must be updated regularly and be provided in a trusted manner.

**MISSON STATEMENT**

- Secure Data Exchange:
  - 3 forms the basis for a variety of certifiable software solutions, smart services …

**DIGITAL IDENTITIES**

- A network of trusted entities in the data economy requires a mechanism for digital entities, that can reliably identify a participant and can provide more information on transaction partners. Additional information must be updated regularly and be provided in a trusted manner.

**INTERNATIONAL DATA SPACES ASSOCIATION**

- A TRUSTWORTHY ARCHITECTURE FOR THE DATA ECONOMY

- The IDS provides self-determined control between all imaginable data endpoints.

**CALL TO ACTION**

- Become a member in the International Data Spaces Association.