CATENA-X RELEASE DAY
GET TO KNOW THE CATENA-X RELEASES

ARENA 2036
Data Exchange with Self-Sovereign-Identity

Julia Jeroch
BMW Group
Release Video: Take Control of Your Data: Using Self-Sovereign Identity for your cross-company Data Exchange via connectors and company identity wallets.

Here on the Catena-X YouTube channel: https://youtu.be/8JnGbCWIJZk
Catena-X Release Day
Data Exchange with Self-Sovereign-Identity
 Credential management - Users can manage their credentials at any time, including credentials issued by various authorities.

 Standardized interfaces - Standardized interfaces enable multiple wallet providers to offer wallet solutions, ensuring interoperability and ease of use for users.

 Bring-your-own-wallet - first steps towards implementing a bring-your-own-wallet feature, which will allow users to bring their own wallet and seamlessly integrate it with our services.

 FOSS wallet for testing and exploration - include features such as issuer and customer tenants, signing capabilities, revocation services, and expiry management.
Clear and organized presentation of information of credentials

Seamless user experience: The UI prioritizes a seamless user experience, allowing users to manage their credentials and perform actions quickly and efficiently.

**Functional Details**

- New credentials will get seamlessly added as soon as credential schema is similar
- Authority details planned

**Technical Details**

- Currently direct connection to the holder wallet – switch to issuer component under validation
Request a new credential

Issuer

Issuer Component

1) Send Credential

2) Respond with Verified Credential

3) Store Verified Credential

Wallet

Issuer

Customer

The Issuer Component

- **FOSS Issuer Component release:** The FOSS Issuer Component gets released with 24.05.

- **Setting standards for multi-issuer capabilities:** Standards are being established to ensure the ability to have multiple issuers.

**Key Features**

- **Credential issuance** - enables the creation and issuance of digital credentials to companies

- **Customizable credential templates** - supports the creation of customizable credential templates

- **Credential revocation** - revocation service is provided to revoke issued credentials in case of any changes or invalidation.

- **Expiry management** - Issuers can set an expiration date for the credentials, ensuring their validity for a specific period of time.
EDC & the Dataspace Protocol

- **TractusX-EDC release**: The FOSS TX-EDC gets released with 24.05.

- **Setting standards for Data Exchange**: The TX-EDC is based on the Dataspace Protocol as well as the Identity and Trust Protocol, maintained by the Eclipse Dataspace Working group.

The Dataspace Protocol is a set of specifications created to enable data exchange between different legal entities. The specifications describe how entities can share data, negotiate Agreements, and use data within a dataspace.
Dataspace

1) EDC requests

2) DSP Request (i.e. GET Catalogue) using Token in the Header

3) Request necessary VPs using Token from (2) – all at once

4) Validates Token with Signature

5) Responds with VPs in Response Body

6) Provider Validates VPs (add Steps...)

7) DSP HTTP Response (i.e. with Catalogue)

IATP Presentation Flow

- **TractusX-EDC release:** The FOSS TX-EDC was released on 24.05.

- **Setting standards for Data Exchange:** The TX-EDC is based on the DSP* as well as the IATP*, maintained by the Eclipse Dataspace Working group.

- Provides a mechanism ("Identity System") for Catena-X members to securely communicate and validate credentials that enables interoperable access to privileged data using the DSP* Specifications in a way that preserves privacy and limits the possibility of network disruption

- Make it possible for independent software solutions to implement these specifications and interoperate on the Catena-X network

OpCo

Wallet

Secure Token Service

Partner 1

Partner 2

Connector

Connector

- DSP – Dataspace Protocol
- IATP – Identity and Trust Protocol

Catena-X Release Day
See recording of the live stream on Catena-X YouTube
https://www.youtube.com/watch?v=s_uo7vfk6k (starting at 01:44:40)