SECOND
ECLIPSE TRACTUS-X COMMUNITY DAYS

16. – 17.05.2024
STUTTGART

Tractus-X

Catena-X
Automotive Network

ARENA2036

ECLIPSE®
FOUNDATION

SUPPORTED BY:

Cofinity-X

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IDTA

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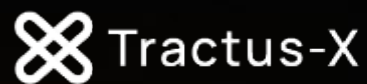on the basis of a decision
by the German Bundestag
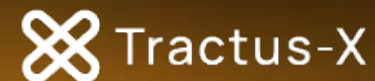
WORKSESSION 4

DIGITAL PRODUCT PASS INTRODUCTION

MATHIAS BRUNKOW MOSER - CGI

DIGITAL PRODUCT PASS SOFTWARE ARCHITECT – ECLIPSE COMMITTER

STUTTGART - 16,17 MAY 2024

The Digital Product Pass Workstream

Be ready to embrace a complete Catena-X Circular Economy hands-on challenge!

INTRODUCTION

The Digital Product Pass Work-session will help you to understand from A-Z how **Product Passports** work and why they are so important! A great hands-on challenge will be provided! Learn in two Phases how to leverage Eco-design Digital Product Passports in Tractus-X using Catena-X!

PHASE 1: DATA PROVISION

Create your own DPP serialized aspect model, connect it with a **Digital Twin** and provide it to the Catena-X Network!

You will also get the chance of understanding how to provide QR codes for other people so other participants can retrieve your data!

PHASE 2: DATA CONSUMPTION

Play with the Tractus-X **Digital Product Pass Application**!

Scan several QR codes from your colleagues on a real Car to visualize the information and create your own Car Digital Product Passport!

PREREQUISITES:

→ Bring your **computers and smartphones**! (VS Code, Postman/Insomnia, SSH) **Optional**: Minikube. Don't forget to bring also much **Proactivity, Curiosity and Motivation**!

TRACTUS-X
DIGITAL PRODUCT PASS
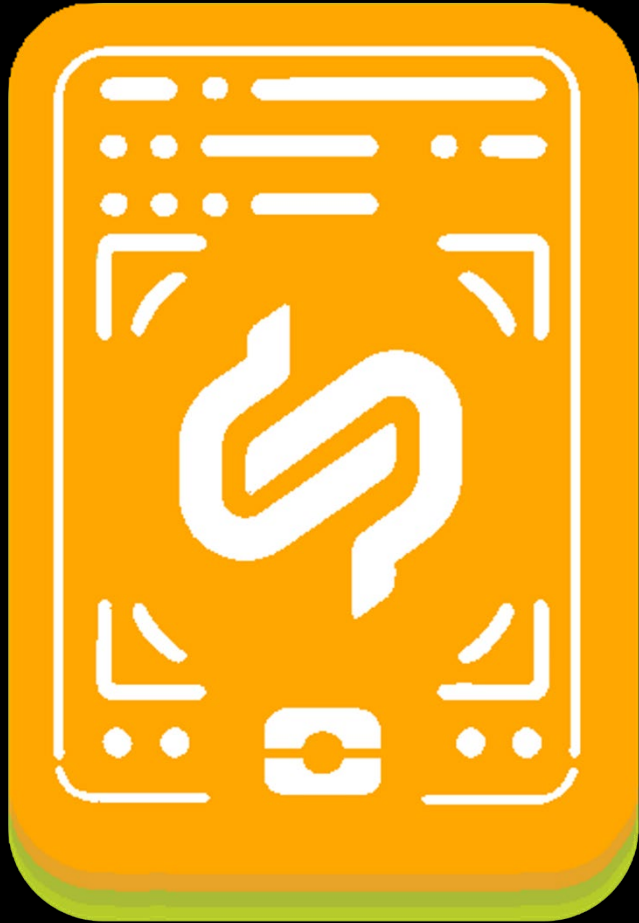
The Digital Product Pass

An open-source application capable of consuming standardized product passports stored in a data provider, by simply scanning a QR code or introducing an ID to retrieve the data from Digital Twins across the Catena-X Network.

+ It is the reference implementation

of the EcoPass KIT!

FEATURES

dpp-frontend

Display CX Aspect Models

- Digital Product Passport
- Battery Passport
- Transmission Passport

View Relationship Parts Tree

Data Sovereignty

- Select/Configure Policy Details
- View EDC Contract Exchange Details
- Check for EDC Business Part Number

dpp-backend

Retrieve any CX Aspect Model Data

- Search for Digital Twin Registries
- Search for Digital Twins in DTRs
- Retrieve Data through the EDC Proxy
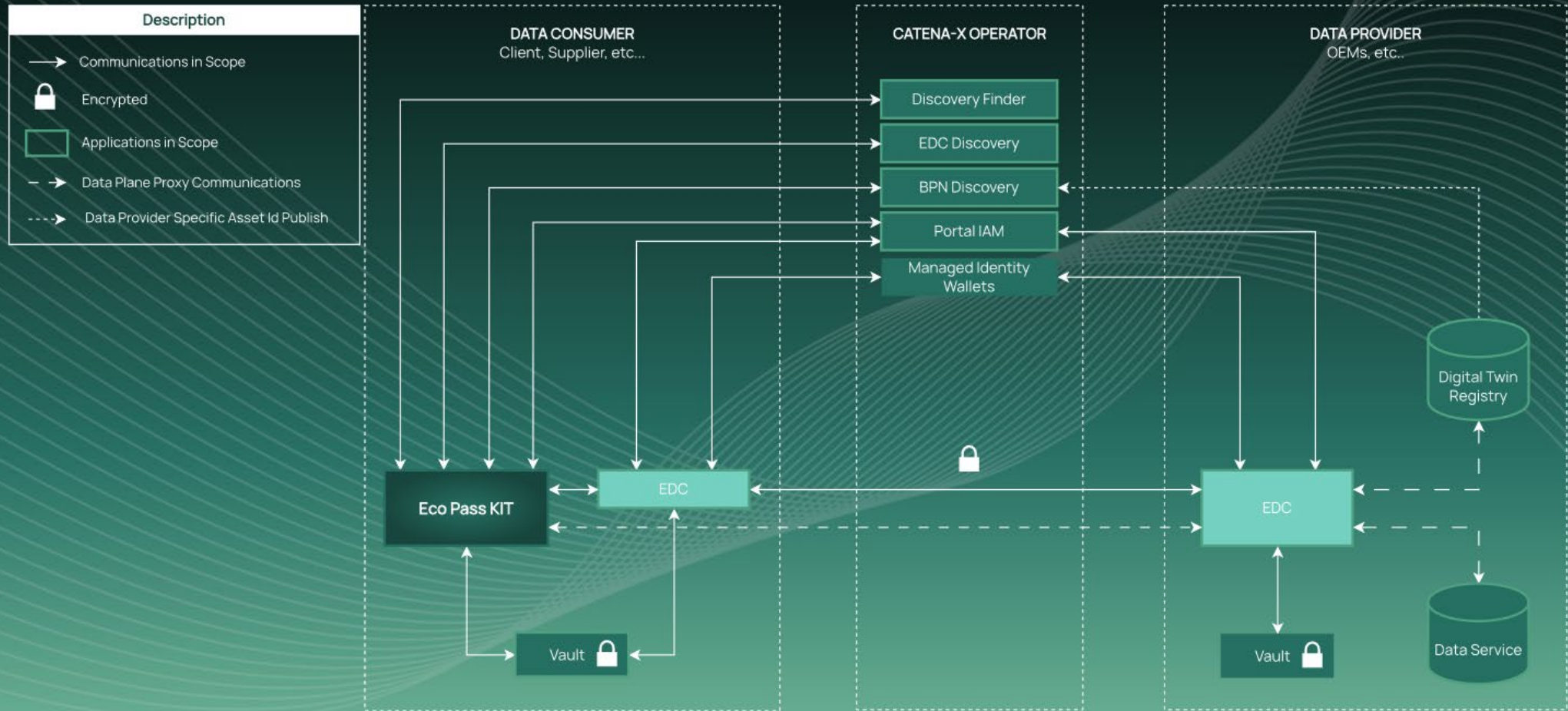
Add-ons

- Item Relationship Service (IRS) Usage
- New!
  Digital Product Pass Verification

ARCHITECTURE

EcoPass KIT Software Architecture

Description
- → Communications in Scope
- 🔒 Encrypted
- ▢ Applications in Scope
- --→ Data Plane Proxy Communications
- ---→ Data Provider Specific Asset Id Publish

DATA CONSUMER
Client, Supplier, etc...

CATENA-X OPERATOR
- Discovery Finder
- EDC Discovery
- BPN Discovery
- Portal IAM
- Managed Identity Wallets

DATA PROVIDER
OEMs, etc..

- Eco Pass KIT
- EDC
- Vault
- EDC
- Vault
- Digital Twin Registry
- Data Service

Release 24.05 News

Digital Product Pass Verification **Documentation** Available!

+ PoC Implementation Planned for Release 24.08

Keep an eye in the Digital Product Pass Tractus-X Repository to receive the latest updates!

⊗ Developer

Tractus X

Open EcoPass KIT ↗

Open DPP Repo ↗

Thank you
& let's meet at the
Workstream 4 !