

DATA SPACE ACCELERATOR WEBINAR for Japanese Suppliers

Sep 1, 2026 | 17:00-18:00 JST | Online ... held in Japanese

Akira Sakaino | Evangelist (NTT DOCOMO Business)

Chris S Langdon, PhD | VP AI-Data Ecosystems Americas,
Catena-X PM (Deutsche Telekom and T-Systems)

Xin Xu | General Manager (DENSO)

DATASPACE AND BATTERY PASSPORT | AGENDA

- | | | |
|-----------|---|--------------|
| 01 | Dataspaces: Decentralized data sharing/ sovereignty | 10 |
| 02 | EU battery passport and Catena-X solution | 10-15 |
| 03 | DENSO EcoPass: A battery passport solution in practice | 10 |
| 04 | IDSA Data Space Accelerator study | 10-15 |
| 05 | Q&A | 15 |

I'M CHRIS S LANGDON



CEO IDSA Ambassador U.S.

International Data Spaces Association (IDSA)

主な職務

T Systems

- T-Systems Berlin: AI & Data Auto & Global
- Telekom San Francisco: VP AI & Data Ecosystems, Americas

AIAG

AIAG's Catena-X Hub North America:
Steering Committee

ROX
Enabling AI Robotics

AI: \$50M consortium, 24 companies: **Principal investigator** TSI, lead of "Digital AI Robotics Ecosystem"

gaia-x K

AI: \$200M consortium: **Principal investigator** TSI, lead of Advanced Mobility, lead of dataspace for Gaia-X 4 AI

Catena-X
Your Automotive Network

Ecosystem Dev Mgr U.S. (in 2021-2024-\$250M-CX-Consortium: **Chief developer/ Product Manager**)



Principal investigator TSI; lead of intermodal travel app prototype with dataspace for ITS WC 2021

LET'S STAY IN CONTACT!



in LINKEDIN



専門分野



- Drucker Professor, AI PhD, founded Customer Lab
- 30+ years delivering data analytics success for Fortune Global 100 firms ... in USA, EU, China
- Start at Accenture ... followed firm into Silicon Valley, founded startup for Nissan, Mercedes-Benz

EU BATTERY PASSPORT

Mandatory across the EU from 18 February 2027

KEY DATE

**18 Feb
2027**

Becomes mandatory to place in-scope batteries on the EU market.

Regulation (EU) 2023/1542, Art. 77

WHO MUST COMPLY

EV batteries	Electric-vehicle traction batteries
LMT batteries	Light means of transport — e-bikes, e-scooters
Industrial batteries	Capacity greater than 2 kWh

WHAT THE PASSPORT CONTAINS

- Material composition
- Recycled content
- Dismantling instructions
- Carbon footprint
- State of health
- QR-linked unique ID

Source: European Commission — *Digital Product Passport for Batteries* (single-market-economy.ec.europa.eu); EU Battery Regulation (EU) 2023/1542, Article 77.

Catena-X標準による企業間データ共有の仕組み

通信方式・データ形式を共通化

データスペースプロトコル
標準インターフェース(EDC)で相手と直通

運用事業者(Cofinity-X)はデータを預からない

デジタル証明書
で本人性証明

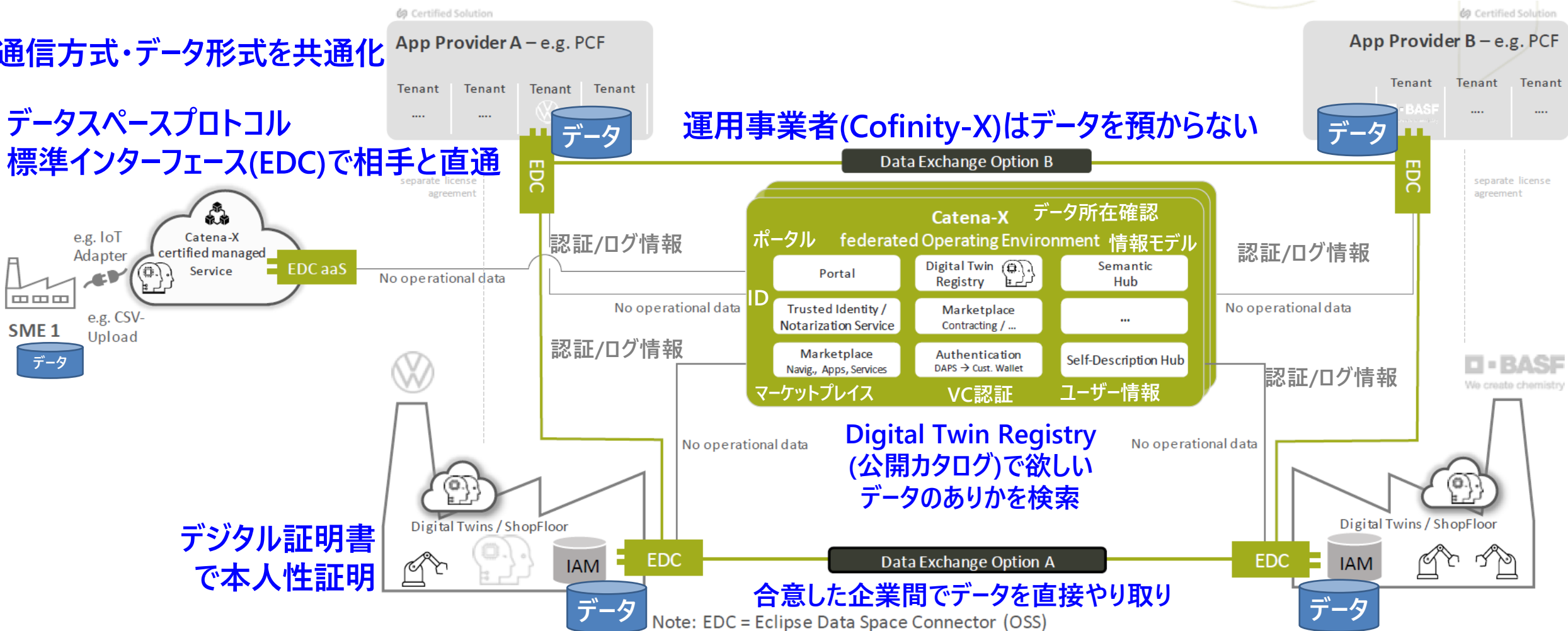
Digital Twin Registry
(公開カタログ)で欲しい
データのありかを検索

合意した企業間でデータを直接やり取り

各企業が自分でデータを管理

EDC : Eclipse Dataspace Connector = コネクターの一種

必要なデータを 必要な時に 特定の相手にだけ 安心安全に 自動的に開示できる



Catena-Xが標準化を進めるユースケース（アプリケーション）



ドイツ自動車メーカーが 日本のサプライヤーにも Catena-X標準に準拠したデータ交換の要請を開始

Catena-Xのルールや標準はすべてインターネット上で公開

つながう。驚きを。幸せを。

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**Catena-X**
Your Automotive Network

Business Areas ▾ Ecosystem ▾ Association ▾ About us Catena-X Campus New

**Catena-X**

Standards ▾ Regulatory Framework Operating Model **Working Model** Releases ▾ CX-10 (Current) ▾    

Overview

Organizational Structure >

Process Structure >

Test Management >

Changelog

Legal

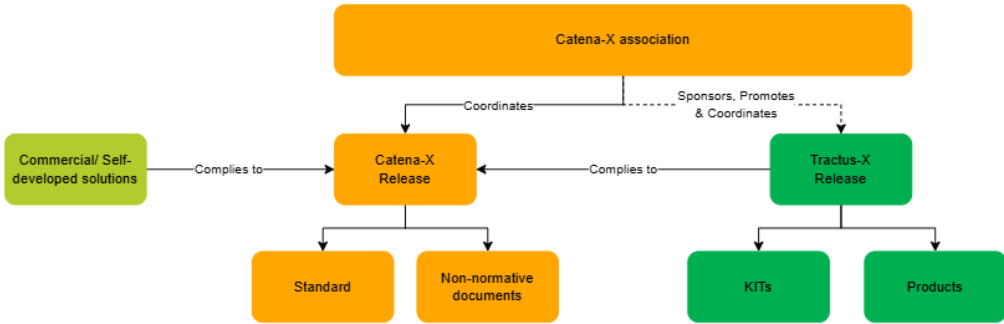
Overview

Release: CX-10 (Current)

Overview

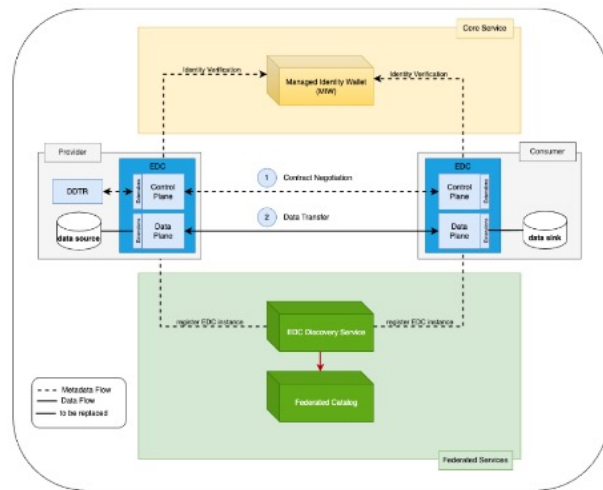
This working model is meticulously designed for members of our association and those involved in the various association bodies. It serves as a comprehensive guide to understanding the organizational structure, the specific roles within the association, and the interrelation between Catena-X and Tractus-X. It includes detailed information on the development environment (Plan and Build), contrasting with the **Operating model** that describes the model for the production/live environment (Run).

The focus of the development environment is on the one hand on the creation of standardization candidates that can be submitted into the standardization process of the Association, and on the other hand, the development of open-source reference implementations and other implementations for the dataspace.



1.3 Architecture Overview

This section is non-normative



1.6 Examples

SD for Legal Person

```
{
  "id": "https://compliance.gaia-x.eu/.well-known/participant.json",
  "@context": [
    "https://www.w3.org/2018/credentials/v1",
    "https://registry.gaia-x.eu/v2206/api/shape/files?file=participant&type=jsonld",
    "https://raw.githubusercontent.com/eclipse-tractusx/sd-factory/main/src/main/resources",
    "https://w3id.org/vc/status-list/2021/v1"
  ],
  "type": [
    "VerifiableCredential",
    "LegalPerson"
  ],
  "issuer": {
    "id": "did:sov:Bq3Mk9Z7sT8KqHnCn64PrB",
    "issuanceDate": "2022-09-23T23:23:23.235Z",
    "credentialSubject": {
      "ctxsd:bpm": "1234",
      "id": "did:web:compliance.gaia-x.eu",
      "gx-participant:name": "Gaia-X AISBL",
      "gx-participant:legalName": "Gaia-X European Association for Data and Cloud AISBL",
      "gx-participant:registrationNumber": {
        "gx-participant:registrationNumberType": "local",
        "gx-participant:registrationNumber": "0752747721"
      },
      "gx-participant:headquarterAddress": {
        "gx-participant:addressCountryCode": "BE",
        "gx-participant:addressCode": "BE-BRU",
        "gx-participant:streetAddress": "Avenue des Arts 6-9",
        "gx-participant:postalCode": "1150"
      }
    }
  }
}
```

サービス提供者/利用者の役割、企業/製品情報のデータモデル、ID体系などを公開

つなごう。驚きを。幸せを。

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 Notifications

Fork 68

☆ Star 49

Files

 main



Q Go to file

> 3.0.0

> 4.0.0

> 4.0.1

> 5.0.0

> 6.0.0

7.0.0

▼  gen

 Pcf-aas.xml Pcf-context.jsonld Pcf-schema.json[sldt-semantic-models](#) / [io.catenax.pcf](#) / [7.0.0](#) / [gen](#) / [Pcf-schema.json](#) 

GitHub Actions Bot Adding auto-generated artifacts for new models

f6002c2 · 7 months ago  History

Code

Blame

Raw



▼

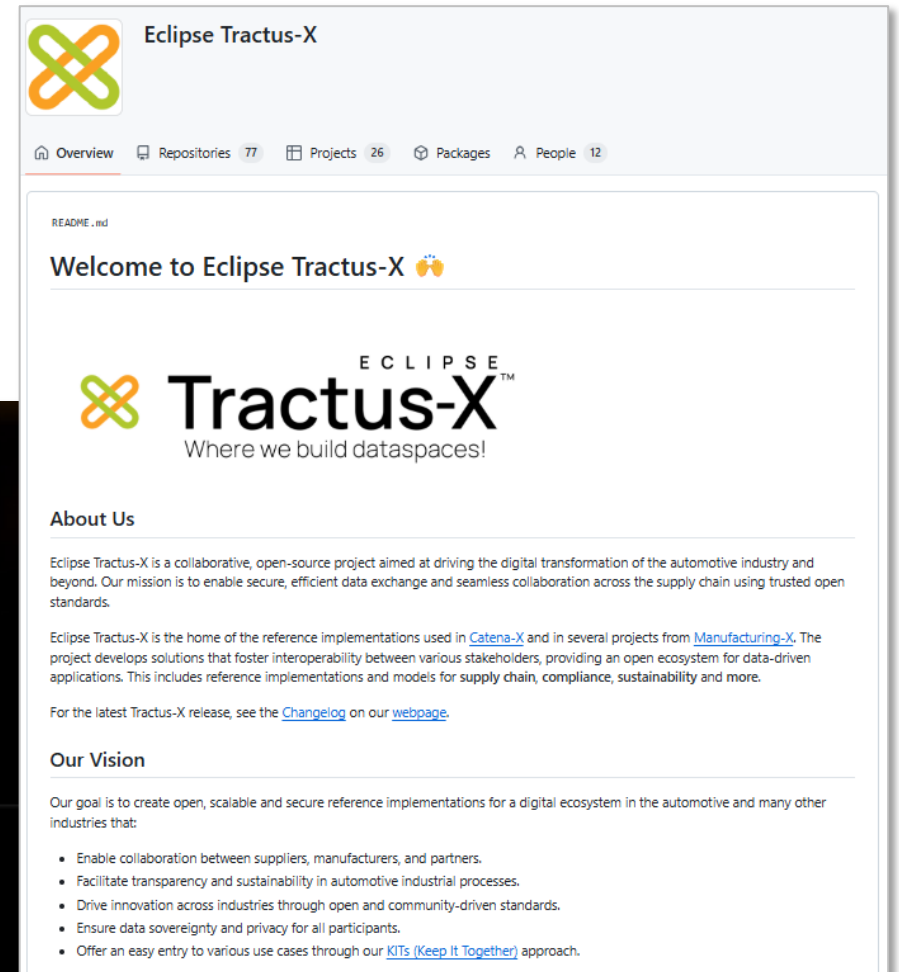
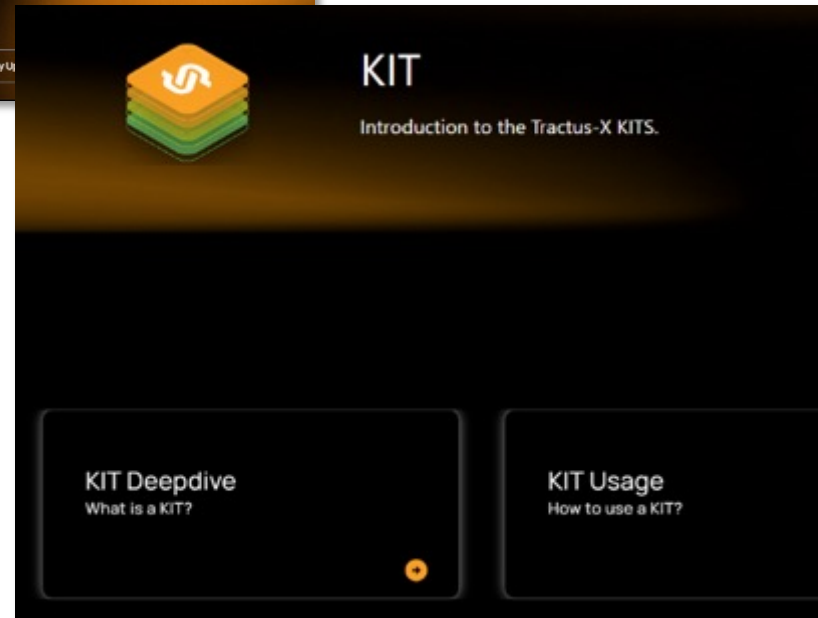
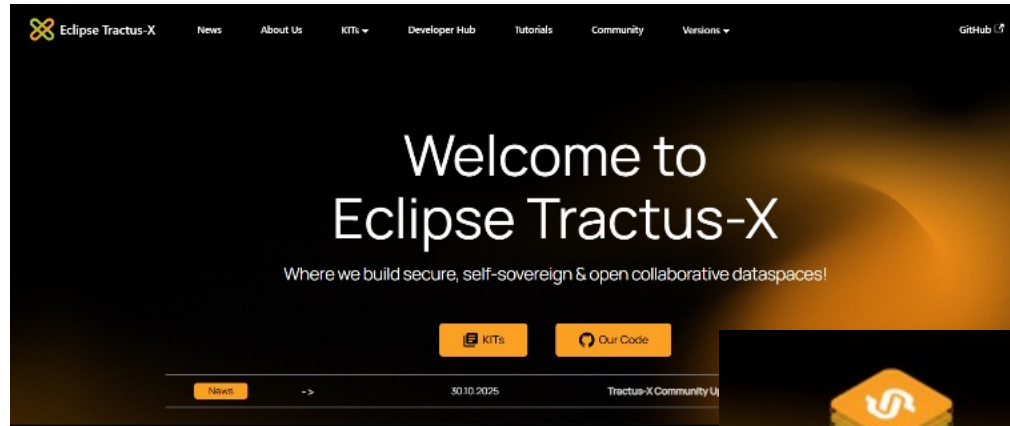
1

```

1  {
2    "$schema" : "http://json-schema.org/draft-04/schema",
3    "x-samm-aspect-model-urn" : "urn:samm:io.catenax.pcf:7.0.0#Pcf",
4    "description" : "A Product (Carbon) Footprint represents the carbon footprint of a product with values as specified in the",
5    "type" : "object",
6    "components" : {
7      "schemas" : {
8        "UuidV4Trait" : {
9          "type" : "string",
10         "x-samm-aspect-model-urn" : "urn:samm:io.catenax.shared.uuid:2.0.0#UuidV4Trait",
11         "description" : "The provided regular expression ensures that the UUID is composed of five groups of characters separated by hyphens",
12         "pattern" : "^(^([0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12})$)|(^urn:uuid:[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12})$",
13       },
14       "Text" : {
15         "type" : "string"
16       }
17     }
18   }
19 }

```

データスペースの機能は Eclipse Foundationで開発 オープンソース “Tractus-X” を無償で公開



Tractus-Xを使って Catena-X以外にも 様々なデータスペースが構築・運用されている

Tractus-X 仕様公開サイト(github)

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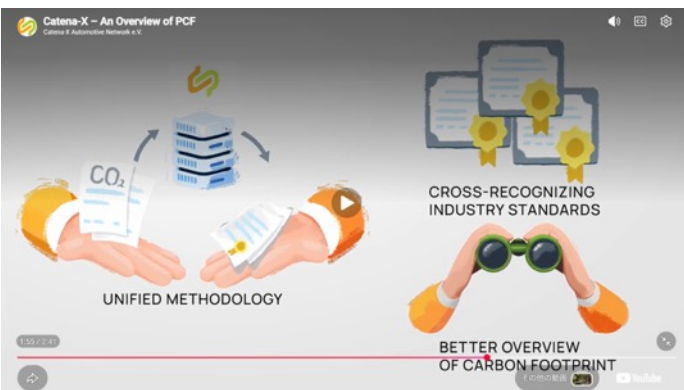
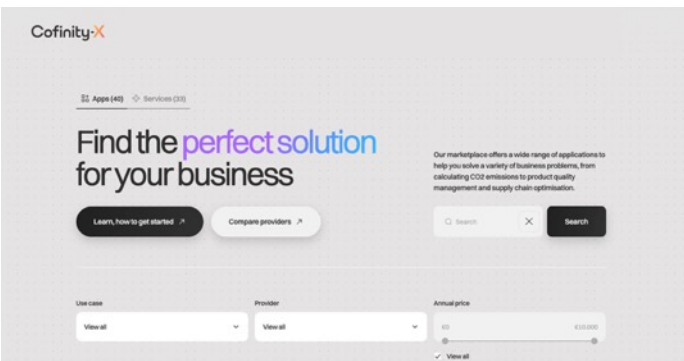
The screenshot displays the GitHub interface for the repository `eclipse-tractusx / tractusx-edc`. The left sidebar shows the file tree with the following structure:

- `.github`
- `charts`
- `core`
 - `core-utils`
 - `src`
 - `main/java/org/eclipse/trac...`
 - `test/java/org/eclipse/trac...`
 - `ConfigUtilTest.java` (selected)
 - `PathUtilsTest.java`
 - `build.gradle.kts`
 - `edr-core`
 - `json-ld-core`
 - `docs`
 - `edc-controlplane`
 - `edc-dataplane`

The main content area shows the code for `ConfigUtilTest.java`. The commit message is `chore: harmonize settings names (with backwards compat) (#1307)` by `paullatzelsperger`. The code is as follows:

```
1  /*
2   * Copyright (c) 2024 Bayerische Motoren Werke Aktiengesellschaft
3   *
4   * See the NOTICE file(s) distributed with this work for additional
5   * information regarding copyright ownership.
6   *
7   * This program and the accompanying materials are made available under the
8   * terms of the Apache License, Version 2.0 which is available at
9   * https://www.apache.org/licenses/LICENSE-2.0.
10  *
11  * Unless required by applicable law or agreed to in writing, software
12  * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
13  * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
14  * License for the specific language governing permissions and limitations
15  * under the License.
16  *
17  * SPDX-License-Identifier: Apache-2.0
18  */
19
20  package org.eclipse.tractusx.edc.core.utils;
21
22  import org.eclipse.edc.spi.EdcException;
```

6/22 Catena-X標準 認定アプリ(40個)の最新リストを公開



Certified Catena-X providers per use case

Product Carbon Footprint*



Company Certificate Mgmt



Demand & Capacity Mgmt



Business Partner Data Mgmt



Digital Product Passport



Quality



Core Setup



Traceability



Short Term Supply Mgmt (PURIS)



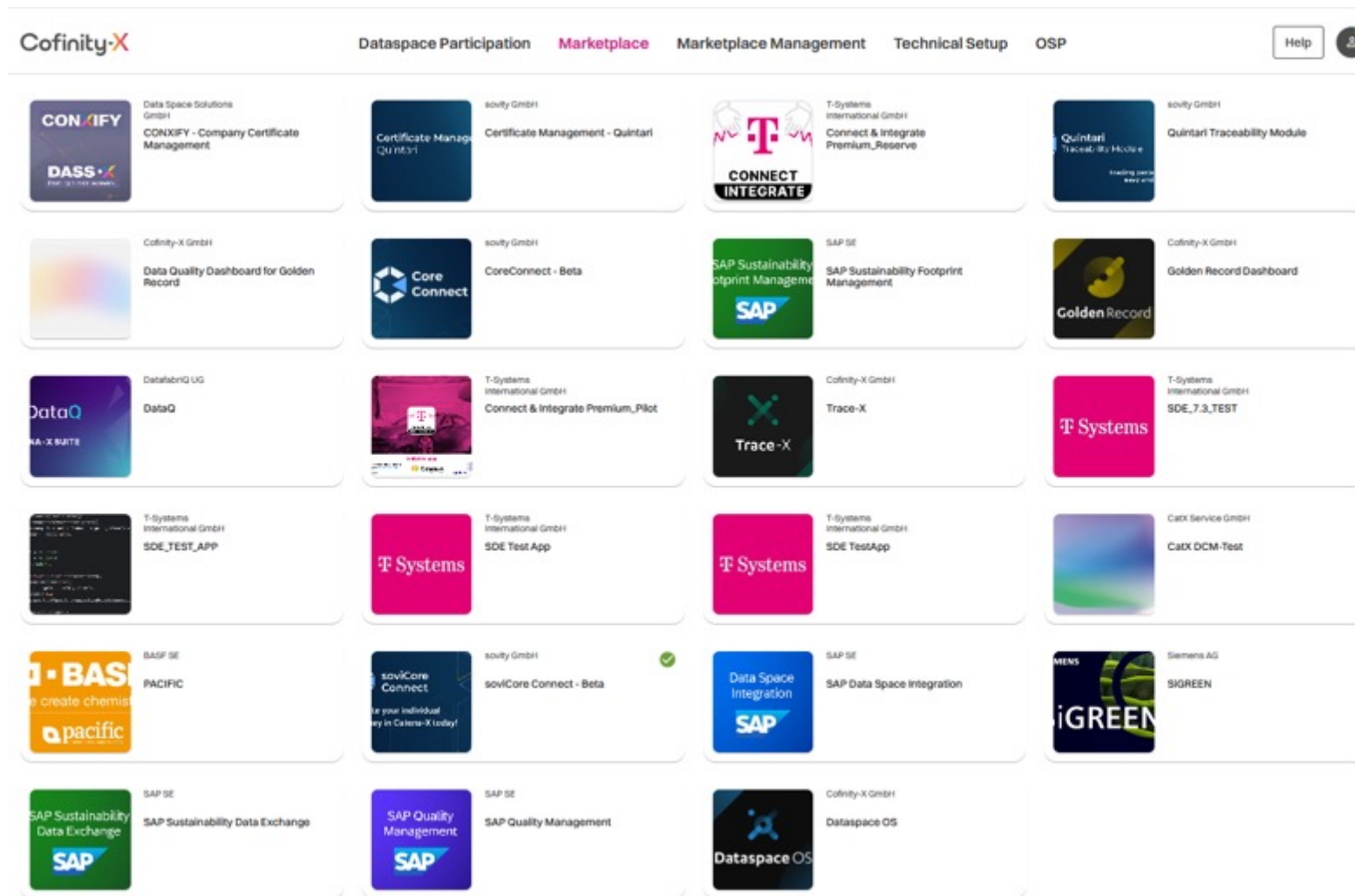
*covering both PCF calculation and data exchange applications.

Overview based on the current status as of 25. June 2026.

Catena-X標準対応アプリケーションサービスが各社から商用提供

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標準に準拠していることを第三者機関が審査し 認定されたものだけがマーケットプレイスに掲載

Catena-X標準アプリの例 (ドイツT-Systems社 Connect & Integrate)



Connect & Integrate

by T-Systems International GmbH

Connect & Integrate is the all-in-one package for participation in the Catena-X Data ecosystem.

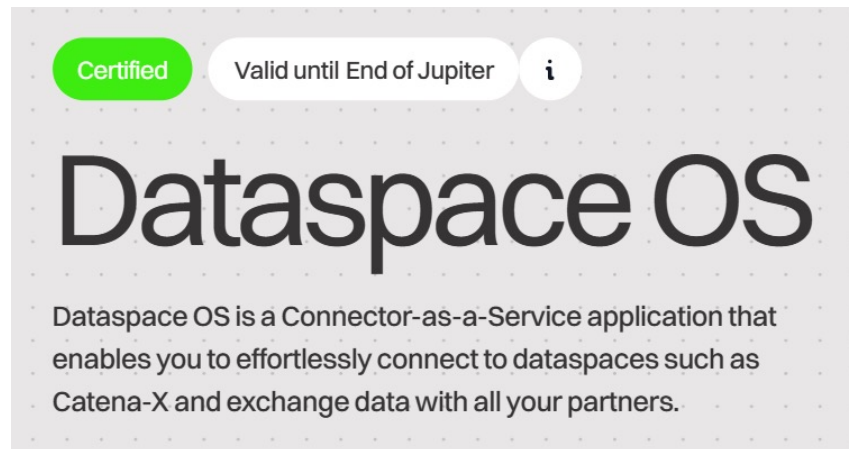


Catena-X標準に準拠した様々なユースケースに対応するデータ交換サービス

Catena-X標準アプリの例 (ドイツCofinity-X社 Dataspace OS)

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Dataspace OS is a Connector-as-a-Service application that enables you to effortlessly connect to dataspace such as Catena-X and exchange data with all your partners. Unlock multiple use cases and increase sustainability, quality, and resilience.

Available on Amazon Web Services (AWS) and Microsoft Azure infrastructure.

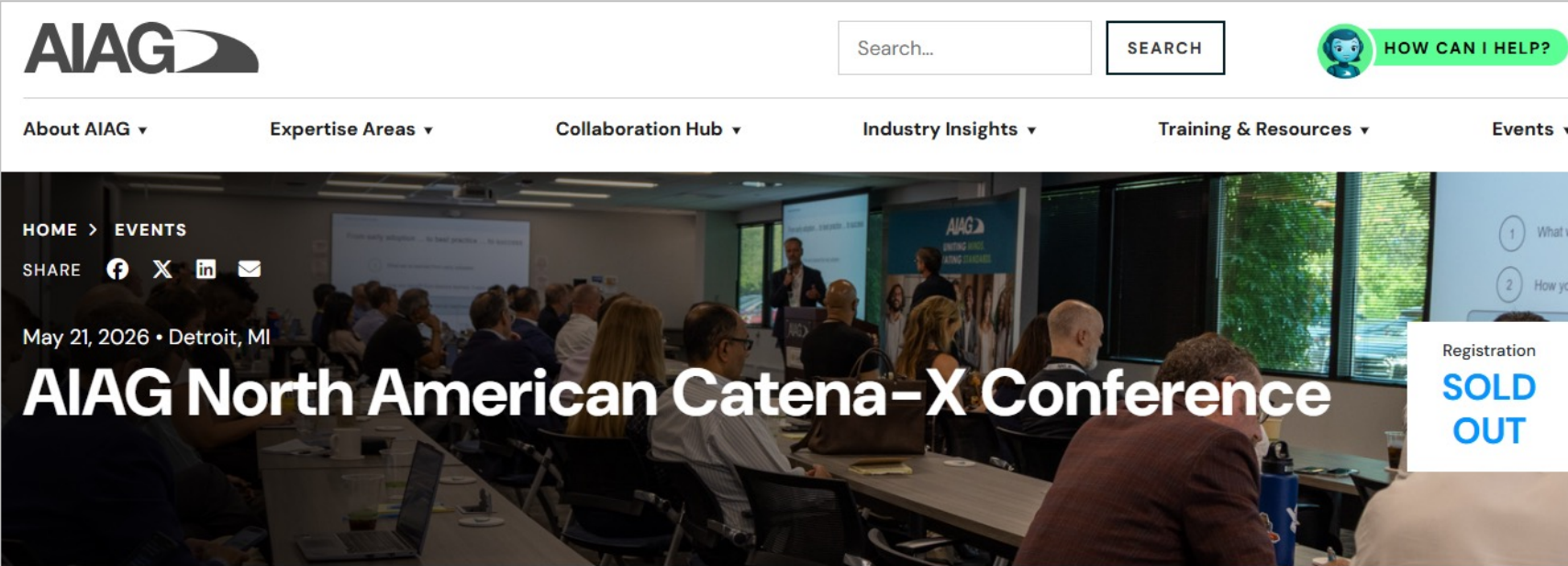
Key benefits:

- Increased efficiency
- Optimized sustainability and compliance
- Reduced complexity
- Access to innovative data-driven business models
- Increased resilience
- Catena-X certified solution
- Fully compliant with IDSA and Gaia-X standards
- All in one solution: EDC, DTR, and Submodel Server in one unified platform

Dataspace OS supports multiple Use Cases from Certificate Management to Product-Carbon-Footprint (PCF) data exchange, enabling companies to collaborate securely and efficiently while maintaining full data sovereignty.

Catena-X標準に準拠したPCFデータ等を企業間でグローバルに交換できる

5/21 米国デトロイト AIAG で Catena-Xカンファレンス



The banner image shows a large audience seated in a conference hall, facing a stage with a presentation screen. The AIAG logo is visible on the stage backdrop.

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AIAG North American Catena-X Conference

Registration
SOLD OUT

May 21, 2026

Elevate At One Campus Martius
Detroit, MI

Break Down Barriers. Build the Future. Catena-X Comes to Detroit.

On May 21, 2026, join AIAG-North America's official Catena-X Hub-at Elevate in Detroit for the event where data collaboration becomes real, actionable, and unstoppable.

日本のサプライヤーも 昨年～今年にかけ Catena-Xの優先ユースケースを順次利用開始