99 Problems but Catena-X ain’t one

Life is for sharing... with data on your terms
Agenda

01 Business value and challenges to participate in Catena-X
02 Connect & Integrate in 5 steps
03 T-Systems portfolio for Catena-X
04 Catena-X use cases
05 Why T-Systems for Catena-X
01 Overcome challenges to participate in Catena-X

- **App**
  How to build applications in days instead of years? Quick, fast and agile app development is key.

- **Integrate**
  How to exchange data with Catena-X despite heterogenous IT-landscapes and data semantics?

- **Connect**
  How to deploy and configure critical dataspace components, such as EDC, without internal knowledge or IT-resources?

- **Governance**
  How to govern data, organizations, policies, compliance, multi-dataspaces... with sovereignty protection?

How to participate, interact and govern in an ecosystem in which every participant can share data with sovereignty protection?
01 Why Catena-X? | Discover your added value

Maximize your business value:

- **Resilience**
- **Sustainability**
- **Economy**
- **Traceability**
- **Legal compliance**
- **Circular economy**

T-Systems enables any organization to connect and share data according to Catena-X’s data sovereignty protection.

Minimize your efforts and risks:

- **QUICK** | Connect and integrate fast to Catena-X
- **EFFICIENT** | Low effort with automated processes
- **ONE4ALL** | Participate in all use cases
- **SCALABLE** | Data chain setup for all company sizes
- **SECURE** | Trust Anchor & sovereign clouds

We support you through your whole dataspace journey!
02 Catena-X | 5 steps to success

Step 1
Define your use case and data exchange scenario

Step 2
Connect to Catena-X with full sovereignty

Step 3
Implement architecture for data integration

Step 4
Map and convert your data models to Catena-X models

Step 5
Govern and exchange data in Catena-X network

Benefit and Scale
03 T-Systems Portfolio for Catena-X

Interact & Govern
Manage your actions with an easy-to-use UI / UX

Build
Develop Business Applications

Integrate
Standard (SME) | Customized (Large Companies)

Connect
Access to Catena-X

Understand
Implementation

Advisory
Strategy
Connect | Your access to Catena-X

**Target Group**
Any dataspace participant – companies small, medium and large

**Features**

- **Auto-setup:** Automatic provision and configuration into Catena-X on any cloud
- **Catena-X certified** managed solution, IDSA certified & Gaia-X compliant services
- Advanced **data usage control** and policy setup, management and negotiation
- **Trust ensured** by Deutsche Telekom’s independent and secure global network
- Fully supportive of Catena-X **Managed Identity Wallet (MIW) and distributed Digital Twin Registry (dDTR)**
- **Sovereign Plus:** to offer data stored in the T-System Sovereign Cloud (end-to-end sovereignty protection)
Integrate Standard

Target Group
Small and medium-sized companies (data consumer and/or provider)
App Providers

Features
- All benefits of Connect offering (also on premise)
- Auto-setup of managed service in few clicks
- Data integration of any IT system via exchange format or standardized API
- Basic mapping & conversion of data models
- Basic data governance support
- User-friendly GUI with low-code approach
- Support of all Catena-X use cases and data processing protocols
Integrate | Customized

Target Group
Medium-sized to large companies (data consumer and/or provider)

Features

- All benefits of Connect offering (also on premise)
- **Data integration** of any IT system via middleware (own solution or T-Systems PDM Web connector)
- **Out-of-the-box adapters** for several corporate IT systems (PLM, ERP, ALM etc.)
- **Extensive support** for semantic mapping, data conversion, change impact analysis, visualization
- Support of all Catena-X use cases and data processing protocols
Use Case Scenario: SUSTAINABILITY
Build | App Development in 3 days

Target Group
Companies of all sizes
App Builders

Features

- Upgrade existing apps or create new to **benefit from better data** across organizations, such as digital twins
- **You focus on your apps** - we maintain the dataspace that powers it
- Develop **business apps that scale** from 1:1 to 1:many in **3 days**
- Based on Semantic Web technology for dataspaces
- Living Lab, App prototyping sandbox as a managed service based
- Support for App conceptualization (e.g. semantic modelling) and development (e.g. frontend design)

Your dataspace sandbox

App development

Dataspace

Managed service platform

EDC Connector

Tools

Identity

Support

Speed up time to market with best-in-class data sovereignty protection
What’s in for you?

- Dataspace 101
- Connect & Integrate
- Dataspace Governance
- App Design & Prototype

Modular Concept:

- Technical Four modules to customize your workshop experience

Duration:

- Technical 1-3 Days

What you will learn:

- Technical knowhow on Catena-X and dataspaces in general
- Value creation within dataspaces
- Interactive deep dives to identify challenges and solutions for your individual needs
Interact & Govern | Participate without sorrow

Features:

UI/UX Factory
- All-in-one platform
- Easily manage accounts, permissions and apps
- User-friendly interface

Digital.ID
- eIDAS conform signature
- Gaia-X compliance
- Trusted data sources, such as OpenCorporates
- User-friendly UI & business reporting

Governance Kit
- Digital Thread from backend data to published EDC assets, policies, contracts and auditable protocol of shared data
- Management & configuration of multiple EDCs in one frontend
### 04 Catena-X use cases | a few examples

<table>
<thead>
<tr>
<th>Use Case</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sustainability (CO2 Footprint)</strong></td>
<td>CO2 reporting along the automotive value chain to calculate and compare CO2 data in a standardized way.</td>
</tr>
<tr>
<td><strong>Circular Economy</strong></td>
<td>Integrate all levels of value creation and to make the circular economy more sustainable, durable and transparent.</td>
</tr>
<tr>
<td><strong>Real-time control</strong></td>
<td>Stabilise processes and ensure greater efficiency for all Tiers by predictive online control and simulation.</td>
</tr>
<tr>
<td><strong>Traceability</strong></td>
<td>Enabling end-to-end tracking of products, components and materials throughout the entire product life cycle.</td>
</tr>
<tr>
<td><strong>Manufacturing-as-a-Service</strong></td>
<td>Bringing together prospective customers, suppliers and on-demand manufacturing platforms for interaction.</td>
</tr>
<tr>
<td><strong>Digital Twin</strong></td>
<td>Use of digital behaviour twins for seamless integration of each product and all its sub-components.</td>
</tr>
</tbody>
</table>
05 Why T-Systems for Catena-X?

OUTSTANDING COMPETENCE
✓ Pioneer in Dataspaces & Data Integration
✓ One of the seven founding members of Catena-X
✓ Key contributor in platform development
✓ Operation of use cases and beta test environment
✓ Onboarding of partners

SUPERIOR SOLUTIONS
✓ Catena-X certified
✓ Vendor independent integration
✓ “Off-the-shelf” backend adapters
✓ ONE data governance & integration hub
✓ Scalability from a few to mass data
✓ User-friendly GUIs and low-code
Next steps | Contact us!

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Visit our website!
Thank you!
Customer Success | References

**Challenge**
- Automotive sector needs to data-driven value chain
- Secure identities and data sovereignty
- Catena-X follows Gaia-X guidelines to build a trusted data infrastructure
- Verifying credentials of participants in Catena-X

**Solution**
- T-Systems as Gaia-X Digital Clearing House Node, serving as a Trust Anchor
- Beyond eIDAS certificates, T-Systems validates commercial registration and tax numbers
- Company receives verified credential for the Catena-X – similar to an ID card

**Customer benefits**
- Digital.IDs provide a trusted proof of authenticity
- Trustworthy framework compliant with Gaia-X regulations
- Trusted and secure data exchange in the largest sovereign ecosystem operated by both automotive manufacturers and suppliers built on trust

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**Challenge**
- Complicated and costly assessment of end-of-life vehicles concerning purchase decision, disassembly and recycling
- Currently costly commercial databases + own expertise used

**Solution**
- Utilization of CX Feature “Circularity Dashboard” by LRP to improve data availability & decision making
- Connection of the ERP (ODOO) to the Catena-X infrastructure via T-Systems “Integrate Standard” product (Basic data exchange service for Catena-X)

**Customer Benefit**
- (Partial) automation of data exchange
- Reusability increase of end-of-life vehicles and their components by re-selling or recycling them

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