Gaia-X Digital Clearing House provider in practice

Establishing trust in dataspaces with Digital.ID
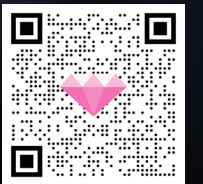
Aleksandar Kelečević | Product and Technology Lead - Data Economy, Telekom Data Intelligence Hub
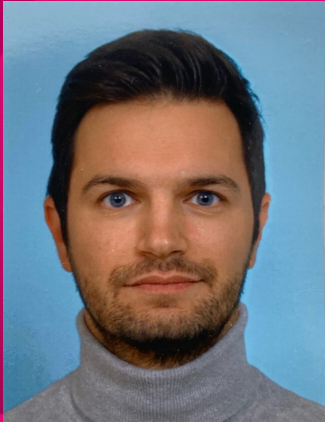
T-Systems International

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Let's power
higher performance

I'm Aleksandar **Kelečević**

Let's stay in contact!

LinkedIn

Key responsibilities

T‑·Systems — Product and Technology Lead - Data Economy, Telekom Data Intelligence Hub

Catena-X Your Automotive Network — Self-Sovereign Identity Expert Group

gaia-x — Gaia-X Digital Clearing House Contributor

Expertise fields

+7 years of expertise in designing and building large-scale data-driven systems

Enterprise and Data Architecture, with strong focus on data security, sovereignty and governance

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Agenda

01   **Trust & Participate on dataspaces**

02   **Reference | Catena-X**

03   **Contact us!**

Current challenges | Does this sound familiar?

Lack of trustful onboarding processes in ecosystems

- **Problems of operators:** customer onboarding and identity verification processes, are often slow, costly, and prone to errors

- **Problems of participants:** for each ecosystem one must go through the onboarding and identity verification process anew

Transparency vs. sovereignty

- Meeting the growing number of regulations and data protection requirements, often involves complex and costly processes and reporting

- At the same time, companies would like to control the information they are sharing and keep sovereignty over their data

Supply chain efficiency and transparency

- Supply chains, particularly global ones, suffer from inefficiencies, fraud, and lack of transparency

- Tracking the origin and movement of goods often involves multiple intermediaries and paper-based processes

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Why Digital.ID? | Digital verification matters

Digital identity verification ensures trust in dataspaces

Trust, but verify!

DIGITAL.ID

Secure digital identities for organizations & machines

Reduces overall business risks & increases consumer confidence through reliability of trust chains

Boosts operational efficiency through automation

Proof of authenticity and origin of digital assets

Ensures regulatory compliance, e.g., GDPR, eIDAS

Creates long-term business relationships built on trust

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Digital identities & importance of standards

Trust – main building block in digital world

Digital validation and verification: digital proofs of identity, membership, compliance, etc.

Digital Identities

What once had to be verified in person, can now be verified digitally

Self-Sovereign Identity (SSI)

Sovereignty assurance: full control over data and identity information

Decentralized Solution

Self-management without depending on third-party providers

Importance of standards

Usage of standards improves the market acceptance and interoperability

Implemented standards

- W3C Decentralized Identifiers
- W3C Verifiable Credentials
- Gaia-X Trust Framework 22.10
- eIDAS

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Trust & Participate | Building trust in dataspaces

T-Systems as a Trust Anchor for Digital Ecosystems and Dataspaces

Building Trust

Authentication and Provenance are important building blocks for establishing trust in modern industrial processes, such as supply chains and product pass applications.

Digital Trust Chains

In the course of hyper-networking and the exchange of digital assets, traceability, proof of origin and authenticity will be a crucial factor in mapping successful digital business processes.

Trust Anchors in Dataspaces

Ecosystems and Dataspaces rely on the legitimacy of the participating companies. Trusting cooperation thus enables a trustful exchange of digital assets.

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Trust & Participate | Service overview

Trusted Data Sources

- **VAT ID:** for the European member states or North Ireland, the VAT Information Exchange System (VIES)

- **EORI:** registration and identification of economic operators in the European Union

- **LEI Code:** the Global Legal Entity Identifier (GLEIF) with worldwide coverage

- **Local Commercial Registration Number**

opencorporates....

Validation: validation of companies' legal commercial registration numbers & European tax and customs identifiers

Gaia-X Compliance: validation of shape and content of Gaia-X Credentials, attesting the compliance with the latest Gaia-X Trust Framework

Credential Management: creation, secure storage und usage of Verifiable Credentials in user-friendly manner

Certificate & Signing: qualified certificates issued by Trust Service providers to increase trust in ecosystem

Business Reporting: reporting of successful and rejected validations and compliance requests for Dataspace operators

DIGITAL.ID

Credential

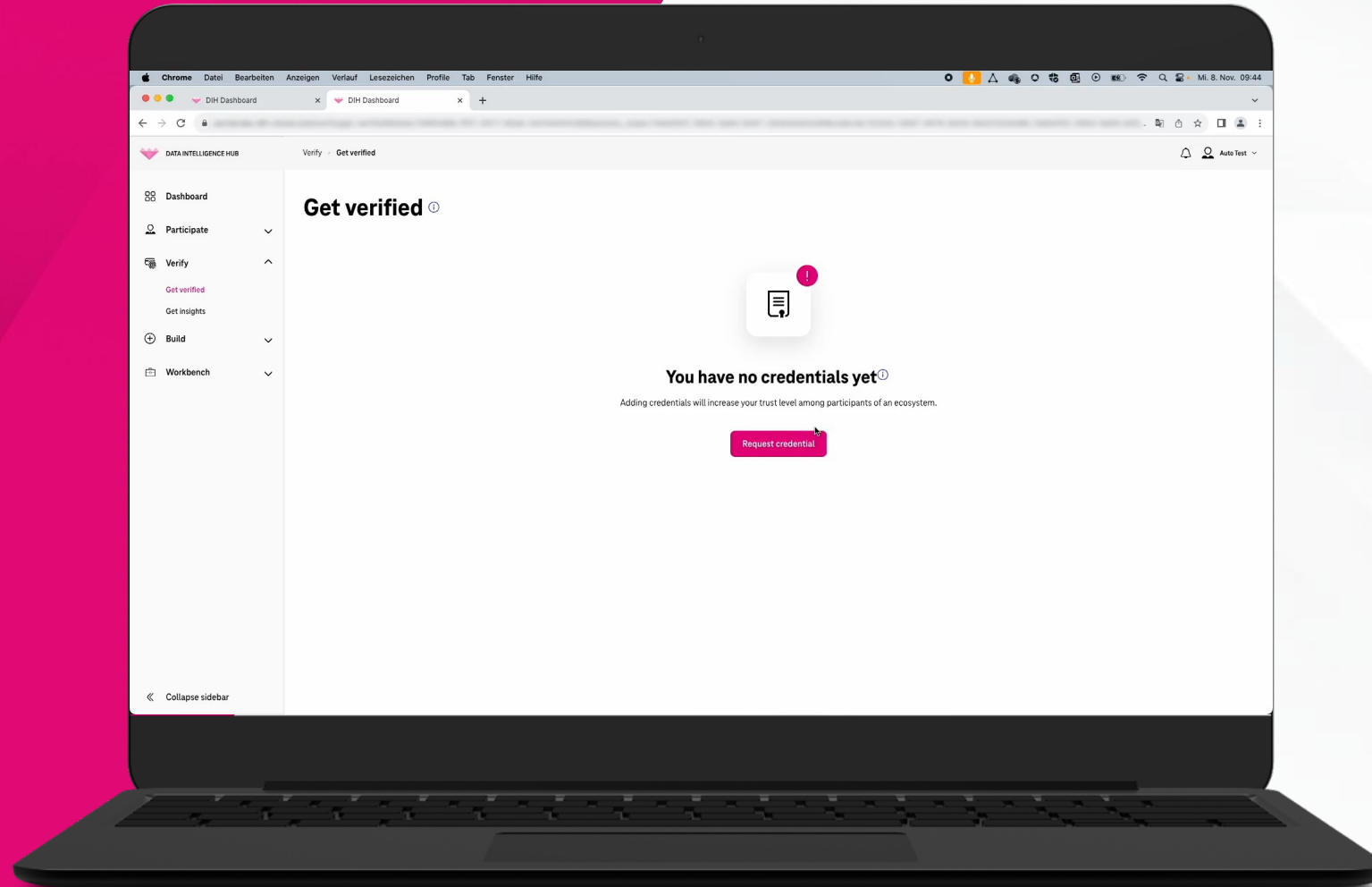# T-Systems is your entry point to Dataspaces

Why Digital.ID? | First trust service on the market

DIGITAL.ID

1st commercial product of GXDCH

Trustful
T-Systems' **independent** and **secure** global network entrusted with the GXDCH house node in Europe

Interactive
Highly intuitive easy-to-use UI for credential holder in recipient & credential lifecycle management

Wallet agnostic
Bring your own wallet or use our solution

aws
Open Telekom Cloud
Google Cloud
Azure

Interoperable
Take your identities to other data-driven ecosystems for complete interoperability (data mesh)

Intelligent
Based on custom parameters to allocate different **trust-levels** across dataspace participants

Conform
- **Gaia-X** or **Custom** compliant
- **JWT** conform
- **eIDAS** conform

eIDAS   gaia-x

SME   Medium -Enterprise   Large -Enterprise

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Agenda

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Reference | Catena-X

Digital.IDs for Catena-X create the largest sovereign ecosystem in automotive

Challenge

- The automotive industry, including suppliers, need to enter the data-driven value chain
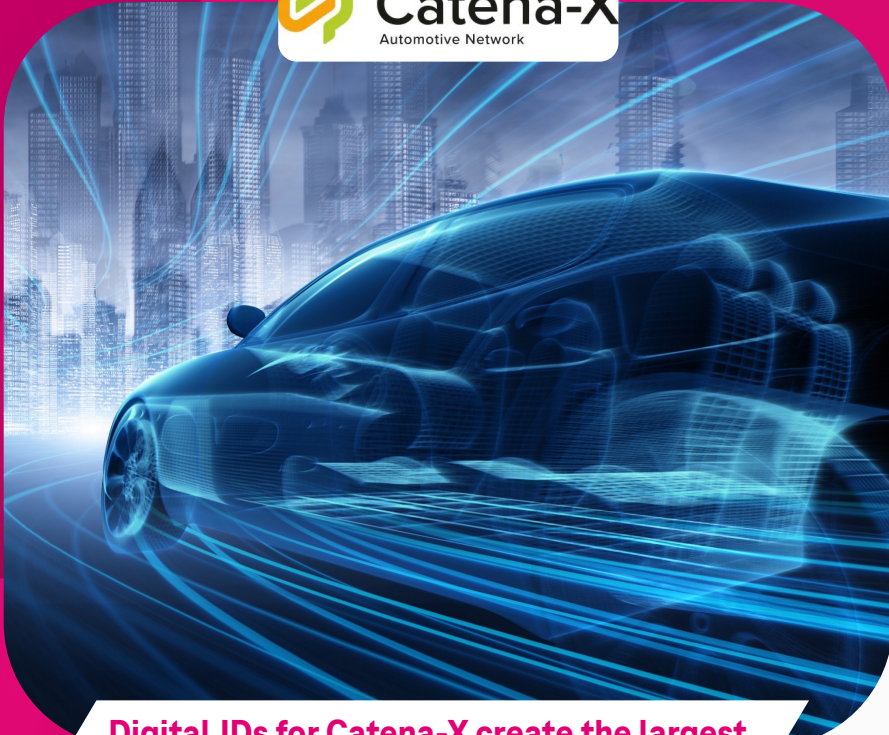- Sharing identities and data in the auto industry while preserving participants' data sovereignty
- Catena-X follows Gaia-X guidelines to establish a trusted data infrastructure with secure identity handling
- Verifying the credentials of the participating companies in Catena-X

Solution

- T-Systems, a government-accredited Trust Anchor, is chosen as a provider for Gaia-X Digital Clearing House
- T-Systems offers eIDAS compliant certificates and validates commercial registration and tax numbers
- Companies receive verified credentials akin to an ID card, ensuring compliance for the Catena-X ecosystem

Customer impact

- Digital.ID provides a trusted proof of authenticity
- Compliance with Gaia-X regulations provides a reliable framework
- Participants gain secure data exchange within the sovereign ecosystem shared by automotive manufacturers and suppliers

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Agenda

01   **Trust & Participate on dataspaces**

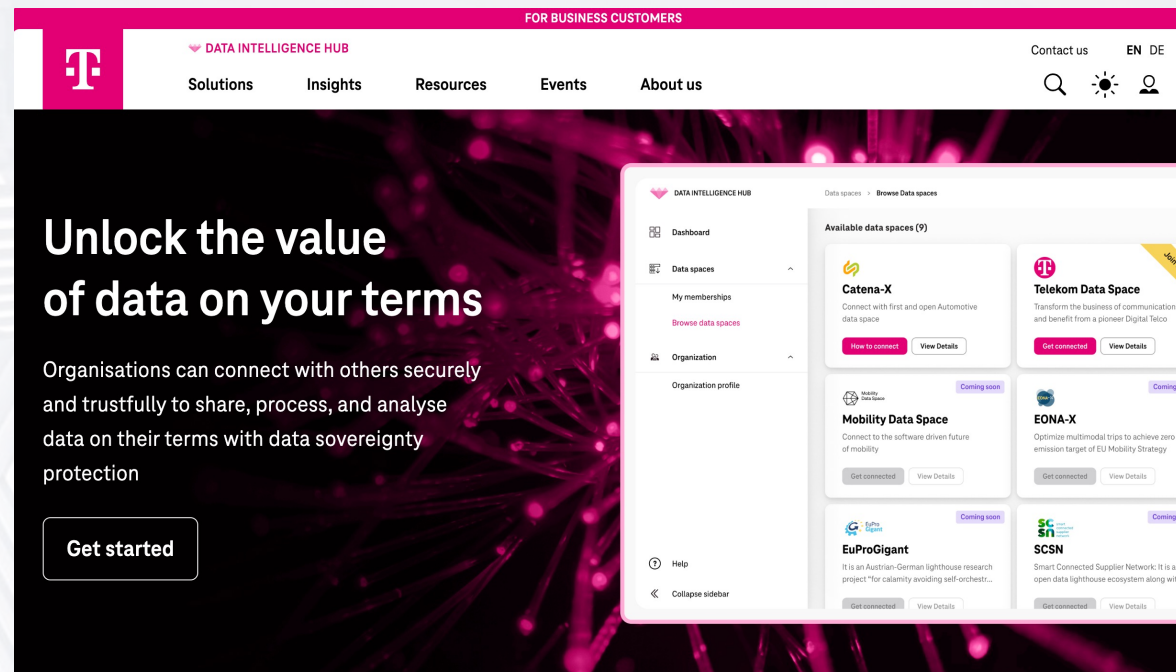**02**   **Reference | Catena-X**

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Next steps I Contact us!

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DATA INTELLIGENCE HUB

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Unlock the value of data on your terms

Organisations can connect with others securely and trustfully to share, process, and analyse data on their terms with data sovereignty protection

Get started

Data spaces > Browse Data spaces

Available data spaces (9)

Catena-X
Connect with first and open Automotive data space
How to connect   View Details

Telekom Data Space
Transform the business of communications and benefit from a pioneer Digital Telco
Get connected   View Details

Mobility Data Space — Coming soon
Connect to the software driven future of mobility
Get connected   View Details

EONA-X — Coming soon
Optimize multimodal trips to achieve zero emission target of EU Mobility Strategy
Get connected   View Details

EuProGigant — Coming soon
It is an Austrian-German lighthouse research project "for calamity avoiding self-orchestr...
Get connected   View Details

SCSN — Coming soon
Smart Connected Supplier Network: It is an open data lighthouse ecosystem along wit...
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Thank you!

T-Systems dataspace offering | 2024

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