

Every factory asset needs a digital identity. We make the standard accessible.

The Asset Administration Shell (AAS) is the global standard for digital twins in manufacturing. nexyo turns it into a service, so you can share, discover, and govern your asset data across Industry 4.0 dataspace.

USE CASES

Four proposals: who benefits from AAS as a Service first.

Component Suppliers

PROPOSAL

Digital nameplates and technical data for your components, as required by OEM customers and Manufacturing-X dataspaces.

IDTA-compliant from day one

Factory Operators

PROPOSAL

Digital twins of the production line: sensors, motors, conveyors, robots. Quality monitoring, carbon tracking, predictive maintenance.

One twin per asset

DPP Compliance

PROPOSAL

EU-compliant Digital Product Passports generated from existing asset data: battery, textile and electronics passports from one platform.

ESPR-ready before 2027

Supply Chain Transparency

PROPOSAL

Production data shared with partners through ADE dataspace: negotiated access policies, tracked provenance, provable compliance.

Governed, audited, sovereign

TRUST FORMULA

Trust is not a feeling: Identity + Policy + Evidence.

Identity

Every asset gets a standardized digital identity: AAS shells with IDTA-compliant submodels, discoverable via Registry and globalAssetId.

Policy

ODRL policies define who can access which submodels, under what conditions. Enforced across EDC and ADE dataspace connections.

Evidence

Every transfer logged, every access recorded: audit trails and compliance proof for DPP, customers and regulators on demand.

WHY NOW

Regulation, supply chains and interoperability are converging on manufacturing.

01

Digital Product Passport

The EU's ESPR requires Digital Product Passports for batteries (2027), textiles and electronics. The AAS is the technical backbone for DPP implementation in manufacturing.

02

AAS V3 (IDTA)

The Industrial Digital Twin Association defines the AAS as the interoperability standard for Industry 4.0. Over 80 submodel templates, from nameplates to carbon footprints.

03

Dataspace access

Catena-X, Manufacturing-X and ADE dataspaces require standardized asset data exchange. Without AAS, manufacturers are locked out of the emerging data economy.

ARCHITECTURE

Three layers: open standards, managed infrastructure, governed exchange.

At the top, the dataspace layer connects you to Manufacturing-X, Catena-X and ADE partners via EDC. In the middle, the managed nexyo platform runs AAS Repository, Registry, Discovery, governance and the AAS Explorer. At the bottom, your existing assets and systems: sensors, machines, products, ERP and PLM. You bring your asset data, we handle the AAS lifecycle.

TRACK RECORD

nexyo's trust infrastructure runs in production.

20+

data space projects

60+

hubs in production

8+

enterprise customers

2019

on the market since

HOW TO START

Three steps to a pilot.

Open the demo

Live AAS Explorer with synthetic manufacturing data:
industry40.nexyo.io.

Pick a use case

Workshop: which assets and submodels create measurable value for your organisation first?

Start the pilot

Managed AAS Repository, Registry and governance, production-grade infrastructure from day one.

Let's talk.

The DPP deadlines won't wait: the earlier, the better.

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