Catena-X
Your Automotive Network

Catena-X - In Production

Auto Industry's first globally trusted and collaborative data ecosystem

Catena-X @ BASF

In Production

- Certificate Management
  - Certifications of sites are pushed to OEMs on requests
  - Easy to share certificates to multiple customers
- Demand & Capacity Management
  - With OEM
  - Ready to scale with Tiers

Pre-production

- Certificates of Analysis
  - Former part of Traceability – independent standard to be released soon

	OEM1	OEM2	Tier-1
Catena-X Use Cases	**Certificate Management**		**Certificate Management**
	DCM		
	PCF	**PCF**	**PCF**
	CoA		CoA

Auto Industry's first globally trusted and collaborative data ecosystem

Catena-X @ Flex Automotive

In Production

- Certificate Management
  - Quality certifications of sites are pushed to OEMs on requests
  - Easy to share the certificates to multiple customers
- ECU Data
  - For Every ECU produced, data exchanged
  - Daily thousands of data exchange transactions across the 3 continents of Europe, North America & Asia

Pre-production

- Product Carbon Footprint (Carbon Accounting at product level) with focus on primary data for Scope3 emissions reduction
- Data driven quality management with focus on cost of poor quality/warranty costs reduction

	OEM1	OEM2	OEM3
Catena-X Use Cases	**Certificate Management**		**Certificate Management**
	ECU Data Exchange		
	Carbon Accounting Product Carbon Footprint (OEM-Flex-Tier)	Product Carbon Footprint (OEM-Flex-Tier)	
	Quality Management	Quality Management	

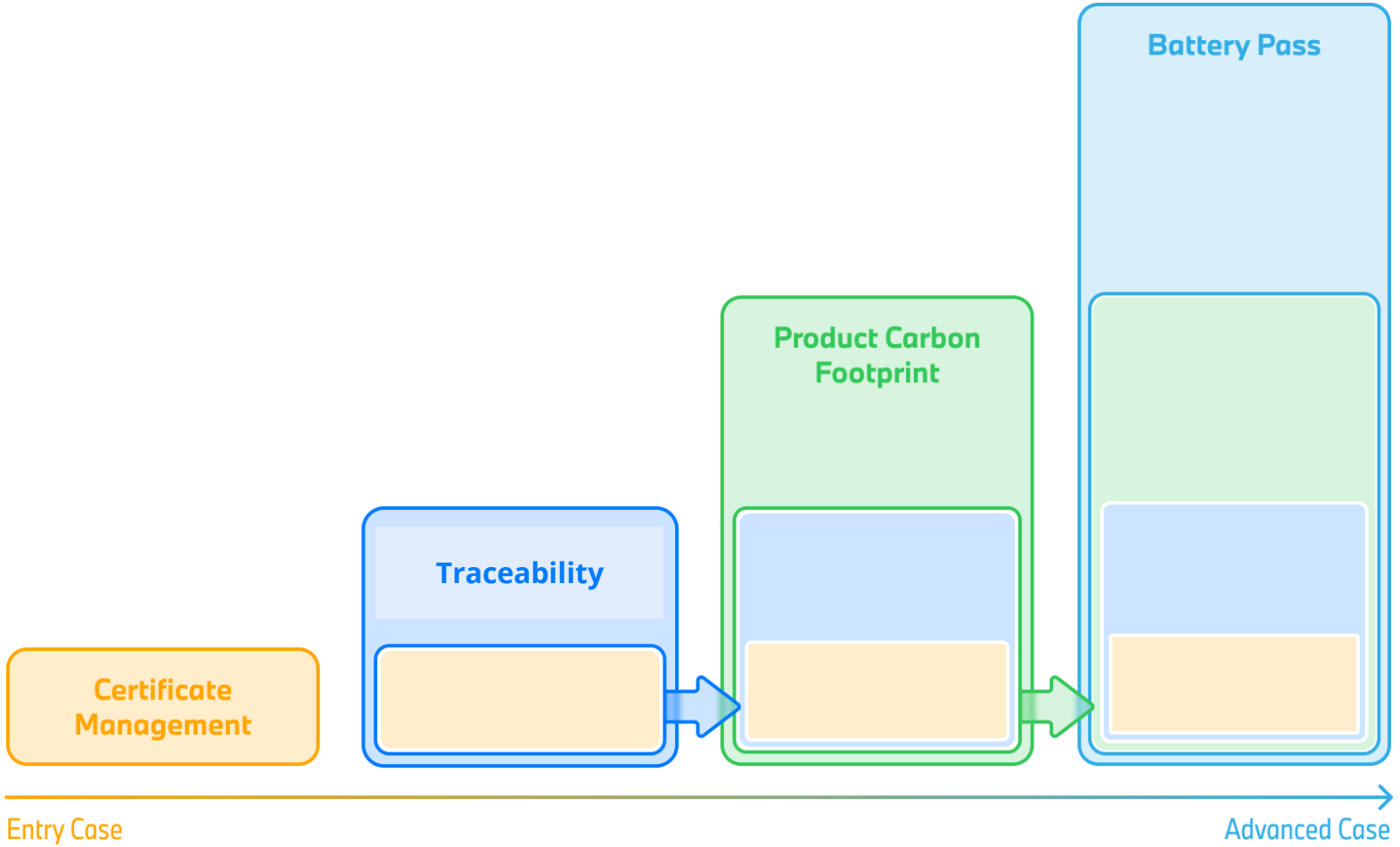
Strategy – Easy Access, Big Opportunites

Strategy

Every company is required to achieve a certain technological readiness. Some cases require a higher standard than others.

The great benefit: an already achieved standard can be used as a basis to build on for the higher and more complex standard.

In future many more use cases will be available on Catena-X. Be a pioneer and join the first use case „Certificate Management“ to benefit from business advantages first.



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Catena-X
Your Automotive Network

Company Certificate Use Case

CCM Use Case: Become a partner, scale efficiently

Company Certificate Management

Business Challenges

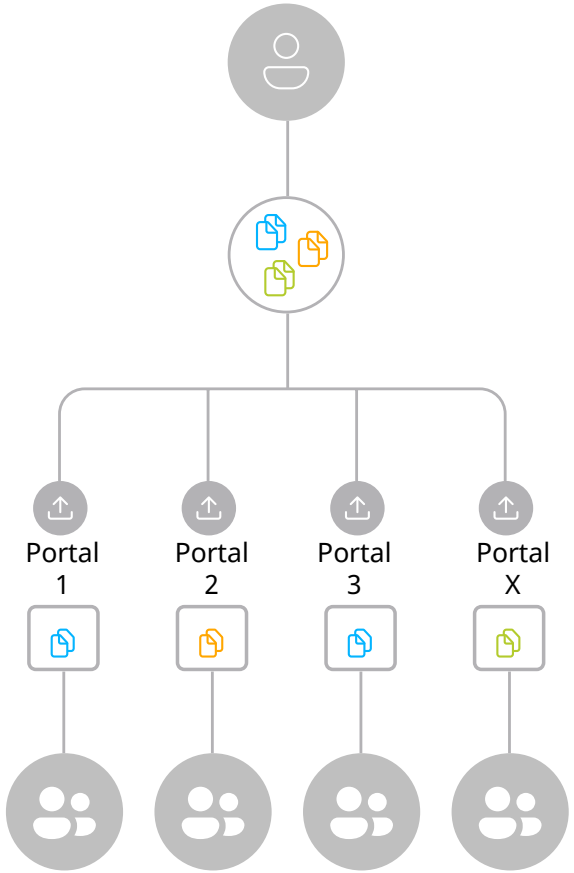
- Proving business compliance in tender processes
- Sharing data with multiple partners of the automotive value chain
- Fulfilling regulations

Catena-X Solution

- Create your unique & first DIGITAL Company Identity (BPN)
- Connect your company to the data space and share company certificates with all business partners

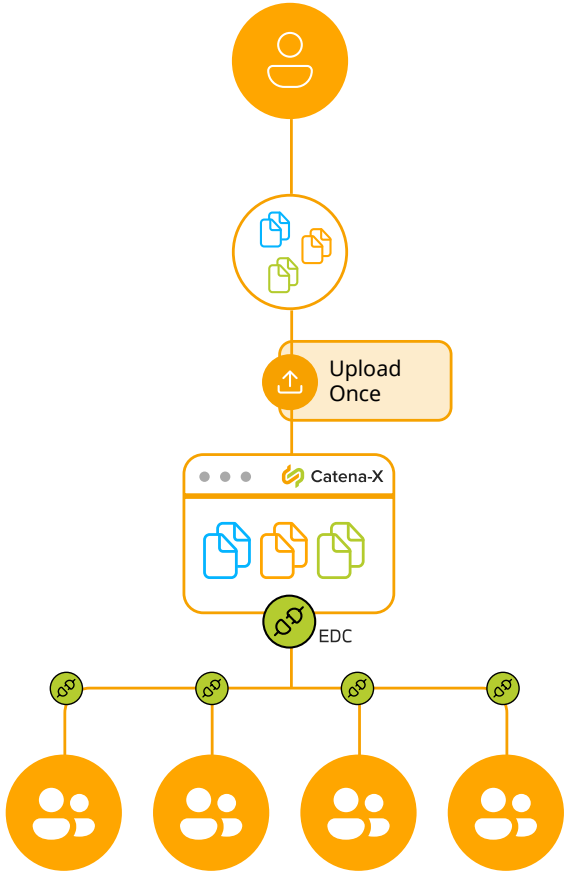
Current Challenge

100 Customers = 100 Portals



Catena-X Solution

100 Customers = 1 Portal

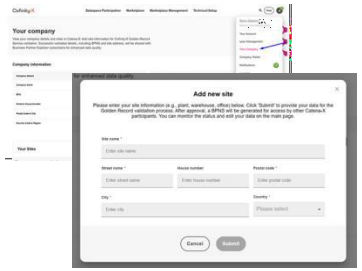


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The Company Certificate Management Process

The start of the process assumes a Catena-X registered company with a registered connector.

Select the certificates and the business sites associated with them



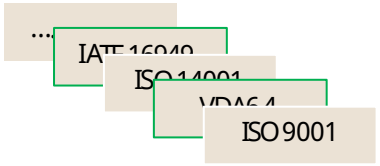
Select your certificate management application

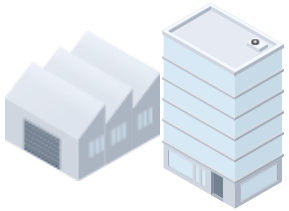


Provide access to business partners that will automatically receive or collect these certificates.

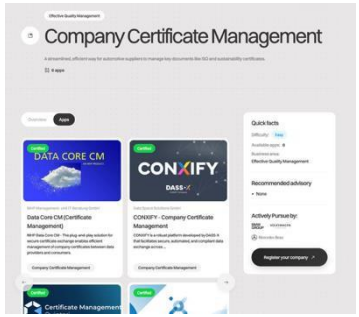
Exchange

1 — 2 — 3 — 4 — 5 — 6





Set up your chosen business locations on the Portal – Access User Guide here



Access Marketplace here

Upload Certificate PDFs according to the Catena-X Data Model



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Company Certificate Management Visualized



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Company Certificate Management Data Model

What data variables are wrapping the certificate? Non-extensive

- **BPNL (Business Partner Number Legal Entity):** A BPNL uniquely identifies the certified legal entity for which the certificate is issued.
- **Certificate Type:** CertificateType specifies the certification type assigned to the BPN, covering various standards such as ISO, IATF, VDA, and security certifications.
- **Registration and Issuing:** The issuing authority and registration number identify who issued the certificate and the certificate's unique reference at that authority.
- **Area of Application:** areaOfApplication describes the specific application scope or details covered by the certificate.
- **Enclosed Sites / Addresses:** enclosedSites lists additional certified locations (BPNS or, if needed, BPNA) associated with the main BPN.
- **Validity:** validity indicates the start and end dates for which the certificate is valid, with 31.12.9999 used to denote no expiration.
- **Trust Level:** trustLevel defines how reliably the certificate can be validated, ranging from none to trusted.
- **Validator:** validator identifies the entity responsible for validating the certificate information, ideally the issuing authority but potentially other accepted validators.
- **Certificate Uploader:** uploader specifies the company (identified by a BPN) that originally provided or uploaded the certificate.


```
{
  "header" : {
    "senderBpn" : "BPNL0000000001AB",
    "senderFeedbackUrl": "https://domain.tld/path/to/api",
    "context" : "CompanyCertificateManagement-CCMAPI-Push:1.0.0",
    "messageId" : "3b4edc05-e214-47a1-b0c2-1d831cdd9ba9",
    "receiverBpn" : "BPNL0000000002CD",
    "sentDateTime" : "2025-05-04T00:00:00-07:00",
    "version" : "3.1.0"
  },
  "content": {
    "businessPartnerNumber" : "BPNL0000000001AB",
    "enclosedSites" : [ {
      "areaOfApplication" : "Development, Marketing und Sales and also Procurement for interior
components",
      "enclosedSiteBpn" : "BPNS00000003AYRE"
    } ],
    "registrationNumber" : "12 198 54182 TMS",
    "uploader" : "BPNL0000000001AB",
    "document" : {
      "documentID" : "UUID--123456789",
      "creationDate" : "2024-08-23T13:19:00.280+02:00",
      "contentType" : "application/pdf",
      "contentBase64" : "iVBORw0KGgoAAdsfwerTETEfdgd"
    },
    "validator" : {
      "validatorName" : "Data service provider X",
      "validatorBpn" : "BPNL00000007YREZ"
    },
    "validUntil" : "2026-01-24",
    "validFrom" : "2023-01-
    25", "trustLevel" :
    "none", "type" : {
      "certificateVersion" : "2015",
      "certificateType" : "ISO9001"
    },
    "areaOfApplication" : "Development, Marketing und Sales and also Procurement for interior
components",
    "issuer" : {
      "issuerName" : "TÜV",
      "issuerBpn" : "BPNL133631123120"
    }
  }
}
```


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Company Certificate Management Standard

- This standard applies to **business application and enablement service providers offering solutions** for managing, exchanging, and returning company certificates.
- It is also relevant to **data providers and consumers who exchange certificates** through such solutions.

Standard: CX-0135 BP Company Certificate Management

Certificate Types

- IATF 16949 (International Automotive Task Force)
- ISO 14001
- ISO 9001
- ISO 45001, OHSAS 18001
- ISO/IEC 27001
- ISO 50001
- ISO/IEC 17025
- ISO 15504 (SPICE)
- ISO 20000
- ISO 22301
- AEO
- VDA6.4

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Company Certificate Management Portfolio

CX certified Solution	Company
AWS Company Certificate Management	AWS Web Services EMEA SARL
Connect & Integrate	T-Systems International GmbH
CONXIFY	Data Space Solutions GmbH
CS Mobility Connect	Circular Solution Co., Ltd
Data Space OS Certificate Management	Cofinity-X GmbH
CONXIFY	Data Space Solutions GmbH
Data Core Certificate Management	MHP Management- und IT-Beratung GmbH
LKS Next Company Certificate Management Solution	LKS Next
Manufacturing-X Dataspace SaaS Platform	IBCT Co., Ltd.
PACIFIC	BASF SE
SAIFTY	coac GmbH
sovity Quintari Company Certificate	sovity GmbH
TME Company Certificate Management Solution	TRIMEK METROLOGICAL ENGINEERING

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Want to learn more on CCM?

- The **CCM KIT** aims to
- *"**k**eep **i**t **t**ogether"*:

- ➢ Vision & Mission
- ➢ Business Process and Use Cases
- ➢ Semantic Models
- ➢ References

CCM Standard

CCM KIT

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