

PCF DATA MODEL: MIGRATION V7 – V9

GUIDANCE

Released July 2026
Released Version: 1.0



Introduction

Purpose of this Document

The Catena-X Product Carbon Footprint (PCF) data model provides the technical foundation for the standardized exchange of PCF data across the supply chain. With the transition from Version 7.0.0 to Version 9.0.0, significant enhancements have been introduced to align the model with the PACT Framework v3.0, address new sustainability requirements, and support synchronous data exchange within the Catena-X network.

This migration guide is intended for all organizations that create, manage, or process PCF datasets based on Version 7.0.0 and need to migrate them to Version 9.0.0.

Content and structure of this document

The document explains the key differences between the two versions, outlines the required migration steps, and provides a comparison table with a dedicated comments section to support the documentation of migration decisions and implementation details.



Target Audiences of This Document

This guide addresses three primary target groups, each playing a different role in the PCF data exchange process.

Application Providers

Application Providers are companies or development teams that offer software platforms, calculation tools, or data exchange solutions for PCF data exchange within the Catena-X network.

Migration Relevance:

- Implement the new Version 9 (V9) schema in their applications, including APIs, database models, and validation logic.
- Provide migration capabilities that enable customers to automatically transform existing Version 7 (V7) datasets into the new format.
- Support both V7 and V9 during the transition period within the network.
- Update user interfaces and data entry forms to accommodate new mandatory V9 fields.
- Adapt import and export interfaces to comply with the new JSON schema.

Data Providers

Data Providers are companies (typically suppliers) that calculate PCF values and share them with their customers through the Catena-X network.

Migration Relevance:

- Migrate existing V7 datasets to the new V9 data model without requiring a complete recalculation of PCF values.
- Populate new mandatory fields (for example, `retroOrProspectivePcfType` and `ccsTechnologicalCO2CaptureIncluded`) with valid values.
- Update the `specVersion` attribute in all existing and newly created datasets.
- Communicate migration timelines and related changes to data consumers.

Data Consumers

Data Consumers are companies (typically OEMs or Tier-1 suppliers) that receive and process PCF data from their suppliers.

Migration Relevance:

- Adapt internal systems to receive and process V9 datasets.
- Ensure backward compatibility by handling V7 datasets that may still be exchanged during the transition period.
- Correctly interpret new and renamed fields within existing data processing pipelines.
- Update validation rules and calculation logic to support the new V9 fields.



Use Cases for Data Migration

The migration of PCF data from Version 7.0.0 (V7) to Version 9.0.0 (V9) is relevant in two primary scenarios.

Data Consumer / Receiver Perspective

Current Situation

As a Data Consumer (typically an OEM or Tier-1 manufacturer), you receive PCF data from your suppliers and process it within your own systems for product carbon footprint calculations, sustainability reporting, or other business purposes.

Use Case

As a Consumer, I need to receive PCF data from my suppliers in the new V9.0.0 format and integrate it into my calculation and reporting processes. During the transition period, I must be able to process both legacy V7 datasets and new V9 datasets. In addition, my software or platform must correctly interpret and utilize the new V9 fields in downstream calculations and analyses.

Key Requirements

- Support processing of both V7 and V9 datasets during the transition period.
- Correctly interpret renamed fields (for example, `unitaryProductAmount` → `declaredUnitAmount`).
- Process newly introduced V9 fields, particularly those related to distribution-phase emissions and attestation information.
- Update internal systems to support the V9 schema, including import logic, validation rules, and calculation formulas.

Data Provider / Supplier Perspective

Current Situation

As a Data Provider (typically a supplier), you have already created, calculated, and possibly shared PCF datasets based on the V7.0.0 data model. These datasets are stored in your calculation or data exchange platform and serve as the foundation for future PCF requests from your customers.

Use Case

As a Provider, I want to migrate my existing PCF datasets from the V7.0.0 data model to the new V9.0.0 model without having to recalculate all product carbon footprints from scratch. The goal is to preserve data continuity (including product identifiers, PCF IDs, and predecessor references) while ensuring that all new mandatory V9 fields are populated with valid values.

Key Requirements

- Map existing V7 fields to the V9 data structure, including fields that have been renamed.



- Populate new mandatory V9 fields with appropriate default or determined values (for example, `retroOrProspectivePcfType` and `ccsTechnologicalCO2CaptureIncluded`).
- Update the `specVersion` field to `urn:io.catenax.pcf.datamodel:version:9.0.0`.
- Generate a new PCF ID and reference the previous PCF ID in the `precedingPcfIds` field.
- Validate migrated datasets against the V9 schema before sharing them again.

Key Changes from V7.0.0 to V9.0.0

The PCF data model Version 9.0.0 (V9) represents a significant evolution of Version 7.0.0 (V7). The main drivers behind these changes are:

- Alignment with the **WBCSD PACT Framework Version 3.0** (Pathfinder Framework)
- Introduction of the **distribution stage** as a separate emissions category
- Enhanced support for **attestations and compliance evidence**, including declarations of conformity and certification information
- Improved differentiation between **PCF types** (retrospective vs. prospective) and the treatment of **CCS/BECCS technologies**

The following table highlights the differences between V7 and V9 and provides guidance on how data should be handled during the migration process.

Migration Limitations and Interpretation of the Comparison Table

When migrating PCF datasets from V7 to V9, it is important to recognize that not all datasets can be converted automatically without additional validation. Certain product categories may require further assessment and coordination between data providers and data consumers to ensure that the migrated data remains accurate and compliant with the intended business and regulatory context.

Products that are marketed or sold as an environmental premium should not be converted by a data consumer without prior consultation with the original data provider. In addition, products that may contain significant but undocumented biogenic carbon content should not be migrated solely through automated conversion mechanisms, as important information required by the V9 model may be unavailable or difficult to derive reliably from the existing V7 dataset.

To support the migration analysis, the comparison table included in this document uses color-coded indicators to highlight the status of individual attributes:

- **Red marked field** indicates that the attribute type has been changed
- **Blue line** indicates that the attribute name and/or datatype has been changed and the mapping between V7 and V9 field need to be considered for the migration
- **Grey line** indicates that the attribute and datatype is still the same and the value can be taken over from V7 as is.

This color-coding helps application providers, data providers, and data consumers quickly identify areas that require attention and distinguish them from attributes that can be transferred directly to the new data model.



Field Nr.	Field label	Technical field Name V9.0.0	Mandatory (M) Optional (O) Default (D)	Type	Technical Fieldname V7.0.0	Recommended values	Explanation and alternatives	Sample values
Scope of PCF Form								
1	Data model and version	specVersion	M	string	specVersion	urn:io.catenax.pcf.datamodel:version:10.0.0	The data model version must change from 7.0.0 to 9.0.0 or 10.0.0	
2	Partial or a full PCF declaration	partialFullPcf	D	string array	partialFullPcf			cradle-to-gate
Company and Product Information								
Company Information								
3	Company name	companyName	M	string	companyName	Take over from V7		My Corp
4	Company Ids	companyIds	M	string array	companyIds	Take over from V7		urn:bpn:BPNL00000000DWF
Product Information								
5	Product name	productNameCompany	M	string	productNameCompany			
6	Product identifiers	productIds	M	string array	productIds			
7	Product description	productDescription	O	string	productDescription			Ethanol, 95% solution
8	Product classification	productClassifications	O	string array	n/a	Leave empty	Was a default value in V7 (productCategoryCpc = 011-99000) which is not conform with V9 anymore	urn: cpc:49129 urn: cas:9003-07-0 urn:cn:3926.90.97
9	Declared unit	declaredUnitOfMeasurement	M	string	declaredUnit			piece



Field Nr.	Field label	Technical field Name V9.0.0	Mandatory (M) Optional (O) Default (D)	Type	Technical Fieldname V7.0.0	Recommended values	Explanation and alternatives	Sample values
10	Quantity (of declared unit)	declaredUnitAmount	M	decimal	unitaryProductAmount			1
11	Product mass [kg] per declared unit amount	productMassPerDeclaredUnit	M	decimal	productMassPerDeclaredUnit			0.123
PCF Assessment and Methodology								
PCF Assessment Information								
ID and Version								
12	PCF ID	Id	M	string	Id	Create a new Id		3893bb5d-da16-4dc1-9185-11d97476c254
13	Previous PCF IDs	precedingPfIds	O	string array	precedingPfIds	Id of Pcf declaration in v7.0.0 In case there are values already provided, create a string array	Data type is according V10.0.0 as defined in semantic data model V3 from very beginning.	9c5b94b1-35ad-49bb-b118-8e8fc24abf8
14	PCF version	version	D	integer	version			0
15	PCF status	status	D	string	status			Active
16	Retrospective or prospective PCF types	retroOrProspectivePcfType	M	string	n/a	Retrospective PCF	There were no prospective PCFs according to the Catena-X Rulebook Version 3 yet (which is the basis for the 7.0.0 data model).	Retrospective PCF
Boundary Specifications								



Field Nr.	Field label	Technical field Name V9.0.0	Mandatory (M) Optional (O) Default (D)	Type	Technical Fieldname V7.0.0	Recommended values	Explanation and alternatives	Sample values
17	Cut-off rule	exemptedEmissionsPercent	M	decimal (Range 0-10)	exemptedEmissionsPercent			3
18	Exemption rules: explanation	exemptedEmissionsDescription	O	string	exemptedEmissionsDescription			No exemption
Technology								
19	Important unit processes and used technologies	boundaryProcessesDescription	O	string (free text)	boundaryProcessesDescription			e.g. EAF route for steel production
20	CCS/BECCS applied	ccsTechnologicalCO2CaptureIncluded	M	boolean	n/a	FALSE	CCS and BECCS are hardly applied yet (2025/2026) and expensive operations, a supplier would almost certainly make transparent if there was an investment into this technology, to sell it as eco-premium.	FALSE
Geography								
21	City/state as country subdivision	geographyCountrySubdivision	O	string	geographyCountrySubdivision			DE-BY
22	Geography country	geographyCountry	O	string	geographyCountry			DE
23	Geography with region or subregion	geographyRegionOrSubregion	M	string	geographyRegionOrSubregion			Europe
Time								
24	Reference period start	referencePeriodStart	M	date time (ISO 8601; UTC Time zone)	referencePeriodStart			2021-11-20T08:30:00.000Z



Field Nr.	Field label	Technical field Name V9.0.0	Mandatory (M) Optional (O) Default (D)	Type	Technical Fieldname V7.0.0	Recommended values	Explanation and alternatives	Sample values
25	Reference period end	referencePeriodEnd	M	date time (ISO 8601; UTC Time zone)	referencePeriodEnd			2022-11-20T08:30:00.000Z
26	Date of issue	created	M	date time (ISO 8601; UTC Time zone)	created			2023-11-20T08:30:00.000Z
27	Validity period start	validityPeriodStart	O	date time (ISO 8601; UTC Time zone)	created			2022-11-20T08:30:00.000Z
28	Validity period end	validityPeriodEnd	M	date time (ISO 8601; UTC Time zone)	validityPeriodEnd	"Date of issue" + 1 year	The minimum validity period of a PCF according to the Catena-X rulebook is one year, unless a PCF is revoked.	2025-11-20T08:30:00.000Z



PCF Methodology								
Standards								
29	Cross-sectoral standards applied	crossSectoralStandards	M	string array (value list)	crossSectoralStandardsUsed:crossSectoralS tandard	Closed value list. Several values possible In case, none of these items from closed value list was used before, then "Other" will be default.	ISO 14067; Pathfinder v1; PACT-1.0; Pathfinder v2; PACT-2.0; Pathfinder v3; PACT-3.0; GHG Protocol Product; PAS 2050; ISO 14040-44; PEF; Other	ISO 14067
30	Product or sector rules	productOrSectorSpecificRules	M	string array	productOrSectorSpecificRules:ruleNames	Open value list. If there is no specification available (e.g. if the data set is from another initiative), default as "unspecified".	At least one of the following: Catena-X Rulebook V1; Catena-X Rulebook V2; Catena-X Rulebook V3; Catena-X Rulebook V4; Additional values allowed: TfS Guideline V1.0; TfS Guideline V2.0; TfS Guideline V3.0; World Steel LCIA methodology report; International Aluminum Good Practice Guidance PCF v2.0; European Aluminum Methodological Guidance Rev. 8; no product or sector rule applied	Catena-X Rulebook V4
GWP Characterization Factor Details								
31	IPCC report version of GWP values	ipccCharacterizationFactors	M	string	characterizationFactors	Closed value list	AR6	AR6
Allocation in Foreground (Own Processes)								
32	Allocation rules used	allocationRulesDescription	O	string	allocationRulesDescription			



33	Allocation approach used for waste incineration with energy recovery	allocationWasteIncineration	M		string	extTFS_allocationWasteIncineration		
34	Calculation approach for material recycling	allocationRecycledCarbon	O		string	n/a		cut-off
Mass balancing Information								
35	Mass Balancing used	massBalancingUsed	M		boolean	n/a	FALSE	Even if mass balancing was used, proportional allocation is used, unless it is an eco-premium product. If mass balancing proportional attribution is applied, this has no compliance implications. TRUE
36	Free attribution in mass balancing	freeAttributionInMassBalancing	Mif	M if "Mass Balancing used" = "TRUE"	boolean	n/a		Can be left empty, or set false, unless it is an eco-premium product (e.g. chemcycling, biobased content, ...) credit based mass balancing is a high effort activity. FALSE
37	Mass Balancing Certificate Scheme	massBalancingCertificateScheme	Mif	M if "Mass Balancing used" = "TRUE"	string	n/a		Can be left empty, unless it is an eco-premium product (e.g. chemcycling, biobased content, ...) credit based mass balancing is a high effort activity. ISCC+
Data Sources and Quality								
38	Primary Data Share (PDS)	primaryDataShare	M 2027		decimal (Range 0-100)	primaryDataShare		7.2
39	Secondary data source and version	secondaryEmissionFactorSources	M		string array (free text)	secondaryEmissionFactorSources:emissionFactorDS	"unspecified" can be used as a value, if not available	ecoinvent 3.8
40	Technological representativeness	technologicalDQR	M 2027		decimal (Range 1-5)	dqi:technologicalDQR	Do not share the value	As there is a new and incompatible rating, this value cannot be migrated. 2.0
41	Temporal representativeness	temporalDQR	M 2027		decimal (Range 1-5)	dqi:temporalDQR	Do not share the value	As there is a new and incompatible rating, this value cannot be migrated. 2.0



42	Geographical representativeness	geographicalDQR	M 2027	decimal (Range 1-5)	dqi:geographicalDQR	Do not share the value	As there is a new and incompatible rating, this value cannot be migrated.	2.0
Verification and Certification Shares								
43	PCS	programCertificationShare	O	decimal (Range 0-100)	n/a			50.50
44	3PVS	productVerificationShare3rdParty	O	decimal (Range 0-100)	n/a			0.00
45	2PVS	productVerificationShare2ndParty	O	decimal (Range 0-100)	n/a			0.00
46	1PVS	productVerificationShare1stParty	O	decimal (Range 0-100)	n/a			0.00
General								
47	Comment	comment	O	string (free text)	comment	This data set has been upgraded by the data [consumer/provider] from a version 7.0.0 to 9.0.0 on the date --:--:--"		
48	Legal Statement	pcfLegalStatement	O	string (free text)	pcfLegalStatement			The provided PCF data does not imply any warranties.
Product Life Cycle Stages and Emissions								
Production Stage								
49	GWP total incl. bio. Uptake	pcfIncludingBiogenicUptake	M	decimal (Unit kg CO2e)	pcfIncludingBiogenic	GWP total excl. bio. Uptake	"=""-if documented in v7.0.0, keep in v9.0.0 -if not documente: -""if biogenic carbon content"">0 --> GWP total incl. bio. Uptake=GWP total excl. bio. Uptake*(1-""Biogenic carbon content""*(44/12))"" -if there is no ""biogenic carbon content"" documented, set ""GWP total incl. bio. Uptake"" = ""GWP total excl. bio. uptake""	1.90



50	GWP total excl. bio. uptake	pcfExcludingBiogenicUptake	M	decimal (>=0; Unit kg CO2e)	pcfExcludingBiogenic	2.90
51	GWP fossil	fossilGhgEmissions	O	decimal (>=0; Unit kg CO2e)	fossilGhgEmissions	0.5
52	GWP biogenic emissions other than CO2	biogenicNonCO2Emissions	O	decimal (>=0; Unit kg CO2e)	n/a	1.0
53	GWP biogenic CO2-uptake (biogenic CO2 contained in the product)	biogenicCO2Uptake	O	decimal (<=0; Unit kg CO2e)	biogenicCarbonEmissionsOtherThanCO2	-1.00
54	GWP land use change (LUC, excluding iLUC)	landUseChangeGhgEmissions	O	decimal (>=0; Unit kg CO2e)	dlucGhgEmissions.	1.40
55	GWP land Management CO2 Emissions	landManagementBiogenicCO2Emissions	O	decimal (>=0; Unit kg CO2e)	n/a	0.00
56	GWP land Management CO2 Removals	landManagementBiogenicCO2Removals	O	decimal (<=0; Unit kg CO2e)	n/a	0.00
57	GWP aviation emissions (upstream)	aircraftGhgEmissions	O	decimal (>=0; Unit kg CO2e)	aircraftGhgEmissions	0.0
Packaging Stage						
58	Packaging emissions included	packagingEmissionsIncluded	M	boolean	packagingEmissionsIncluded	TRUE



59	Packaging GWP total incl. bio. uptake	packagingPcfIncludingBiogenic Uptake	0	decimal (Unit kg CO2e)	n/a		0.20
60	Packaging GWP total excl. bio. uptake	packagingPcfExcludingBiogenic Uptake	0	decimal (>=0; Unit kg CO2e)	packagingGhgEmissions		0.20
61	Packaging GWP fossil	packagingFossilGhgEmissions	0	decimal (>=0; Unit kg CO2e)	n/a		0.20
62	Packaging GWP biogenic emissions other than CO2	packagingBiogenicNonCO2Emissions	0	decimal (>=0; Unit kg CO2e)	n/a		0.00
63	Packaging GWP biogenic CO2-uptake (biogenic CO2 contained in the product)	packagingBiogenicCO2Uptake	0	decimal (<=0; Unit kg CO2e)	n/a		0.00
64	Packaging GWP land use change (LUC, excluding iLUC)	packagingLandUseChangeGhgEmissions	0	decimal (>=0; Unit kg CO2e)	n/a		0.00
65	Packaging GWP land Management CO2 Emissions	packagingLandManagementBiogenicCO2Emissions	0	decimal (>=0; Unit kg CO2e)	n/a		0.00
66	Packaging GWP land Management CO2 Removals	packagingLandManagementBiogenicCO2Removals	0	decimal (<=0; Unit kg CO2e)	n/a		0.00
67	Packaging GWP aviation emissions (upstream)	packagingAircraftGhgEmissions	0	decimal (>=0; Unit kg CO2e)	n/a		0.00
Distribution Stage							



68	Distribution Stage	distributionStageIncluded	M	boolean	n/a	if Distribution stage GWP total excl. bio. Uptake>0; TRUE else FALSE	if there is an emission documented, the attribute can be considered true. According to the principle of conservativeness, it has to be set False, if the attribute or the emission wasn't documented. This avoids underestimating emissions.	TRUE
69	Distribution stage GWP total incl. bio. uptake	distributionStagePcfIncludingBiogenicUptake	O	decimal (Unit kg CO2e)	distributionStagePcfIncludingBiogenic			0.15
70	Distribution stage GWP total excl. bio. uptake	distributionStagePcfExcludingBiogenicUptake	O	decimal (>=0; Unit kg CO2e)	distributionStagePcfExcludingBiogenic			0.15
71	Distribution stage GWP fossil	distributionStageFossilGhgEmissions	O	decimal (>=0; Unit kg CO2e)	distributionStageFossilGhgEmissions			0.15
72	Distribution stage GWP biogenic emissions other than CO2	distributionStageBiogenicNonCO2Emissions	O	decimal (>=0; Unit kg CO2e)	n/a			0.00
73	Distribution stage GWP biogenic CO2-uptake (biogenic CO2 contained in the product)	distributionStageBiogenicCO2Uptake	O	decimal (<=0; Unit kg CO2e)	distributionStageBiogenicCarbonEmissionsOtherThanCO2			0.00
74	Distribution stage GWP land use change (LUC, excluding iLUC)	distributionStageLandUseChangeGhgEmissions	O	decimal (>=0; Unit kg CO2e)	distributionStageDlucGhgEmissions			0.00
75	Distribution stage GWP land Management CO2 Emissions	distributionStageLandManagementBiogenicCO2Emissions	O	decimal (>=0; Unit kg CO2e)	n/a			0.00
76	Distribution stage GWP land Management CO2 Removals	distributionStageLandManagementBiogenicCO2Removals	O	decimal (<=0; Unit kg CO2e)	n/a			0.00



77	Distribution stage GWP aviation emissions (production gate to customer gate if applicable)	distributionStageAircraftGhgEmissions	O		decimal (Unit kg CO2e)	distributionStageAircraftGhgEmissions		0.00
Carbon Content								
78	Total carbon content	carbonContentTotal	O		decimal (Unit kg C)	carbonContentTotal	0,00	"-if documented in v7.0.0, keep in v9.0.0 -if ""GWP total incl. bio. Uptake"" ≠ ""GWP total excl. bio. uptake"": ""Biogenic carbon content""= (""GWP total iexcl. bio. Uptake"" - ""GWP total incl. bio. uptake"")(12/44) -if not, according to the principle of conservativeness, this attribute is to be set 0"
79	Fossil carbon content	fossilCarbonContent	O		decimal (Unit kg C)	fossilCarbonContent		0.25
80	Biogenic carbon content	biogenicCarbonContent	O	M if "Mass Balancing used" = "TRUE"	decimal (Unit kg C)	biogenicCarbonContent		0.27
81	Packaging biogenic carbon content	packagingBiogenicCarbonContent	O		decimal (Unit kg C)	n/a		0.00
82	Recycled carbon content	recycledCarbonContent	O		decimal (Unit kg C)	n/a		0.00
Attestation of Conformance			O			object array		
83	Attestation type	AttestationType	Mif	M if declaration of conformance is provided, otherwise not applicable	string (value list & free text)	n/a	open value list	PCF Program certification; PCF 3rd party verification; PCF 2nd party verification; PCF 1st party verification; Mass balance certificate; ... PCF Program Certification



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84	Conformant with cross-sectoral standards or product or sector rules	standardName	Mif	M if declaration of conformance is provided , otherwise not applicable	string array (value list & free text)	n/a	open value list	TfS Guideline V1.0; TfS Guideline V2.0; TfS Guideline V3.0; Catena-X Rulebook V1; Catena-X Rulebook V2; Catena-X Rulebook V3; Catena-X Rulebook V4; World Steel LCIA methodology report; International Aluminum Good Practice Guidance PCF v2.0; European Aluminum Methodological Guidance Rev. 8	Catena-X Rulebook v4.0
85	Attestation scheme standard	attestationStandard	Mif	M if declaration of conformance is provided , otherwise not applicable	string array (value list & free text)	n/a	open value list	PCF Verification and PCF Program Certification Framework V2	PCF Verification and PCF Program Certification Framework V2
86	Attestation ID	attestationOfConformanceId	Mif	M if declaration of conformance is provided , otherwise not applicable	string array (free text)	n/a			4a7c4482-8431-4c31-a895-70341d2a1376
87	Link to attestation	attestationOfConformanceLink	Oif	O if declaration of conformance provided , otherwise not applicable	string (free text)	n/a	link to document on website		www.Certifierrepositary_example.com/Certificate_123456
88	Issuer of attestation	providerName	Mif	M if declaration of conformance provided	string (free text)	n/a	for 3rd party PCF verification and PCF program certification only		TÜV-X



89	Issuer of attestation ID	providerID	Oif	O if declarati on of conform ance provided , otherwis e not applicabl e	string array (According URN: FPI as defined by TfS and WBCSD)	n/a	BPNL	urn: cofinity-x.com: bpn: BPNL0000000AXXX "
90	Date of attestation	completedAt	Oif	O if declarati on of conform ance provided , otherwis e not applicabl e	date time (ISO 8601; UTC Time zone)	n/a		2022-01- 01T00:00:01Z



Explanatory Notes

Attestation Information

Version 9 introduces a comprehensive **attestation model** that provides a structured way to document compliance declarations, verifications, and certifications. These fields are **conditionally mandatory** (Mandatory if applicable — Mif) when a declaration of conformity is provided:

- **AttestationType** – Type of attestation (for example, PCF Program Certification or PCF Third-Party Verification)
- **standardName** – Referenced standard or Product-Specific Rule (PSR) (for example, Catena-X Rulebook V4)
- **attestationStandard** – Attestation framework used (for example, PCF Verification Framework V2)
- **attestationOfConformanceId** – Unique certificate identifier (UUID v4)
- **attestationOfConformanceLink** – Link to the attestation document (optional)
- **providerName** – Legal name of the organization issuing the attestation
- **providerID** – Unique identifier of the attestation provider (BPNL)
- **completedAt** – Timestamp indicating when the attestation was issued (ISO 8601)

From a **Data Provider** perspective, attestation information can be added retrospectively during the migration process if such information is available.

From a **Data Consumer** perspective, as well as during an automated data migration, it should be assumed that no attestation exists unless explicitly provided. In such cases, these fields may remain empty and should not prevent successful migration or processing of the dataset.



Documents:

Catena-X PCF Rulebook: <https://catenax-ev.github.io/docs/next/non-functional/overview>

Catena-X PCF aspect model: <https://github.com/eclipse-tractusx/sldt-semantic-models/tree/main/io.catenax.pcf/9.0.0/gen>

Additional sources of information:

Catena-X Library: <https://catenax-ev.github.io/>

Catena-X Campus: <https://catena-x.academy/de/>

Product classification or category identifiers:

UN Central Product Classification (CPC): <https://unstats.un.org/unsd/classifications/Econ/cpc>

CAS Registry Number: <https://www.cas.org/cas-data/cas-registry>

Combined Nomenclature (EU): <https://trade.ec.europa.eu/access-to-markets/en/content/combined-nomenclature-0>

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Register of associations at the district court Berlin (Charlottenburg) Nr D1537

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