



Catena-X






















Modular System Release Jupiter Version 3.3.0

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Supported by
Federal Ministry
for Economic Affairs
and Climate Action



Modular System Release Jupiter - Overview

Modular System Catena-X Certification																		
Data Provider & Consumer	Enablement Service Provider		Business Application Provider												Core Service Provider	Onboarding Service Provider	Sandbox Service Provider	Value Added Services
																		
		Connector: Every Solution must be enabled to use an EDC or have an integrated EDC																
				Semantic: Digital Twin or Agents ¹														

¹ Each standard in the respective use case defines for itself which model may be used.

Detail View (1/3) | Business Application Provider



Modular System Catena-X Certification

Business Application Provider²

Use Case	Quality		Traceability	Behavioral Twin			PCF		Circularity				Eco Pass	ESS	MaaS		MP	DCM		PURIS					OSIM	
	As OEM data provider	As Supplier data provider		Traceability Use Case	Behavioral Twin Endurance Predictor	Behavioral Twin Endurance Estimator	Behaviour Twin Health Indicator	PCF Exchange	PCF Calculation	Secondary Material Content	EoL / Dismantling Services	CE-Assistant			Secondary Marketplace ⁴	Asset Tracking		Use Case Circular Economy - Digital Product Passport	ESS Use Case	Manufacturing Capability Exchange	Request for Quotation Exchange	Shop Floor Information Service	As a Supplier	As a Costumer		Delivery Information Exchange
Role / Capability	As OEM data provider	As Supplier data provider	Traceability Use Case	Behavioral Twin Endurance Predictor	Behavioral Twin Endurance Estimator	Behaviour Twin Health Indicator	PCF Exchange	PCF Calculation	Secondary Material Content	EoL / Dismantling Services	CE-Assistant	Secondary Marketplace ⁴	Asset Tracking	Use Case Circular Economy - Digital Product Passport	ESS Use Case	Manufacturing Capability Exchange	Request for Quotation Exchange	Shop Floor Information Service	As a Supplier	As a Costumer	Delivery Information Exchange	Short-Term Material Demand Exchange	Planned Production Output Exchange	Item Stock Exchange	Days of Supply Exchange	Online Control and Simulation
Base Standard	CX-0123		CX-0125	CX-0059	CX-0138	CX-0141	CX-0136		/	CX-0053		CX-0117	CX-0105 CX-0045	CX-0143	CX-0144	CX-0115	CX-0129	CX-0142	CX-0128		CX-0118	CX-0120	CX-0121	CX-0122	CX-0145	CX-0133
Additional	/	/	CX-0005 ¹	/	/	/	/	/	/	/	CX-0136 ⁶	/	/	/	/	/	/	/	CX-0146 ⁶					/		
Industry Core^{5,6}	/	/	CX-0127	/	/	/	CX-0126 ^R		CX-0126 CX-0127		/	CX-0127 ⁷	CX-0126 CX-0127	/	/	/	/	CX-0126 ⁸					/			
Connector³	CX-0018																									
Semantic	Digital Twin CX-0002 or Agents CX-0084																									
Provider Base	CX-0008 ⁸																									

¹ If "Additional" Standards are used or offered in a Solution, the certification of these Standards is required.
² Business Application Provider has to perform an interoperability check.
³ If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.
⁴ Can only be provided in combination with certified Core Services.
⁵ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.
⁶ When using certain features, the referenced section of the standard is required.
⁷ When using certain features, the focussed section of the standard is optional.
⁸ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).
^R Required.

Detail View (2/3) | Remaining Roles



Modular System Catena-X Certification						
	Data Provider & Consumer	Enablement Service Provider		Core Service Provider ⁵	Onboarding Service Provider ²	Sandbox Service Provider
Use Case	Connector	Connector as a Service	Digital Twin Registry as a Service	Core Services	Onboarding Services	Sandbox Services ⁴
Role / Capability	When using a CX-Certified enablement service, no separate certification is required	Connector CX-0018	Digital Twin Registry CX-0002	SSI: CX-0013 CX-0049 CX-0050 CX-0149	CX-0006 CX-0009	Connector: CX-0018 Onboarding: CX-0006 CX-0009
Base Standard	CX-0018			Portal: CX-0001 CX-0006 CX-0009 CX-0014 CX-0015 CX-0053 CX-0074		BPDM: CX-0010 CX-0011 CX-0012 CX-0053 CX-0074
Additional ¹	CX-0002 CX-0003 CX-0005 CX-0007 CX-0045 CX-0055 CX-0084 CX-0126 CX-0127	Backend Integration Pattern 1 CX-0002, CX-0003, CX-0055		Marketplace: CX-0054		Golden Record: CX-0076
		Backend Integration Pattern 2 CX-0055, CX-0084		BPDM: CX-0010 CX-0011 CX-0012		Identity Wallet: CX-0013 CX-0049 CX-0050 CX-0149
		Simple Data Exchanger CX-0007				Portal: CX-0001 CX-0006 CX-0009 CX-0014 CX-0015 CX-0053 CX-0074
		Data Chain CX-0005, CX-0045				Marketplace: CX-0054
		Provider Base: CX-0008 ³				

¹ If "Additional" Standards are used or offered in a Solution, the certification of these Standards is required.

² Limitations Jupiter: this role currently only covers part of the registration process in the Catena-X data space. The currently available process is depicted in figure "General Onboarding Process".

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁴ Catena-X Sandboxes contain all services required for the operation of a minimum valuable Catena-X data space, namely: CSP-B services (excluding the cleansing service of BPDM and GXDCH integration) and OSP services.

⁵ Core Services B lists Core Services that can only be operated once in the Catena-X data space due to business reasons or technical limitations and are therefore tendered via the nomination process of the Association.

Detail View (3/3) | Remaining Roles

Modular System Catena-X Certification							
Value Added Services ¹							
Use Case	Data Quality Dashboard	Bank Data Verification	Natural Person Screening	BPDM Fraud Prevention	Country Risk	Sanction Watchlist Dashboard	Company Certificate Management
Role / Capability	CX-0076 CX-0077	CX-0078	CX-0079	CX-0080	CX-0081	CX-0116	CX-0135
Base Standard							
Provider Base	CX-0008 ²						

¹ Can only be provided in combination with certified Core Services.

² TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



Modular System – Business Applikation Provider

Quality¹	As OEM data provider: CX-0123	As Supplier data provider: CX-0123
Connector²	CX-0018	
Semantic	Digital Twin: CX-0002 or Agents: CX-0084	
Provider Base	CX-0008 ³	

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



Modular System - Business Applikation Provider

Traceability ¹	CX-0125 Additional ² : CX-0005
Industry Core ^{5,6}	CX-0127: <i>It is tightly bound to the Industry Core, as Quality Alerts and Quality Investigation Requests should reference batches and/or serialized part instances as described in the standard CX - 0127 INDUSTRY CORE: PART INSTANCE.</i> <i>Regarding CX-0005: This standardization is built upon existing standards, such as CX-0127.</i>
Connector ³	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ⁴

¹ Business Application Provider has to perform an interoperability check.

² If "Additional" Standards are used or offered in a Solution, the certification of these Standards is required.

³ If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

⁴ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁵ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁶ When using certain features, the referenced section of the standard is required.



Modular System – Business Applikation Provider

Behavioral Twin ¹	Behavioral Twin Endurance Predictor: CX-0059	Behavioral Twin Endurance Estimator: CX-0138	Health Indicator: CX-0141
Industry Core ^{4, 5}			
Connector ²	CX-0018		
Semantic	Digital Twin: CX-0002 or Agents: CX-0084		
Provider Base	CX-0008 ³		

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁴ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁵ When using certain features, the referenced section of the standard is required.



Modular System – Business Applikation Provider

PCF¹	CX-0136
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

Modular System - Business Applikation Provider



Circularity ¹	Circularity Core: CX-0131			Secondary Marketplace ² :	Asset Tracking: CX-0105 CX-0045
	Secondary Material Content:	EoL / Dismantling Services:	CE-Assistant:		
Industry Core ^{4,5}	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i> CX-0127: <ul style="list-style-type: none"> - 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart" - 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt" 	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i> CX-0127: <ul style="list-style-type: none"> - 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart" - 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt" 	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i> CX-0127: <ul style="list-style-type: none"> - 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart" - 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt" 		
Connector ³	CX-0018				
Semantic	Digital Twin: CX-0002 or Agents: CX-0084				
Provider Base	CX-0008 ⁷				

¹ Business Application Provider has to perform an interoperability check.

² Can only be provided in combination with certified Core Services.

³ If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

⁴ When using certain features, the referenced section of the standard is required.

⁵ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁶ When using certain features, the focussed section of the standard is optional.

⁷ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



Modular System – Business Applikation Provider

Eco Pass¹	CX-0143
Industry Core^{4,5}	<p>CX-0126: <i>As described in the industry core standards CX-0126 and CX-0127, when digital twins MUST include the key digitalTwinType.</i></p> <p>CX-0127: <i>As described in the industry core standards CX-0126 and CX-0127, when digital twins MUST include the key digitalTwinType.</i></p>
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁴ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁵ When using certain features, the referenced section of the standard is required.



Modular System – Business Applikation Provider

ESS¹	CX-0144
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



Modular System – Business Applikation Provider

MaaS¹	Manufacturing Capability Exchange: CX-0115	CX-0129
Connector²	CX-0018	
Semantic	Digital Twin: CX-0002 or Agents: CX-0084	
Provider Base	CX-0008 ³	

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).





Modular System – Business Applikation Provider

Modular Production¹	Shop Floor Information Service: CX-0142
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



Modular System – Business Applikation Provider

DCM¹	CX-0128 Additional⁴: CX-0146: <i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i>
Industry Core^{4,5}	CX-0126: <i>Regarding CX-0128: When registering Submodels with semanticId WeekBasedMaterialDemand, the data provider (supplier) MUST reuse the IDs mandated in [CX-0126], section 2.1.4.</i> <i>Regarding CX-0146: This standard utilizes the Catena-X Material Global Asset ID as an optional property in the DemandAndCapacityNotification aspect model, that needs to be compliant to standard [CX-0126] Industry Core: Part Type.</i>
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁴ When using certain features, the referenced section of the standard is required.

⁵ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁶ When using certain features, the referenced section of the standard is required.

Modular System – Business Applikation Provider



PURIS¹	<p>CX-0118</p> <p>Additional⁵: CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i></p>	<p>CX-0120</p> <p>Additional⁵: CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i></p>	<p>CX-0121</p> <p>Additional⁵: CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i></p>	<p>CX-0122</p> <p>Additional⁵: CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i></p>	<p>CX-0145</p> <p>Additional⁵: CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications To enable a quick information flow outside a capacity group and the DCM process with regards to upcoming disruptions in the supply chain and potential effect beyond the one-to-one business relationship, a notifications functionality MAY be used. If a business partner decides to use this feature it MUST be used conforming to [CX-0146].</i></p>
Industry Core^{4,5}	<p>CX-0126:</p> <p>The definition of identification data (Catena-X ID, Asset Administration Shell ID, specific asset ID) MUST follow the Industry Core Part Type [CX-0126].</p>				
Connector²	CX-0018				
Semantic	Digital Twin: CX-0002 or Agents: CX-0084				
Provider Base	CX-0008 ³				

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

⁴ Digital Twins have to contain the defined Specific Asset Ids. Additional use case specific data models have to be provided as Digital Twin submodels. If the respective data models are used, these have to be certified against the specification defined within the Industry Core standard.

⁵ When using certain features, the referenced section of the standard is required.



Modular System – Business Applikation Provider

OSIM¹	CX-0133
Connector²	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 ³

¹ Business Application Provider has to perform an interoperability check.

² If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.

³ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP and TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).



The background features two large, overlapping, stylized shapes. The left shape is filled with orange diagonal stripes, and the right shape is filled with green vertical stripes. The text is centered over the white space between these shapes.

Data Consumer & Provider and Enablement Service Provider



Modular System – Data Provider and Consumer

Connector

When using a CX-Certified enablement service, no separate certification is required

CX-0018

Additional¹:

CX-0002

CX-0003

CX-0005

CX-0007

CX-0045

CX-0055

CX-0084

CX-0126

CX-0127

¹ If “Additional” Standards are used or offered in a Solution, the certification of these Standards is required.



Modular System – Enablement Service Provider

Connector as a Service	Connector as a Service CX-0018
	Additional¹: Backend Integration Pattern 1 CX-0002 CX-0003 CX-0055
	Additional¹: Backend Integration Pattern 2 CX-0055 CX-0084
	Additional¹: Simple Data Exchanger CX-0007
	Additional¹: Data Chain CX-0005 CX-0045
Provider Base	CX-0008 ²

¹ If “Additional” Standards are used or offered in a Solution, the certification of these Standards is required.

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Modular System – Enablement Service Provider

Digital Twin Registry as a Service	Digital Twin Registry aaS CX-0002
	Additional¹: Backend Integration Pattern 1 CX-0002 CX-0003 CX-0055
	Additional¹: Backend Integration Pattern 2 CX-0055 CX-0084
	Additional¹: Simple Data Exchanger CX-0007
	Additional¹: Data Chain CX-0005 CX-0045
Provider Base	CX-0008 ²

¹ If “Additional” Standards are used or offered in a Solution, the certification of these Stand. is required.

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Core Service Provider, Onboarding Service Provider, Sandbox Service Provider and Third Party Information Provider



Modular System – Core Service Provider

Core Service Provider²

MIW

CX-0013
CX-0049
CX-0050
CX-0149

Portal

CX-0001
CX-0006
CX-0009
CX-0014
CX-0015
CX-0053
CX-0074

Marketplace

CX-0054

BPDM

CX-0010
CX-0011
CX-0012

Provider Base

CX-0008¹

¹ TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

² Core Services B lists Core Services that can only be operated once in the Catena-X data space due to business reasons or technical limitations and are therefore tendered via the nomination process of the Association.



Modular System – Onboarding Service Provider

Onboarding Service Provider¹	CX-0006 CX-0009
Provider Base	CX-0008 ²

¹ Limitations Jupiter: this role currently only covers part of the registration process in the Catena-X data space. The currently available process is depicted in figure “General Onboarding Process”.

² TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

Modular System – Sandbox Service Provider



Sandbox Services¹	Connector CX-0018
	Onboarding CX-0006 CX-0009
	BPDM CX-0010 CX-0011 CX-0012 CX-0053 CX-0074
	Golden Record CX-0076
	Identity Wallet CX-0013 CX-0049 CX-0050 CX-0149
	Portal CX-0001 CX-0006 CX-0009 CX-0014 CX-0015 CX-0053 CX-0074
	Marketplace CX-0054
Provider Base	CX-0008 ³

¹ Catena-X Sandboxes contain all services required for the operation of a minimum valuable Catena-X data space, namely: CSP-B services (excluding the cleansing service of BPDM and GXDCH integration) and OSP services.

² TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).

Value Added Services





Modular System – Value Added Services

Value Added Services¹	Data Quality Dashboard: CX-0076 CX-0077	Bank Data Verification: CX-0078	Natural Person Screening: CX-0079	BPDM Fraud Prevention CX-0080	Country Risk: CX-0081	Sanction Watchlist Dashboard: CX-0116	Company Certificate Management: CX-0135
Provider Base	CX-0008 ²						

¹ Can only be provided in combination with certified Core Services.

² TISAX Level 2 is mandatory from July 2025, with grace period of 12 month, for all OSP, ESP and BAP. TISAX Level 3 is mandatory for CSP-A/B (as soon as the standard is adapted).