




















Modular System Version 3.4.2

01.07.2025

Valid for:


- CX-Jupiter
- CX-Io

# Modular System - 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 as a Service	Digital Twin Registry	Quality	Traceability	Behavioral Twin	PCF	Circularity	Eco Pass	ESS	Logistics	MaaS	Modular Production	DCM	PURIS	OSIM	Core Services	Onboarding Services	Sandbox Services	Value Added Services
																			
			Connector: Every Solution must be enabled to use an EDC or have an integrated EDC																
			Semantic: Digital Twin or Agents <sup>1</sup>																
Provider Base																			

<sup>1</sup> 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 Provider <sup>2</sup>																												
Use Case	Quality		Traceability	Behavioral Twin			PCF		Circularity					Eco Pass	ESS	Logistics	MaaS		MP	DCM		PURIS					OSIM	
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 <sup>4</sup>	Asset Tracking	Use Case Circular Economy - Digital Product Passport	ESS Use Case	Logistics and Customs 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	
	CX-0131																											
Base Standard	CX-0123		CX-0125	CX-0059	CX-0138	CX-0141	CX-0136	PCF-Rulebook <sup>9</sup>	/	CX-0053		CX-0117	CX-0105 CX-0045	CX-0143	CX-0144	CX-0150	CX-0115	CX-0129	CX-0142	CX-0128		CX-0118	CX-0120	CX-0121	CX-0122	CX-0145	CX-0133	
Additional	/	/	CX-0005 <sup>1</sup>	/	/	/	/	/	/	/	CX-0136 <sup>6</sup>	/	/	/	/	/	/	/	/	CX-0146 <sup>6</sup>					/			
Industry Core <sup>5,6</sup>	/	/	CX-0127	/	/	/	CX-0126	/	CX-0126 CX-0127			/	CX-0127 <sup>7</sup>	CX-0126 CX-0127	/	CX-0126 CX-0127	/	/	/	CX-0126					/			
Connector <sup>3</sup>	CX-0018							/	CX-0018																			
Semantic	Digital Twin CX-0002 or Agents CX-0084							/	Digital Twin CX-0002 or Agents CX-0084																			
Provider Base	CX-0008 <sup>8</sup>																											

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

<sup>2</sup> Business Application Provider has to perform an interoperability check.

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

<sup>4</sup> Can only be provided in combination with certified Core Services.

<sup>5</sup> 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.

<sup>6</sup> When using certain features, the referenced section of the standard is required.

<sup>7</sup> When using certain features, the focussed section of the standard is optional.

<sup>8</sup> 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).

# Detail View (2/3) | Remaining Roles

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

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

<sup>2</sup> 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".

<sup>3</sup> 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).

<sup>4</sup> 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.

<sup>5</sup> 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 <sup>1</sup>							
Value Added Service	Data Quality Dashboard	Bank Data Verification	Natural Person Screening	BPDM Fraud Prevention	Country Risk	Sanction Watchlist Dashboard	Company Certificate Management
Standard	CX-0076 CX-0077	CX-0078	CX-0079	CX-0080	CX-0081	CX-0116	CX-0135
Provider Base	CX-0008 <sup>2</sup>						

<sup>1</sup> Can only be provided in combination with certified Core Services.  
<sup>2</sup> 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

<b>Quality<sup>1</sup></b>	<b>As OEM data provider:</b> CX-0123	<b>As Supplier data provider:</b> CX-0123
<b>Connector<sup>2</sup></b>	CX-0018	
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084	
<b>Provider Base</b>	CX-0008 <sup>3</sup>	

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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

<b>Traceability<sup>1</sup></b>	CX-0125 <b>Additional<sup>2</sup>:</b> CX-0005
<b>Industry Core<sup>5,6</sup></b>	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>
<b>Connector<sup>3</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>4</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

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

<sup>4</sup> 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).

<sup>5</sup> 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.

<sup>6</sup> When using certain features, the referenced section of the standard is required.



# Modular System – Business Applikation Provider

<b>Behavioral Twin<sup>1</sup></b>	<b>Behavioral Twin Endurance Predictor:</b>  CX-0059	<b>Behavioral Twin Endurance Estimator:</b>  CX-0138	<b>Health Indicator:</b>  CX-0141
<b>Connector<sup>2</sup></b>	CX-0018		
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084		
<b>Provider Base</b>	CX-0008 <sup>3</sup>		

<sup>1</sup> Business Application Provider has to perform an interoperability check.  
<sup>2</sup> If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.  
<sup>3</sup> 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

PCF <sup>1</sup>	Exchange: CX-0136	Calculation: PCF-Rulebook <sup>6</sup>
Industry Core <sup>4, 5</sup>	CX-0126	
Connector <sup>2</sup>	CX-0018	
Semantic	Digital Twin: CX-0002 or Agents: CX-0084	
Provider Base	CX-0008 <sup>3</sup>	

<sup>1</sup> Business Application Provider has to perform an interoperability check.  
<sup>2</sup> If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.  
<sup>3</sup> 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).  
<sup>4</sup> 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.  
<sup>5</sup> When using certain features, the referenced section of the standard is required.  
<sup>6</sup> Only PCF-Rulebook is mandatory for the PCF Calculation Certification.

# Modular System - Business Applikation Provider



Circularity <sup>1</sup>	Circularity Core: CX-0131			Secondary Marketplace <sup>2</sup> : CX-0117	Asset Tracking: CX-0105 CX-0045
	Secondary Material Content:	End of Life / Dismantling Services: CX-0053	CE-Assistant: CX-0053  Additional (Recommended) <sup>4</sup> : CX-0136		
Industry Core <sup>4,5</sup>	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i>  CX-0127: <ul style="list-style-type: none"> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart"</li> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt"</li> </ul>	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i>  CX-0127: <ul style="list-style-type: none"> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart"</li> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt"</li> </ul>	CX-0126: <i>2.0 Industry Core: Part Type with the Aspect Model "SingleLevelBomAsPlanned" (RECOMMENDED)</i>  CX-0127: <ul style="list-style-type: none"> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SerialPart"</li> <li>- 2.0 Industry Core: Part Instance with the Aspect Model "SingleLevelBoMAsBuilt"</li> </ul>		
Connector <sup>3</sup>	CX-0018				
Semantic	Digital Twin: CX-0002 or Agents: CX-0084				
Provider Base	CX-0008 <sup>7</sup>				

<sup>1</sup> Business Application Provider has to perform an interoperability check.

<sup>2</sup> Can only be provided in combination with certified Core Services.

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

<sup>4</sup> When using certain features, the referenced section of the standard is required.

<sup>5</sup> 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.

<sup>6</sup> When using certain features, the focussed section of the standard is optional.

<sup>7</sup> 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

<b>Eco Pass<sup>1</sup></b>	CX-0143
<b>Industry Core<sup>4,5</sup></b>	<p>CX-0126: <i>As described in the industry core standards <u>CX-0126</u> and <u>CX-0127</u>, when digital twins MUST include the key digitalTwinType.</i></p> <p>CX-0127: <i>As described in the industry core standards <u>CX-0126</u> and <u>CX-0127</u>, when digital twins MUST include the key digitalTwinType.</i></p>
<b>Connector<sup>2</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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).

<sup>4</sup> 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.

<sup>5</sup> When using certain features, the referenced section of the standard is required.



# Modular System – Business Applikation Provider

<b>ESS<sup>1</sup></b>	CX-0144
<b>Connector<sup>2</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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

Logistics <sup>1</sup>	CX-0150
Industry Core <sup>4</sup> ,	CX-0126 CX-0127
Connector <sup>2</sup>	CX-0018
Semantic	Digital Twin: CX-0002 or Agents: CX-0084
Provider Base	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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).

<sup>4</sup> 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.

<sup>5</sup> When using certain features, the referenced section of the standard is required.



# Modular System – Business Applikation Provider

<b>MaaS<sup>1</sup></b>	<b>Manufacturing Capability Exchange:</b> CX-0115	CX-0129
<b>Connector<sup>2</sup></b>	CX-0018	
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084	
<b>Provider Base</b>	CX-0008 <sup>3</sup>	

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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

<b>Modular Production<sup>1</sup></b>	<b>Shop Floor Information Service:</b> CX-0142
<b>Connector<sup>2</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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

<b>DCM<sup>1</sup></b>	<p>CX-0128</p> <p><b>Additional<sup>4</sup>:</b> CX-0146:</p> <p><i>5.10 Supply Chain Disruption Notifications</i> <i>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>
<b>Industry Core<sup>4,5</sup></b>	<p>CX-0126:</p> <p><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></p> <p><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></p>
<b>Connector<sup>2</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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).

<sup>4</sup> When using certain features, the referenced section of the standard is required.

<sup>5</sup> 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.

<sup>6</sup> When using certain features, the referenced section of the standard is required.



# Modular System – Business Applikation Provider



<b>PURIS<sup>1</sup></b>	<p>CX-0118</p> <p><b>Additional<sup>5</sup>:</b> 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><b>Additional<sup>5</sup>:</b> 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><b>Additional<sup>5</sup>:</b> 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><b>Additional<sup>5</sup>:</b> 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><b>Additional<sup>5</sup>:</b> 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>
<b>Industry Core<sup>4,5</sup></b>	<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>				
<b>Connector<sup>2</sup></b>	CX-0018				
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084				
<b>Provider Base</b>	CX-0008 <sup>3</sup>				

<sup>1</sup> Business Application Provider has to perform an interoperability check.

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

<sup>3</sup> 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).

<sup>4</sup> 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.

<sup>5</sup> When using certain features, the referenced section of the standard is required.



# Modular System – Business Applikation Provider

<b>OSIM<sup>1</sup></b>	CX-0133
<b>Connector<sup>2</sup></b>	CX-0018
<b>Semantic</b>	<b>Digital Twin:</b> CX-0002 or <b>Agents:</b> CX-0084
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> Business Application Provider has to perform an interoperability check.  
<sup>2</sup> If no EDC is implemented in the solution, at least the Data Management-API is subject of the certification.  
<sup>3</sup> 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).





Data Consumer & Provider and Enablement Service Provider



# Modular System – Data Provider and Consumer

<b>Connector</b>	<p>When using a CX-Certified enablement service, no separate certification is required</p> <p>CX-0018</p> <p><b>Additional<sup>1</sup>:</b></p> <p>CX-0002 CX-0003 CX-0005 CX-0007 CX-0045 CX-0055 CX-0084 CX-0126 CX-0127</p>
------------------	--

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



# Modular System – Enablement Service Provider

<b>Connector as a Service</b>	<b>Connector as a Service</b> CX-0018
	<b>Additional<sup>1</sup>: Backend Integration Pattern 1</b> CX-0002 CX-0003 CX-0055
	<b>Additional<sup>1</sup>: Backend Integration Pattern 2</b> CX-0055 CX-0084
	<b>Additional<sup>1</sup>: Simple Data Exchanger</b> CX-0007
	<b>Additional<sup>1</sup>: Data Chain</b> CX-0005 CX-0045
<b>Provider Base</b>	CX-0008 <sup>2</sup>

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

<sup>2</sup> 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 – Enablement Service Provider

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

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

<sup>2</sup> 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).



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



# Modular System – Core Service Provider

<b>Core Service Provider<sup>2</sup></b>	<b>Identity Wallet:</b> CX-0013 CX-0049 CX-0050 <b>CX-0149</b>
	<b>Portal:</b> CX-0001 CX-0006 CX-0009 CX-0014 CX-0015 CX-0053
	<b>Marketplace:</b> CX-0054
	<b>BPDM:</b> CX-0010 CX-0012 CX-0074 CX-0076
<b>Provider Base</b>	CX-0008 <sup>1</sup>

<sup>1</sup> 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).

<sup>2</sup> 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

<b>Onboarding Service Provider<sup>1</sup></b>	CX-0006 CX-0009
<b>Provider Base</b>	CX-0008 <sup>2</sup>

<sup>1</sup> 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”.

<sup>2</sup> 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



<b>Sandbox Services<sup>1</sup></b>	<b>Connector:</b> CX-0018  <b>Onboarding:</b> CX-0006 CX-0009  <b>BPDM:</b> CX-0010 CX-0012 CX-0074  <b>Identity Wallet:</b> CX-0013 CX-0049 CX-0050 CX-0149  <b>Portal:</b> CX-0001 CX-0006 CX-0009 CX-0014 CX-0015 CX-0053 CX-0074  <b>Marketplace:</b> CX-0054  <b>Golden Record (optional):</b> CX-0076
<b>Provider Base</b>	CX-0008 <sup>3</sup>

<sup>1</sup> 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.

<sup>2</sup> 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

<b>Value Added Services<sup>1</sup></b>	<b>Data Quality Dashboard:</b> CX-0076 CX-0077	<b>Bank Data Verification:</b> CX-0078	<b>Natural Person Screening:</b> CX-0079	<b>BPDM Fraud Prevention</b> CX-0080	<b>Country Risk:</b> CX-0081	<b>Sanction Watchlist Dashboard:</b> CX-0116	<b>Company Certificate Management:</b> CX-0135
<b>Provider Base</b>	CX-0008 <sup>2</sup>						

<sup>1</sup> Can only be provided in combination with certified Core Services.

<sup>2</sup> 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).

Changelog



# Changelog



- Added for new features.
  - Added Logistics as a new Use Case
  - Added Standards to the Use Case Core Services
  - Added optional Standard to the Use Case Sandbox Services
  - Added PCF-Rulebook to the Use Case PCF
- Changed for changes in existing functionality.
- Deprecated for soon-to-be removed features.
- Removed for now removed features.
  - Removed footnote from Industry Core in the Use Cases PCF, DCM and PURIS
  - Removed CX-0008 and CX-0002 from the PCF Calculation Certification
- Fixed for any bug fixes.
- Security in case of vulnerabilities.