
Elektronska javna naročila - Katalog - 2. del: Transakcije

Electronic Public Procurement - Catalogue - Part 2: Transactions

Elektronisches öffentliches Beschaffungswesen - Katalog - Teil 2: Transaktionen

Marchés publics électroniques - Catalogue - Partie 2: Transactions

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35.240.63	Uporabniške rešitve IT v trgovini	IT applications in trade

SIST EN 17015-2:2026**en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 17015-2

April 2026

ICS 35.240.63

English Version

Electronic Public Procurement - Catalogue - Part 2: Transactions

Passation électronique des marchés publics - Catalogue
- Partie 2: Transactions

Elektronisches öffentliches Beschaffungswesen -
Katalog - Teil 2: Transaktionen

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European foreword

This document (EN 17015-2:2026) has been prepared by the Technical Committee CEN/TC 440 Electronic public procurement, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2026, and conflicting national standards shall be withdrawn at the latest by October 2026.

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This document is part of a series of multi-part documents prepared, or under preparation, by CEN/TC 440:

- 17011-series: e-Procurement Architecture, providing a set of specifications outlining different aspects of the e-Procurement architecture for Business Interoperability Specifications.
- 17014-series: Pre-Award Business Interoperability Specifications, providing a set of specifications outlining choreography, transaction, syntax binding specifications and guidelines required to support the Pre-Award processes.
- 17015-series: e-Catalogue Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Catalogue processes.
- 17015-series: e-Ordering Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Ordering processes.
- 17017-series: e-Fulfilment Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Delivery processes.

The terms “shall”, “shall not”, “should”, “should not”, “may”, “need not” “can” and “cannot” shall be interpreted according to Clause 7 of part 3 of the CEN-CENELEC internal regulations².

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

¹ <https://www.cencenelec.eu/areas-of-work/cen-cenelec-topics/public-procurement/cen-tc-440-electronic-public-procurement/>

² https://boss.cen.eu/media/BOSS%20CENELEC/ref/ir3_e.pdf

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Introduction

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Intended use of this publication

This document has been developed for any organization looking for guidance on the implementation and use of electronic procurement deliverables as well as for organizations developing or implementing software applications related to electronic procurement, such as software providers, business entities and national authorities. These software applications are in conformance with this publication.

Parts of the document to which derivative use apply

Each subclause, which falls under derivative use, will be clearly marked with a note. The degree to which the specific content can be modified, is defined in CEN/TS 17011-3:2024 Electronic Public Procurement – Architecture – Part 3: Customization Guideline.

Annex A provides an overview of the line number references to all subclauses of the publication which fall under derivative use.

Use of eProcurement Ontology (ePO)

This document uses the eProcurement Ontology (ePO), owned by the European Union, available here (<https://github.com/OP-TED/ePO>) and licensed under a CC BY 4.0 licence.

EN 17015-2:2026 (E)

1 Scope

This document describes the transaction information requirements of the transactions used in the basic collaborations described in EN 17015-1:2024, Electronic Public Procurement – Catalogue – Part 1: Choreographies. For each transaction there is an overview, the transaction business requirements and the transaction information requirements model containing definitions of terms, usage descriptions and cardinality of the information elements, as well as business rules.

The document describes the following transactions:

- 1) Catalogue;
- 2) Catalogue Response
- 3) Pre-award Catalogue Request
- 4) Pre-award Catalogue
- 5) Shopping Cart

This document does not apply to the choreographies using in the specified transactions. These choreographies are specified in the related EN 17015-1:2024. The relationship between the choreographies and the transaction is described in Clause 6.

The identifier of this transactions document is FprEN 17015-2:202X.

How to claim compliance to these transactions is described in the section 7 “Claiming compliance” section.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

agent

person, an organization, or a system that act in procurement or have the power to act in procurement

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17]

3.2

business process

sequence or network of activities and collaborations between two or more *agents* (3.1)

3.3

business process variant

specification of a *business process* (3.2) belonging to a *choreography* (3.9)

Note 1 to entry: Different variants may support different electronic information exchange or collaborations. Agents may publicly advertise their capability to support one or more variants in an automated fashion.

3.4

buyer

role (3.14) of an *agent* (3.1) that awards a contract and/or purchases *items* (3.11)

Note 1 to entry: In pre-award, the buyer generally awards the contract, however future purchasers may be foreseen. In post-award the buyer generally refers to the purchaser of items.

Note 2 to entry: Usually, the buyer will be a contracting authority.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Notes 1 and 2 to entry has been added]

3.5

catalogue

document describing a set of *items* (3.11) offered for purchase that can be processed in an electronic way

Note 1 to entry: The terms “eCatalogue” and “Post-award Catalogue” are synonyms for this term.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.6

catalogue provider

role (3.14) of an *agent* (3.1) compiling and supplying a *catalogue* (3.5)

Note 1 to entry: The catalogue provider role is usually played by the agent that acts as a seller, or by another agent that acts on behalf of the seller.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.7

catalogue receiver

role (3.14) of an *agent* (3.1) processing a *catalogue* (3.5)

Note 1 to entry: The catalogue receiver may not only receive it but also validate it, process it, etc. The catalogue receiver role is usually played by the agent that acts as a buyer, or by another agent that acts on behalf of the buyer.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.8

catalogue response

single message from the *catalogue receiver* (3.7) to the *catalogue provider* (3.6) on the acceptance of the related *catalogue* (3.5) sent by the *catalogue provider* (3.6)

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17]

3.9

choreography

set of *business processes* (3.2) having the same goals

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3.10

collaboration

interaction between two or more *agents* (3.1) that result in the exchange of data between the *agents* (3.1) involved as part of a *business process* (3.2)

3.11

item

single product or service

Note 1 to entry: An item can be an atomic thing or a composition of things that together are seen as a unit, e.g. a tetrabrik of milk or an indivisible package of six tetrabriks.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.12

pre-award catalogue

catalogue (3.5) that is submitted as a tender in response to a call for tenders

3.13

pre-award catalogue request

document describing the requirements on *items* (3.11) to be tendered and on the *catalogue* (3.5) that should be submitted as a tender

3.14

role

part played by an *agent* (3.1) in a particular *business process* (3.2), including its responsibilities (options and obligations) to perform certain activities and *collaborations* (3.10) in that *business process* (3.2)

Note 1 to entry: The role is used to show the division of labour and responsibility amongst the agents involved in the process or within the organization of an Agent.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.15

seller

role (3.14) of an *agent* (3.1) legally responsible for providing goods and services bought by a *buyer* (3.4)

Note 1 to entry: Usually, the seller is an economic operator. May also be called contractor in other contexts.

[SOURCE: eProcurement Ontology, v3.1.0, 2022-12-17, modified Note 1 to entry has been added]

3.16

state

set of options and obligations of the participating *agents* (3.1) at a defined step in a *business process* (3.2) to perform specific activities and *collaborations* (3.10)

Note 1 to entry: An activity of an agent or a collaboration may cause the transition of one state to another in a predefined set of next steps. An example is the signing of an agreement between the buyer and the seller or placing a firm order by the buyer.

3.17**transaction**

content of data exchanged or shared between the *agents* (3.1) in a *collaboration* (3.10)

Note 1 to entry: A transaction is the atomic unit that leads to a synchronized state in the information systems of collaborating agents. It is the basic building block to define the choreography between agents. When an agent recognizes an event that changes the state of a business object within a business process, it uses a transaction to synchronize with the collaborating agent. A transaction therefore changes the state of a business process. It carries the intention of the initiating agent and is represented by a data structure that is defined by a data model. The exchange of a transaction may alter legal obligations between business partners.

3.18**business term**

the name of an information element to be used in data models for *transactions* (3.17)

Note 1 to entry: Usually a business term corresponds to an attribute or a role in the eProcurement Ontology.

3.19**business term group**

coherent group of related *business term* (3.18)

Note 1 to entry: Usually a business term group corresponds to a class in the eProcurement Ontology.

4 Symbols and abbreviated terms

ABB	Architectural Building Block
EIF	European Interoperability Framework
EIRA	European Interoperability Reference Architecture
n/a	Not available

EN 17015-2:2026 (E)**5 Positioning in EIRA**

This specification is positioned in EIRA as shown in Table 1.

Table 1 — Positioning in EIRA

EIRA ID	Title	Domain	Interface	Scope	Modality
CEN/EN 17015-2:20xx	Electronic Public Procurement - Catalogue - Transactions	Procurement	Machine /Customer Machine /Supplier	<ul style="list-style-type: none"> e-procurement extension of ABB176 Organisational Interoperability Specification e-procurement extension of ABB12 Business Capability, e-procurement extension of ABB170 Exchange of Business Information e-procurement extension of ABB16 Business Rule 	Endorsing

6 Collaborations and transactions**6.1 Transactions involved in Catalogue choreographies**

The relationship between the transactions and the choreographies is shown in Table 2.

Table 2 — Transactions identifiers

Role	Capability	Collaboration ID	Collaboration	Transaction ID	Transaction	Variant				
						A	B	C	D	E
Catalogue Provider	Send Catalogue	BC-17015-1:202x-1	Catalogue Provider sends Catalogue	T-17015-2:20xx-1	Catalogue	M	M			
Catalogue Receiver	Receive Catalogue	BC-17015-1:202x-2	Catalogue Receiver receives Catalogue Response	T-17015-2:20xx-2	Catalogue Response		M			
Catalogue Receiver	Send Pre-award Catalogue Request	BC-17015-1:202x-3	Catalogue Receiver sends Pre-award Catalogue Request	T-17015-2:20xx-3	Pre-award Catalogue Request				M	
Catalogue Provider	Send Pre-award Catalogue	BC-17015-1:202x-4	Catalogue Provider sends Pre-award Catalogue	T-17015-2:20xx-4	Pre-award Catalogue			M	M	
Seller	Send Shopping-Cart	BC-17015-1:202x-5	Seller sends Shopping-cart	T-17015-2:20xx-5	Shopping Cart					M

6.2 Transactions identifiers

The identifiers and names of all transactions specified in this document are shown in Table 3.

Table 3 — Transactions identifiers

Transaction ID	Transaction Name
T-17015-2:20xx-1	Catalogue
T-17015-2:20xx-2	Catalogue Response
T-17015-2:20xx-3	Pre-award Catalogue Request
T-17015-2:20xx-4	Pre-award Catalogue
T-17015-2:20xx-5	Shopping Cart

7 Claiming compliance and conformance

A transaction instance is compliant to a specified transaction, if the following conditions are met

- all specified business terms of that transaction are included according to their cardinalities as well as all corresponding business rules are fulfilled,
- no additional business terms were added
- additional business rules may have been added, which shall not conflict with the specification

A transaction instance is conformant to a specified transaction, if the following conditions are met

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- all specified business terms of that transaction are included according to their cardinalities as well as all corresponding business rules are fulfilled
- additional business terms may have been added
- additional business rules may have been added, which shall not conflict with the specification

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8 Business requirements

8.1 Common business requirements³

The business requirements common to all transactions are defined in Table 4.

Table 4 — Common business requirements

ID	Description
R-17015-2:20xx-1	A transaction shall provide information about its identity, type, issue date and validity.
R-17015-2:20xx-2	All amounts in a transaction shall be stated in the same currency.
R-17015-2:20xx-3	A transaction shall contain non-negative prices and quantities.
R-17015-2:20xx-4	The transactions shall contain all information necessary for its application i.e. it shall not rely on the availability of external references such as a centralized repository of item information. To ease the processing of a catalogue, no external data sources are needed.
R-17015-2:20xx-5	A transaction shall contain information on the organisations sending respectively receiving the transaction.
R-17015-2:20xx-6	A transaction shall provide information about corresponding business process variant it is used in.

8.2 Catalogue (T-17015-2:20xx-1) specific business requirements⁴

The business requirements for the Catalogue transaction are defined in Table 5.

Table 5 — Catalogue business requirements

ID	Description
T-17015-2:20xx-1-R-1	To support changing of the previously sent catalogue, the catalogue shall provide information on its version history and how changes shall be applied. Changes may be fully, or partial updates and deletion of information sent in previous version of a catalogue.
T-17015-2:20xx-1-R-3	To support an easy identification for end-users on the buying side, a name of the catalogue may be provided in a catalogue.
T-17015-2:20xx-1-R-4	To restrict the validity of a catalogue, a period of time the catalogue is valid may be defined in the catalogue. A catalogue without a stated validity period is assumed to be valid until it is cancelled or replaced with a new version. Sometimes products are offered only for a certain period of time or the prices for the product are ensured to be fixed by the catalogue provider only during this period of time.

³ Section 7.1 falls under derivative use (as set out in the introduction). When replicating the section, the content can be modified as specified in CEN/TS 17011-3 Electronic Public Procurement – Architecture – Part 3: Customization Guideline.

⁴ Section 7.2 falls under derivative use (as set out in the introduction). When replicating the section, the content can be modified as specified in CEN/TS 17011-3 Electronic Public Procurement – Architecture – Part 3: Customization Guideline.