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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Electronic Public Procurement - Ordering - Part 2: Transactions

Passation électronique des marchés publics - Gestion
des commandes - Partie 2 : Transactions

Elektronisches öffentliches Beschaffungswesen -
Bestellung - Teil 2: Transaktionen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 440.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword.....	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Positioning in EIRA (European Interoperability Reference Architecture)	8
5 Collaborations and Transactions	9
5.1 Transactions involved in Ordering choreography.....	9
5.2 Transaction identifiers	12
6 Compliance and Conformance.....	13
7 Business requirements	13
7.1 Common business requirements.....	13
7.2 Order (T-17016-2:20xx-1) specific business requirements.....	14
7.3 Order change (T-17016-2:20xx-2) specific business requirements	15
7.4 Order Cancellation (T-17016-2:20xx-3) specific business requirements.....	17
7.5 Order Response Simple (T-17016-2:20xx-4) specific business requirements.....	17
7.6 Order Confirmation (T-17016-2:20xx-5) specific business requirements.....	17
7.7 Order Rejection (T-17016-2:20xx-6) specific business requirements.....	17
7.8 Order Response (T-17016-2:20xx-7) specific business requirements	17
7.9 Order Change Confirmation (T-17016-2:20xx-8) Specific business requirements	18
7.10 Order Change Rejection (T-17016-2:20xx-9) specific business requirements	18
7.11 Order Cancellation Confirmation (T-17016-2:20xx-10) specific business requirements	19
7.12 Order Cancellation Rejection (T-17016-2:20xx-11) specific business requirements	19
7.13 Order Agreement (T-17016-2:20xx-12) specific business requirements.....	19
8 Data models.....	21
8.1 Use of the ePo ontology	21
8.2 Legend.....	21
8.3 Order data model (T-17016-2:20xx-1)	23
8.4 Order Change data model (T-17016-2:20xx-2)	86
8.5 Order Cancellation data model (T-17016-2:20xx-3)	86
8.6 Order Response Simple data model (T-17016-2:20xx-4)	87
8.7 Order Confirmation data model (T-17016-2:20xx-5).....	87
8.8 Order Rejection data model (T-17016-2:20xx-6)	87
8.9 Order Response data model (T-17016-2:20xx-7)	87
8.10 Order Change Confirmation data model (T-17016-2:20xx-8)	88
8.11 Order Change Rejection data model (T-17016-2:20xx-9).....	88
8.12 Order Cancellation Confirmation data model (T-17016-2:20xx-10)	88
8.13 Order Cancellation Rejection data model (T-17016-2:20xx-11)	88
8.14 Order Agreement data model (T-17016-2:20xx-12).....	89
9 Business rules.....	90
9.1 Common business rules.....	90
9.2 Order (T-17016-2:20xx-1) business rules	91

9.3	Order Change (T-17016-2:20xx-2) business rules.....	92
9.4	Order Cancellation (T-17016-2:20xx-3) business rules.....	92
9.5	Order Response Simple (T-17016-2:20xx-4) business rules.....	93
9.6	Order Confirmation (T-17016-2:20xx-5) business rules.....	93
9.7	Order Rejection (T-17016-2:20xx-6) business rules.....	93
9.8	Order Response (T-17016-2:20xx-7) business rules	93
9.9	Order Change Confirmation (T-17016-2:20xx-8) business rules	94
9.10	Order Change Rejection (T-17016-2:20xx-9) business rules	94
9.11	Order Cancellation Confirmation (T-17016-2:20xx-10) business rules	94
9.12	Order Cancellation Rejection (T-17016-2:20xx-11) business rules	95
9.13	Order Agreement (T-17016-2:20xx-12) business rules	95
	Bibliography	97

Tables

Table 1 — Positioning in EIRA	9
Table 2 — Roles, capabilities, basic collaborations and transactions per variant.....	10
Table 3 — Transaction identifiers	13
Table 4 — Common business requirements.....	13
Table 5 — Order business requirements.....	14
Table 6 — Order change business requirements	15
Table 7 — Order cancellation business requirements.....	17
Table 8 — Order Response Simple business requirements.....	17
Table 9 — Order Confirmation business requirements.....	17
Table 10 — Order Rejection business requirements.....	17
Table 11 — Order Response business requirements	18
Table 12 — Order Change Confirmation business requirements.....	18
Table 13 — Order Change Rejection business requirements.....	18
Table 14 — Order Cancellation Confirmation business requirements	19
Table 15 — Order Cancellation Rejection business requirements	19
Table 16 — Order Agreement business requirements	19
Table 17 — Order semantic data model.....	23
Table 18 — Order Change semantic data model	86
Table 19 — Order Cancellation semantic data model	87
Table 20 — Order Response Simple semantic data model.....	87

Table 21 — Order Confirmation semantic data model 87

Table 22 — Order Rejection semantic data model 87

Table 23 — Order Response semantic data model..... 88

Table 24 — Order Change Confirmation semantic data model..... 88

Table 25 — Order Rejection data model..... 88

Table 26 — Order Cancellation Confirmation data model 88

Table 27 — Order Cancellation Rejection data model 89

Table 28 — Order Rejection data model..... 89

Table 29 — Common business rules..... 90

Table 30 — Order business rules..... 91

Table 31 — Order Change business rules..... 92

Table 32 — Order Cancellation business rules 93

Table 33 — Order Response Simple business rules..... 93

Table 34 — Order Confirmation business rules 93

Table 35 — Order Rejection business rules 93

Table 36 — Order Response business rules 94

Table 37 — Order Change Confirmation business rules 94

Table 38 — Order Change Rejection business rules 94

Table 39 — Order Cancellation Confirmation business rules..... 95

Table 40 — Order Cancellation Rejection business rules..... 95

Table 41 — Order Agreement business rules 95

European foreword

This document (prEN 17016-2:2024) has been prepared by the Technical Committee CEN/TC 440 “Electronic public procurement”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document falls under a CEN-CENELEC pilot on derivative use (as approved by the CEN/CA (Administrative Board) through decision 37/2019). For more information about the implementation of derivative use in CEN/TC 440, see [here](#).

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

- 17011-series: eProcurement Architecture, providing a set of specifications outlining different aspects of the eProcurement architecture for Business Interoperability Specifications.
- 17014-series: Pre-Award Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the Pre-Award phase in Public Procurement.
- 17015-series: eCatalogue Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the catalogue process.
- 17016-series: eOrdering Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the ordering process.
- 17017-series: eFulfilment Business Interoperability Specifications, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the fulfilment process.

The terms "shall", "shall not", "should", "should not", "may", "can" and "cannot" are interpreted according to Clause 7 of the CEN-CENELEC Internal Regulations Part 3¹.

¹ <https://boss.cen.eu/reference-material/refdocs/pages/>

Introduction

Derivative use pilot

This document falls under a CEN-CENELEC pilot on derivative use (as approved by the CEN/CA (Administrative Board) through decision 38/2019).

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Under derivative use, any use of content which has been copied, replicated or translated from a CEN/TC 440 publication, should comply with the intended use of the publication. Derivative use cannot be applied in use cases other than those the publication is intended to support. The intended use of this publication is set out below.

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 should be 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:—², *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 ePO ontology

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

² Under preparation. Current stage: FprCEN/TS 17011-3:2024.

1 Scope

This document describes the transaction information requirements of the transactions used in the collaborations described in EN 17016-1:2024, *Electronic Public Procurement — Ordering — Part 1: Choreographies*. For each transaction are specified the transaction business requirements, the transaction information data model containing definitions of terms, usage descriptions and cardinality of the information elements and the transaction business rules.

This document describes the following transactions:

- 1) Order;
- 2) Order Change;
- 3) Order Cancellation;
- 4) Order Response Simple
- 5) Order Confirmation;
- 6) Order Rejection;
- 7) Order Response;
- 8) Order Change Confirmation;
- 9) Order Change Rejection;
- 10) Order Cancellation Confirmation;
- 11) Order Cancellation Rejection;
- 12) Order Agreement.

The identifier of this transactions document is EN 17016-2:20XX.

How to claim compliance to a transaction is specified in Clause 6.

How to claim conformance to a transaction is also specified in Clause 6.

2 Normative references

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 terminology databases for use in standardization at the following addresses:

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

3.1

agent

person, organization, or system that acts in procurement or has the power to act in procurement

3.2

business process

sequence or network of activities and collaborations between two or more agents

3.3

business process variant

specification of a business process belonging to a choreography

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

choreography

set of business processes having the same goals

3.5

collaboration

interaction between two or more agents that result in the exchange of data between the agents involved as part of a business process

3.6

role

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

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.

3.7

state

set of options and obligations of the participating agents at a defined step in a business process to perform specific activities and collaborations

Note 1 to entry: Additional information: an activity of an agent or a collaboration may cause the transition of one state to another in a predefined set of next steps.

3.8

transaction

content of data exchanged or shared between the agents in a collaboration

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.

4 Positioning in EIRA (European Interoperability Reference Architecture)

EIRA (European Interoperability Reference Architecture) provides a reference model that enables architects to position the IOP (InterOPerability) specifications. This document provides a domain-specific IOP specification to which any SBB (Solution Building Block) implementing the ABB (Architecture Building Block) should be compliant to. The positioning of this document in the EIRA context is specified in Table 1.

IoP specifications provide a valuable source of information to formulate requirements during architecture development and solution development. By identifying architectural building blocks through a common terminology, it:

- helps the reuse of cross domain building blocks such as e.g. eSignature Verification and Validation Service, and eTimestamp Creation Service;
- helps the synchronization with European solutions such as CEF eDelivery; and
- will provide guidance in using them to provide the prescribed capability enabling, thus managing and rationalizing IT portfolios.

Table 1 — Positioning in EIRA

EIRA ID	Title	Domain	Interface	Scope	Modality
EN 17016-2:20XX	Electronic Public Procurement - Ordering - Transactions	Procurement	Machine /Customer Machine /Supplier	• eProcurement extension of ABB176 Organizational Interoperability Specification • eProcurement extension of ABB170 Exchange of Business Information • eProcurement extension of ABB16 Business Rule	Endorsing

5 Collaborations and Transactions

5.1 Transactions involved in Ordering choreography

Table 2 lists the transactions and the collaborations in which they are used³.

³ See EN 17016-1:2024, *Electronic Public Procurement – Ordering – Part 1: Choreographies*, Clause 6.

Table 2 — Roles, capabilities, basic collaborations and transactions per variant

Role	Capability	Collaboration ID	Collaboration	Transaction ID	Transaction	Variant							
						A	B	C	D	E	F	G	H
Buyer	Send Order	BC-17016-1:2024-1	Buyer sends Order	T-17016-2:20XX-1	Order	M	M	M	M	M	M	M	
Seller	Receive Order	BC-17016-1:2024-1	Buyer sends Order	T-17016-2:20XX-1	Order	M	M	M	M	M	M	M	
Buyer	Change an Order	BC-17016-1:2024-2	Buyer changes Order	T-17016-2:20XX-2	Order Change		M		M		M	M	
Seller	Receive an Order Change	BC-17016-1:2024-2	Buyer changes Order	T-17016-2:20XX-2	Order Change		M		M		M	M	
Buyer	Cancel an Order	BC-17016-1:2024-3	Buyer cancels Order	T-17016-2:20XX-3	Order Cancellation		M		M		M	M	
Seller	Receive an Order Cancellation	BC-17016-1:2024-3	Buyer cancels Order	T-17016-2:20XX-3	Order Cancellation		M		M		M	M	
Seller	Acknowledge an Order	BC-17016-1:2024-4	Seller acknowledges Order	T-17016-2:20XX-4	Oder Response Simple					M	M		
Buyer	Receive an Order Response Simple	BC-17016-1:2024-4	Seller acknowledges Order	T-17016-2:20XX-4	Oder Response Simple					M	M		
Seller	Accept an Order without changes	BC-17016-1:2024-5	Seller confirms Order	T-17016-2:20XX-5	Order Confirmation			M	M	M	M	M	
Buyer	Receive an Order Confirmation	BC-17016-1:2024-5	Seller confirms Order	T-17016-2:20XX-5	Order Confirmation			M	M	M	M	M	
Seller	Reject an Order	BC-17016-1:2024-6	Seller rejects Order	T-17016-2:20XX-6	Order Rejection			M	M	M	M	M	
Buyer	Receive an Order Rejection	BC-17016-1:2024-6	Seller rejects Order	T-17016-2:20XX-6	Order Rejection			M	M	M	M	M	
Seller	Accept changes to an Order	BC-17016-1:2024-7	Seller confirms Order Change	T-17016-2:20XX-8	Order Change Confirmation				M		M	M	
Buyer	Receive an Order Change Confirmation	BC-17016-1:2024-7	Seller confirms Order Change	T-17016-2:20XX-8	Order Change Confirmation				M		M	M	

Role	Capability	Collaboration ID	Collaboration	Transaction ID	Transaction	Variant							
						A	B	C	D	E	F	G	H
Seller	Reject changes to an Order	BC-17016-1:2024-8	Seller rejects Order Change	T-17016-2:20XX-9	Order Change Rejection				M		M	M	
Buyer	Receive an Order Change Rejection	BC-17016-1:2024-8	Seller rejects Order Change	T-17016-2:20XX-9	Order Change Rejection				M		M	M	
Seller	Accept an Order Cancellation	BC-17016-1:2024-9	Seller confirms Order Cancellation	T-17016-2:20XX-10	Order Cancellation Confirmation				M		M	M	
Buyer	Receive Order Cancellation Confirmation	BC-17016-1:2024-9	Seller confirms Order Cancellation	T-17016-2:20XX-10	Order Cancellation Confirmation				M		M	M	
Seller	Reject an Order cancellation	BC-17016-1:2024-10	Seller rejects Order Cancellation	T-17016-2:20XX-11	Order Cancellation Rejection				M		M	M	
Buyer	Receive an Order Cancellation Rejection	BC-17016-1:2024-10	Seller rejects Order Cancellation	T-17016-2:20XX-11	Order Cancellation Rejection				M		M	M	
Seller	Accept an Order partially or with changes	BC-17016-1:2024-11	Seller accepts Order partially or with changes	T-17016-2:20XX-7	Order Response					M	M	M	
Buyer	Receive an Order Response	BC-17016-1:2024-11	Seller accepts Order partially or with changes	T-17016-2:20XX-7	Order Response					M	M	M	
Seller	Change a confirmed Order	BC-17016-1:2024-12	Seller changes Order	T-17016-2:20XX-7	Order Response					M	M	M	
Buyer	Receive an Order Change	BC-17016-1:2024-12	Seller changes Order	T-17016-2:20XX-7	Order Response					M	M	M	
Buyer	Accept an Order Response	BC-17016-1:2024-13	Buyer confirms Order Response	T-17016-2:20XX-8	Order Change Confirmation						M	M	

Role	Capability	Collaboration ID	Collaboration	Transaction ID	Transaction	Variant							
						A	B	C	D	E	F	G	H
Seller	Receive an Order Response Confirmation	BC-17016-1:2024-13	Buyer confirms Order Response	T-17016-2:20XX-8	Order Change Confirmation						M	M	
Buyer	Reject an Order Response	BC-17016-1:2024-14	Buyer rejects Order Response	T-17016-2:20XX-9	Order Change Rejection						M	M	
Seller	Receive an Order Response Rejection	BC-17016-1:2024-14	Buyer rejects Order Response	T-17016-2:20XX-9	Order Change Rejection						M	M	
Buyer	Accept changes to an Order	BC-17016-1:2024-15	Buyer confirms Order Change	T-17016-2:20XX-8	Order Change Confirmation						M	M	
Seller	Receive an Order Change Confirmation	BC-17016-1:2024-15	Buyer confirms Order Change	T-17016-2:20XX-8	Order Change Confirmation						M	M	
Buyer	Reject changes to an Order	BC-17016-1:2024-16	Buyer rejects Order Change	T-17016-2:20XX-9	Order Change Rejection						M	M	
Seller	Receive an Order Change Rejection	BC-17016-1:2024-16	Buyer rejects Order Change	T-17016-2:20XX-9	Order Change Rejection						M	M	
Seller	Send Order Agreement	BC-17016-1:2024-17	Seller sends Order Agreement	T-17016-2:20XX-12	Order Agreement								M
Buyer	Receive Order Agreement	BC-17016-1:2024-17	Seller sends Order Agreement	T-17016-2:20XX-12	Order Agreement								M

Key

M Mandatory for the capability in the variant.

5.2 Transaction identifiers

Table 3 specifies the identifier of the transactions described in this document.

Table 3 — Transaction identifiers

ID	Name of the transaction
T-17016-2:20xx-1	Order
T-17016-2:20xx-2	Order Change
T-17016-2:20xx-3	Order Cancellation
T-17016-2:20xx-4	Order Response Simple
T-17016-2:20xx-5	Order Confirmation
T-17016-2:20xx-6	Order Rejection
T-17016-2:20xx-7	Order Response
T-17016-2:20xx-8	Order Change Confirmation
T-17016-2:20xx-9	Order Change Rejection
T-17016-2:20xx-10	Order Cancellation Confirmation
T-17016-2:20xx-11	Order Cancellation Rejection
T-17016-2:20xx-12	Order Agreement

6 Compliance and Conformance

The content of this clause will be defined in accordance with WG1 after the completion of the work on CEN/TS 17011-3 customization guideline and in alignment with the work in TC 434.

7 Business requirements

7.1 Common business requirements

Table 4 specifies the business requirements common to all transactions.

Table 4 — Common business requirements

ID	Description
R-TC440-1	A transaction shall provide information about its identity, type (Order, Order Change etc), business process variant, issue date and validity.
R-TC440-2	All amounts in a transaction shall be stated in the same currency.
R-TC440-3	A transaction shall contain non-negative prices and non-negative quantities.
R-TC440-4	A transaction shall contain elements for identifying the Buyer and Seller with legal name, legal registration ID and the country of establishment - residence.
R-TC440-5	A transaction shall provide for the Buyer's and the Seller's electronic address.
R-TC440-6	Each line in a transaction shall be clearly identified to enable referencing from other transactions.
R-TC440-7	For any information, the specific business term shall be used, if existing.

7.2 Order (T-17016-2:20xx-1) specific business requirements

Table 5 specifies the business requirements of the Order.

Table 5 — Order business requirements

ID	Description
T-17016-2:20xx-1-R-1	An Order shall enable the Buyer to reference tenders, contracts and documents that are relevant to prices and terms, including terms of delivery.
T-17016-2:20xx-1-R-2	In an Order it shall be possible to reference another Order.
T-17016-2:20xx-1-R-3	In an Order it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-1-R-4	In an Order it shall be possible to provide for contact details of the department of the Buyer or natural person inside the Buyer who originated the order as a whole.
T-17016-2:20xx-1-R-5	In an Order it shall be possible to provide for information about the department of the Buyer or the external organization that is in charge of receiving and treating the invoice(s) related to the Order.
T-17016-2:20xx-1-R-6	In an Order it shall be possible to provide for details about delivery location (address and ID), some basic delivery terms, delivery time and contact person for the purpose of delivery.
T-17016-2:20xx-1-R-7	In an Order it shall be possible to provide for information about the external organization to which the goods are to be sent and that will take possession of them after delivery.
T-17016-2:20xx-1-R-8	In an Order it shall be possible to provide for information about the dates before and/or after which the Order lines shall be delivered.
T-17016-2:20xx-1-R-9	In an Order it shall be possible to provide for information about the value of items ordered and what prices, charges and totals (including estimate of VAT) are expected to be paid in a way that can be matched against an invoice.
T-17016-2:20xx-1-R-10	In an Order it shall be possible provide information needed to specify estimated allowance and charges on document level that apply to the order as a whole.
T-17016-2:20xx-1-R-11	In an Order is shall be possible to specify amounts to be paid in advance.
T-17016-2:20xx-1-R-12	In an Order it shall be possible to provide for information about the final price that the buyer expects to pay exclusive of any VAT. This makes it possible for the seller to verify against his price lists and contracts.
T-17016-2:20xx-1-R-13	An Order line shall provide for information about the quantity ordered and its unit of measure.
T-17016-2:20xx-1-R-14	An Order line shall provide for the name of the item.
T-17016-2:20xx-1-R-15	In an Order line it shall be possible to specify a Seller's identifier for the item.
T-17016-2:20xx-1-R-16	In an Order line it shall be possible to specify a standard identifier for the item.

ID	Description
T-17016-2:20xx-1-R-17	In an Order line it shall be possible to specify a Buyer's identifier for the item.
T-17016-2:20xx-1-R-18	An Order line shall provide for the price of the item.
T-17016-2:20xx-1-R-19	In an Order line it shall be possible to provide for the base quantity to which the price applies.
T-17016-2:20xx-1-R-20	In an Order line it shall be possible to state a price discount in terms of percentage on the gross price or a per unit discount.
T-17016-2:20xx-1-R-21	In an Order line it shall be possible to state estimated allowances or charges.
T-17016-2:20xx-1-R-22	In an Order line it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-1-R-23	In an Order line it shall be possible to specify the delivery location.
T-17016-2:20xx-1-R-24	In an Order line it shall be possible to specify a referenced catalogue line.
T-17016-2:20xx-1-R-25	In an Order line it shall be possible to specify a referenced document.
T-17016-2:20xx-1-R-26	An Order line shall provide for the item VAT category.
T-17016-2:20xx-1-R-27	An Order line shall provide for the item VAT percentage.
T-17016-2:20xx-1-R-28	An Order line shall provide for the total amount excluding VAT.

7.3 Order change (T-17016-2:20xx-2) specific business requirements

Table 6 specifies the business requirements of the Order change.

Table 6 — Order change business requirements

ID	Description
T-17016-2:20xx-2-R-1	An Order Change shall enable the Buyer to reference tenders, contracts and documents that are relevant to prices and terms, including terms of delivery.
T-17016-2:20xx-2-R-2	An Order Change shall specify the Order that has to be changed.
T-17016-2:20xx-2-R-3	In an Order Change it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-2-R-4	In an Order Change it shall be possible to provide for contact details of the department of the Buyer or natural person inside the Buyer who originated the order as a whole.
T-17016-2:20xx-2-R-5	In an Order Change it shall be possible to provide for information about the department of the Buyer or the external organization that is in charge of receiving and treating the invoice(s) related to the Order Change.
T-17016-2:20xx-2-R-6	In an Order Change it shall be possible to provide for details about delivery location (address and ID), some basic delivery terms, delivery time and contact person for the purpose of delivery.
T-17016-2:20xx-2-R-7	In an Order Change it shall be possible to provide for information about the external organization to which the goods are to be sent and that will take possession of them after delivery.

ID	Description
T-17016-2:20xx-2-R-8	In an Order Change it shall be possible to provide for information about the dates before and/or after which the Order Change lines shall be delivered.
T-17016-2:20xx-2-R-9	In an Order Change it shall be possible to provide for information about the value of items ordered and what prices, charges and totals (including estimate of VAT) are expected to be paid in a way that can be matched against an invoice.
T-17016-2:20xx-2-R-10	In an Order Change it shall be possible provide information needed to specify estimated allowance and charges on document level that apply to the order as a whole.
T-17016-2:20xx-2-R-11	In an Order Change is shall be possible to specify amounts already paid.
T-17016-2:20xx-2-R-12	In an Order Change it shall be possible to provide for information about the final price that the buyer expects to pay exclusive of any VAT. This makes it possible for the seller to verify against his price lists and contracts.
T-17016-2:20xx-2-R-13	An Order Change line shall provide for information about the quantity ordered and its unit of measure.
T-17016-2:20xx-2-R-14	An Order Change line shall provide for the name of the item.
T-17016-2:20xx-2-R-15	In an Order Change line it shall be possible to specify a Seller's identifier for the item.
T-17016-2:20xx-2-R-16	In an Order Change line it shall be possible to specify a standard identifier for the item.
T-17016-2:20xx-2-R-17	In an Order Change line it shall be possible to specify a Buyer's identifier for the item.
T-17016-2:20xx-2-R-18	An Order Change line shall provide for the price of the item.
T-17016-2:20xx-2-R-19	In an Order Change line it shall be possible to provide for the base quantity to which the price applies.
T-17016-2:20xx-2-R-20	In an Order Change line it shall be possible to state informative price discounts.
T-17016-2:20xx-2-R-21	In an Order Change line it shall be possible to state estimated allowances or charges.
T-17016-2:20xx-2-R-22	In an Order Change line it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-2-R-23	In an Order Change line it shall be possible to specify the delivery location.
T-17016-2:20xx-2-R-24	In an Order Change line it shall be possible to specify a referenced catalogue line.
T-17016-2:20xx-2-R-25	In an Order Change line it shall be possible to specify a referenced document.
T-17016-2:20xx-2-R-26	An Order Change line shall provide for the item VAT category.
T-17016-2:20xx-2-R-27	An Order Change line shall provide for the item VAT percentage.
T-17016-2:20xx-2-R-28	An Order Change line shall provide for the total amount excluding VAT.
T-17016-2:20xx-2-R-29	An Order Change line shall provide for information about the type of change made.

7.4 Order Cancellation (T-17016-2:20xx-3) specific business requirements

Table 7 specifies the business requirements of the Order cancellation.

Table 7 — Order cancellation business requirements

ID	Description
T-17016-2:20xx-3-R-1	An Order Cancellation shall refer to the Order that has to be cancelled.
T-17016-2:20xx-3-R-2	An Order Cancellation shall cancel the full/complete Order.

7.5 Order Response Simple (T-17016-2:20xx-4) specific business requirements

Table 8 specifies the business requirements of the Order Response Simple.

Table 8 — Order Response Simple business requirements

ID	Description
T-17016-2:20xx-4-R-1	An Order Response Simple shall refer to the Order that has to be acknowledged.
T-17016-2:20xx-4-R-2	An Order Response Simple shall acknowledge the full/complete Order.

7.6 Order Confirmation (T-17016-2:20xx-5) specific business requirements

Table 9 shows the business requirements of the Order Confirmation.

Table 9 — Order Confirmation business requirements

ID	Description
T-17016-2:20xx-5-R-1	An Order Confirmation shall refer to the Order that has to be confirmed.
T-17016-2:20xx-5-R-2	An Order Confirmation shall confirm the full/complete Order.

7.7 Order Rejection (T-17016-2:20xx-6) specific business requirements

Table 10 specifies the business requirements of the Order Rejection.

Table 10 — Order Rejection business requirements

D	Description
T-17016-2:20xx-6-R-1	An Order Rejection shall refer to the Order that has to be rejected.
T-17016-2:20xx-6-R-2	An Order Rejection shall reject the full/complete Order.

7.8 Order Response (T-17016-2:20xx-7) specific business requirements

Table 11 specifies the business requirements of the Order Response.

Table 11 — Order Response business requirements

ID	Description
T-17016-2:20xx-7-R-1	An Order Response shall enable the Buyer to reference tenders, contracts and documents that are relevant to prices and terms, including terms of delivery.
T-17016-2:20xx-7-R-2	The Order Response shall refer to the Order it is responding to.
T-17016-2:20xx-7-R-3	The supplier may respond to the order as a whole with accept or reject.
T-17016-2:20xx-7-R-4	The Order Response may state a reason for rejecting the order.
T-17016-2:20xx-7-R-5	The supplier may accept or reject individual order lines.
T-17016-2:20xx-7-R-6	A partial acceptance/rejection/modification shall refer to all order lines with no implicit acceptance/rejection.
T-17016-2:20xx-7-R-7	The lines in an Order Response shall refer to the corresponding order line number and to the corresponding item identification.
T-17016-2:20xx-7-R-8	Information elements that may be changed in the Order Response with respect to the order are: — Quantity — Delivery date/period (header level) — Item (substitute item) — Price Delivery date (line level)
T-17016-2:20xx-7-R-9	If the Order Response is rejecting or changing the Order, the Order Response should carry supplier contact information for the Buyer to use when resolving issues with the Order Response.

7.9 Order Change Confirmation (T-17016-2:20xx-8) Specific business requirements

Table 12 shows the business requirements of the Order Change Confirmation.

Table 12 — Order Change Confirmation business requirements

ID	Description
T-17016-2:20xx-8-R-1	An Order Change Confirmation shall refer to the Order Change that has to be confirmed.
T-17016-2:20xx-8-R-2	An Order Change Confirmation shall confirm the full/complete Order Change.

7.10 Order Change Rejection (T-17016-2:20xx-9) specific business requirements

Table 13 specifies the business requirements of the Order Change Rejection.

Table 13 — Order Change Rejection business requirements

ID	Description
T-17016-2:20xx-9-R-1	An Order Change Rejection shall refer to the Order Change that has to be rejected.
T-17016-2:20xx-9-R-2	An Order Change Rejection shall reject the full/complete Order Change.

7.11 Order Cancellation Confirmation (T-17016-2:20xx-10) specific business requirements

Table 14 specifies the business requirements of the Order Cancellation Confirmation.

Table 14 — Order Cancellation Confirmation business requirements

ID	Description
T-17016-2:20xx-10-R-1	An Order Cancellation Confirmation shall refer to the Order Cancellation that has to be confirmed.
T-17016-2:20xx-10-R-2	An Order Cancellation Confirmation shall confirm the full/complete Order Cancellation.

7.12 Order Cancellation Rejection (T-17016-2:20xx-11) specific business requirements

Table 15 specifies the business requirements of the Order Cancellation Rejection.

Table 15 — Order Cancellation Rejection business requirements

ID	Description
T-17016-2:20xx-11-R-1	An Order Cancellation Rejection shall refer to the Order Cancellation that has to be rejected.
T-17016-2:20xx-11-R-2	An Order Cancellation Rejection shall reject the full/complete Order Cancellation.

7.13 Order Agreement (T-17016-2:20xx-12) specific business requirements

Table 16 specifies the business requirements of the Order Agreement.

Table 16 — Order Agreement business requirements

ID	Description
T-17016-2:20xx-12-R-1	An Order Agreement shall enable the Buyer to reference tenders, contracts and documents that are relevant to prices and terms, including terms of delivery.
T-17016-2:20xx-12-R-2	In an Order Agreement it shall be possible to refer to the operation made on the Seller's IT system.
T-17016-2:20xx-12-R-3	In an Order Agreement it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-12-R-4	In an Order Agreement it shall be possible to provide for contact details of the department of the Buyer or natural person inside the Buyer who originated the order as a whole.
T-17016-2:20xx-12-R-5	In an Order Agreement it shall be possible to provide for information about the department of the Buyer or the external organization that is in charge of receiving and treating the invoice(s) related to the Order.
T-17016-2:20xx-12-R-6	In an Order Agreement it shall be possible to provide for details about delivery location (address and ID), some basic delivery terms, delivery time and contact person for the purpose of delivery.
T-17016-2:20xx-12-R-7	In an Order Agreement it shall be possible to provide for information about the external organization to which the goods are to be sent and that will take possession of them after delivery.

ID	Description
T-17016-2:20xx-12-R-8	In an Order Agreement it shall be possible to provide for information about the dates before and/or after which the Order Agreement lines shall be delivered.
T-17016-2:20xx-12-R-9	In an Order Agreement it shall be possible to provide for information about the value of items ordered and what prices, charges and totals (including estimate of VAT) are expected to be paid in a way that can be matched against an invoice.
T-17016-2:20xx-12-R-10	In an Order Agreement it shall be possible provide information needed to specify estimated allowance and charges on document level that apply to the order as a whole.
T-17016-2:20xx-12-R-11	In an Order Agreement is shall be possible to specify amounts to be paid in advance.
T-17016-2:20xx-12-R-12	In an Order Agreement it shall be possible to provide for information about the final price that the buyer expects to pay exclusive of any VAT. This makes it possible for the seller to verify against his price lists and contracts.
T-17016-2:20xx-12-R-13	An Order Change line shall provide for information about the quantity ordered and its unit of measure.
T-17016-2:20xx-12-R-14	An Order Change line shall provide for the name of the item.
T-17016-2:20xx-12-R-15	In an Order Change line it shall be possible to specify a Seller's identifier for the item.
T-17016-2:20xx-12-R-16	In an Order Change line it shall be possible to specify a standard identifier for the item.
T-17016-2:20xx-12-R-17	In an Order Change line it shall be possible to specify a Buyer's identifier for the item.
T-17016-2:20xx-12-R-18	An Order Change line shall provide for the price of the item.
T-17016-2:20xx-12-R-19	In an Order Change line it shall be possible to provide for the base quantity to which the price applies.
T-17016-2:20xx-12-R-20	In an Order Change line it shall be possible to state a price discount in terms of percentage on the gross price or a per unit discount.
T-17016-2:20xx-12-R-21	In an Order Change line it shall be possible to state estimated allowances or charges.
T-17016-2:20xx-12-R-22	In an Order Change line it shall be possible to specify a Buyer's accounting reference.
T-17016-2:20xx-12-R-23	In an Order Change line it shall be possible to specify the delivery location.
T-17016-2:20xx-12-R-24	In an Order Change line it shall be possible to specify a referenced catalogue line.
T-17016-2:20xx-12-R-25	In an Order Change line it shall be possible to specify a referenced document.
T-17016-2:20xx-12-R-26	An Order Change line shall provide for the item VAT category.
T-17016-2:20xx-12-R-27	An Order Change line shall provide for the item VAT percentage.
T-17016-2:20xx-12-R-28	An Order Change line shall provide for the total amount excluding VAT.

8 Data models

8.1 Use of the ePo ontology

8.2 Legend

Each information element, as well as groups of information elements, that constitutes the semantic data model is described as a row in the tables documented in the subsequent clauses, where the following information is provided:

ID	Level	Cardinality	Business Term	ePO concept	Description	Usage Note	Req. ID	Semantic data type
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ID: An identifier for the information element (BT - Business Term) and group of information elements (BG - Business term Group).

Level: Indicates on which level in the model the information element occurs:

- +: The first level of the model;
- ++: The second level of the model. The information element (or the group of information elements) is part of a group of information elements which is defined at the first level of the model;
- +++: The third level of the model. The information element (or the group of information elements) is part of a group of information elements which is defined at the second level of the model;
- ++++: The fourth level of the model. The information element is part of a group of information elements which is defined at the third level of the model.

Cardinality: Also known as multiplicity, is used to indicate if an information element (or group of information elements) is mandatory or conditional, and if it is repeatable. The cardinality shall always be analysed in the context of where the information element is used. Example: the Payee Name is mandatory in the core invoice model, but only when a Payee is stated and is relevant.

The following cardinalities exist:

- 1..1: Mandatory, minimum 1 occurrence and maximum 1 occurrence of the information element (or group of information elements) shall be present in any conformant instance document;

- 1..n: Mandatory and repeatable, minimum 1 occurrence and unbounded upper maximum occurrence of the information element (or group of information elements) shall be present in any conformant instance document;
- 0..1: Conditional, minimum 0 occurrences and maximum 1 occurrence of the information element (or group of information elements) may be present in any conformant instance document; its use depends on business rules stated as well as the regulatory, commercial and contractual conditions that applies to the business transaction;
- 0..n: Conditional and repeatable, minimum 0 occurrences and unbounded upper maximum occurrence of the information element (or group of information elements) may be present in any conformant instance document; its use depends on business rules stated as well as the regulatory, commercial and contractual conditions that applies to the business transaction.

Business Term: The name of the information element used in the core invoice model or the name of a coherent group of related information elements, provided to give logical meaning.

Description: A description of the semantic meaning of the information element.

Usage Note: Clarifying information on how the information element shall or may be used (such as calculation rules).

Req. ID: The requirement identifier, provided to show the traceability of the information element with the corresponding requirement defined in Clause 7.

Semantic data type: The data format that applies to the information element.

8.3 Order data model (T-17016-2:20xx-1)

Table 17 specifies the Order data model.

Table 17 — Order semantic data model

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BG-ORD-1	+	1..1	Order header information	epo-ord:Order		A group of business terms providing information on the formal request of the Buyer to the Seller specifying the goods, services or works to be delivered.			
BT-COM-1	++	1..1	Specification identification				To be discussed if needed or not in the data model		
BT-COM-2	++	1..1	Business process type identifier				To be discussed if needed or not in the data model		
BT-ORD-1-1	++	1..1	Order identifier	epo-ord:Order / adms:Identifier / rdf:PlainLiteral	?this adms:identifier / skos:notation ?value .	The identifier of the Order.			
BT-ORD-1-2	++	1..1	Order issue date	epo-ord:Order / xsd:dateTime	?this dct:issued ?value .	The date of formal issuance of the Order.			

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BT-ORD-1-3	++	0..1	Order issue time	epo-ord:Order / xsd:dateTime	?this dct:issued ?value .	The time of formal issuance of the Order.			
BT-ORD-1-4	++	0..1	Order type code	epo-ord:Order / at-voc-new:document-type	?this epo-cat:hasDocumentType ?value .	A code signifying the type of Order.			
BT-COM-3	++	1..1	Document currency code			The identifier of the currency of the monetary values used within the transaction.			
BT-COM-ORD-1	++	0..1	Buyer accounting reference	epo-ord:Order / rdf:PlainLiteral	?this epo-ord:hasAccountingCost ?value .	A textual value that specifies where to book the relevant data into the Buyer's financial accounts.			
BT-COM-ORD-2	++	0..1	Project reference identifier	epo-ord:Order / epo:Project / adms:Identifier / rdf:PlainLiteral	?this epo:refersToProject / adms:identifier / skos:notation ?value .	The identifier of the project the Order refers to.			

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BT-COM-ORD-3	++	0..1	Sales order reference	epo-ord:Order / adms:Identifier / rdf:PlainLiteral	?this epo-ord:hasSellerOrderID / skos:notation ?value .	An identifier for the Order, assigned by the seller.	Maybe should be present only in the other Order transactions, but not in the Order itself; Additional Information: This identifier is different than the identifier of the Order given by the Buyer and it is useful for internal purposes. WG approval 12/10/2023		

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BT-COM-ORD-4	++	0..1	Order level textual note	epo-ord:Order / dct:description	?this dct:description ?value .	A text conveying information that is useful to treat the Order.	It shall not be used to convey information of other BTs, Receivers in not expected to use the content of this term unless there is a commercial agreement or a regulatory decision		
BG-COM-ORD-1	+	0..1	Order validity period			A group of business terms providing information on the validity period of an Order.			
BT-COM-ORD-1-1	++	1..1	Order validity end date	epo-ord:Order / epo:Period / xsd:dateTime	?this epo:hasValidityPeriod / epo:hasEnd ?value .	The date at which the order validity period ends.			
BT-COM-ORD-1-2	++	0..1	Order validity end time	epo-ord:Order / epo:Period / xsd:dateTime	?this epo:hasValidityPeriod / epo:hasEnd ?value .	The time at which the order validity period ends.			

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BG-COM-ORD-2	+	0..1	Offer reference	epo:Offer		A group of business terms providing information on a preceding Offer.			
BT-COM-ORD-2-1	++	1..1	Offer reference identifier	epo:Offer / adms:Identifier / rdf:PlainLiteral	?this adms:identifier / skos:notation ?value .	The identifier of the Offer.			
BT-COM-ORD-2-2	++	1..1	Offer reference issue date	epo:Offer / xsd:dateTime	?this dct:issued ?value .	The date of formal issuance of the Offer.			
BT-COM-ORD-2-3	++	0..1	Offer reference issue time	epo:Offer / xsd:dateTime	?this dct:issued ?value .	The time of formal issuance of the Offer.			
BT-COM-ORD-2-4	++	0..1	Offer issuer identifier	epo-ord:OfferIssuer / epo-ord:Offer epo-ord:OfferIssuer / org:Organization / adms:Identifier / rdf:PlainLiteral	?this epo:distributesOffer ?value . ?this epo:playedBy / adms:identifier / skos:notation ?value .	An identifier of the issuer of the offer			

ID	Level	Cardinality	Business Term	ePO class path	ePO property path	Description	Usage Note	Req. ID	Semantic data type
BG-COM-1	+	0..1	Order reference			A group of business terms providing information on the Order being referenced to.			
BT-COM-1-1	++	1..1	Order reference identifier	epo-ord:Order / epo-ord:Order / adms:Identifier / rdf:PlainLiteral	?this epo:refersToPrevious / adms:identifier / skos:notation ?value .	The identifier of the referenced Order.			
BT-COM-1-2	++	1..1	Order reference issue date	epo-ord:Order / epo-ord:Order / xsd:dateTime	?this epo:refersToPrevious / dct:issued ?value .	The date of formal issuance of the referenced Order.			
BT-COM-1-3	++	0..1	Order reference issue time	epo-ord:Order / epo-ord:Order / xsd:dateTime	?this epo:refersToPrevious / dct:issued ?value .	The time of formal issuance of the referenced Order.			
BG-COM-ORD-3	+	0..1	Originator document reference	epo:Originator Request		A group of business terms providing information on a document in which the originator describes his needs.			