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Elektronska javna naročila - Arhitektura - 3. del: Smernice za prilagajanje

Electronic Public Procurement - Architecture - Part 3: Customisation Guideline

Elektronische öffentliche Auftragsvergabe - Architektur - Teil 3: Leitfaden für die Anpassung

Marchés publics électroniques - Architecture - Partie 3: Directive de adaptation

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35.240.20	Uporabniške rešitve IT pri pisarniškem delu	IT applications in office work
35.240.63	Uporabniške rešitve IT v trgovini	IT applications in trade

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**Electronic Public Procurement - Architecture - Part 3:
Customisation Guideline**

Marchés publics électroniques - Architecture - Partie
3: Directive de adaptation

Elektronische öffentliche Auftragsvergabe -
Architektur - Teil 3: Leitfaden für die Anpassung

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

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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FprCEN/TS 17011-3:2024 (E)

European foreword

This document 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 Vote on TS.

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: **eTendering Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the eTendering processes.
- 17015-series: **eCatalogue Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the eCatalogue processes.
- 17016-series: **eOrdering Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the eOrdering processes.
- 17017-series: **eFulfilment Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Delivery processes.

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Introduction

To enable flexible and streamlined development of the eProcurement specifications, this document has been designed to provide generic rules applicable to any eProcurement specification, to support adaptations required by the context, set out either by national rules or by sectorial needs.

It highlights the needs aimed to be covered, the various solutions and the rules they must adhere to so that interoperability can be achieved.

The terms “shall”, “shall not”, “should”, “should not”, “may”, “need not” “can” and “cannot” are to be interpreted according Annex H of Part 3 of the CEN-CENELEC Internal Regulations¹.

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¹ <https://www.cenelec.eu/membersandexperts/referencematerial/internalregulation.html>

FprCEN/TS 17011-3:2024 (E)

1 Scope

This document describes:

- the rationale for building customisation supporting business cases that are specific to their business environment while maintaining organisational and semantic interoperability with the TC 440 specifications;
- the difference between Usage specification and Extension specification;
- a methodology on how to define customisations on:
 - BII Transaction specification,
 - Business rules,
 - Code lists;
- how to claim compliance or conformance to a customisation of a TC 440 specification;
- the connection to the eProcurement Ontology project.

This specification does not describe the detailed process of building an extension.

2 Normative references

EN 17014-2² *Electronic Public Procurement – Pre-Award – Part 2: Transactions*

CEN/TS 17014-3-X,³ *Electronic Public Procurement – Pre-Award – Part 3-X: Syntax Binding, X*

prEN 17015-2,⁴ *Electronic Public Procurement – Catalogue – Part 2: Transactions*

CEN/TS 17015-3-X,⁵ *Electronic Public Procurement – Catalogue – Part 3-X: Syntax Binding, X*

prEN 17016-2,⁶ *Electronic Public Procurement – Ordering – Part 2: Transactions*

CEN/TS 17016-3-X,⁷ *Electronic Public Procurement – Ordering – Part 3-X: Syntax Binding, X*

EN 17017-2,⁸ *Electronic Public Procurement – Fulfilment – Part 2: Transactions*

² Under preparation.

³ Under preparation.

⁴ Under preparation.

⁵ Under preparation.

⁶ Under preparation.

⁷ Under preparation.

⁸ Under preparation.

CEN/TS 17017-3-X,⁹ *Electronic Public Procurement – Fulfilment – Part 3-X: Syntax Binding, X*

3 Terms and definitions

3.1

agent

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

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 [3.4]

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 [3.2] having the same goals

3.5

collaboration

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

3.6

eProcurement document model

involves all the transactions [3.11] used in the Business Processes [3.2] and in the Business Process Variants [3.3] as described by CEN/TC 440 Electronic public procurement

3.7

Extension specification

describes the use of additional information elements, i.e., information elements not defined in the core eProcurement document model [3.6], or other alterations that add functionality

Note 1 to entry: The resulting document model will contain information elements that do not form a strict subset of the core eProcurement document model and the resulting document instance will be semantically conformant [3.9] with the eProcurement model. An extension specification may also provide additional explanations and examples.

3.8

semantically compliant

using all or some features of the eProcurement document model [3.6] in accordance with its rules

Note 1 to entry: Based on TOGAF definition of a compliant specification [2].

⁹ Under preparation.

FprCEN/TS 17011-3:2024 (E)**3.9****semantically conformant**

using all or some features of the eProcurement document model [3.6] in accordance with its rules and extended with additional features.

Note 1 to entry: Based on TOGAF definition of a conformant specification [2].

3.10**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 [3.5]

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.

3.11**transaction**

content of data exchanged or shared between the agents [3.1] in a collaboration [3.5]

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.

3.12**Usage specification**

describes and delimitates the use of the information elements of the eProcurement document model [3.6] in a given context

Note 1 to entry: The resulting document instance will be semantically compliant with the eProcurement document model. A usage specification may also provide additional explanations and examples

4 The challenge of interoperability**4.1 Interoperability through standardization**

The eProcurement document model has been carefully designed to meet the commercial requirements for electronic eProcurement in the vast majority of public procurement situations, whilst also meeting the needs for an eProcurement instance document in transactions between business enterprises. The eProcurement document model is expected to meet the needs of EU Member State legal systems for public procurement regulations. Information elements will usually be structured and allow for automated processing, although some may only be available in textual form and thus require human intervention.

The eProcurement document model thus represents the baseline for semantic interoperability in eProcurement document exchange.

Trading partners are, however, free to organize the use of appropriate extensions comprising additional information elements and functionalities not included in the eProcurement document model. Such extensions should preferably be created on a community basis.