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**English Version** 

## Electronic public procurement - Business interoperability interfaces (BII), e-Tendering - Part 101: Overview

Marchés publics électroniques - Interfaces d'interopérabilité commerciale - Appel d'offres - Partie 101: Vue d'ensemble

Elektronisches öffentliches Beschaffungswesen -Schnittstellen für Geschäftsinteroperabilität (BII), e-Tenderingt - Teil 101: Überblick

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

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#### **European foreword**

This document (CEN/TR 17014-101:2018) has been prepared by Technical Committee CEN/TC 440 "Electronic public procurement", the secretariat of which is held by Danish Standards.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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.
- 17012-series: **e-Procurement Business Term Vocabulary**, providing a consistent set of business terms used in the e-Procurement processes aligned with the work in CEN/TC 434 as well as actions currently underway under the ISA work program.
- 17013-series: **e-Notification Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Notification processes.
- 17014-series: **e-Tendering Business Interoperability Specifications**, providing a set of specifications outlining business choreography, transaction, syntax binding specifications and guidelines required to support the e-Tendering 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.
- 17016-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.

#### Introduction

The objective of the work in CEN/TC 440, Electronic public procurement, is to provide standards, in the form of Business Interoperability Interface specifications, as a tool to ensure interoperability and thus facilitate efficient and effective electronic information exchange in the (public) e-Procurement processes between the buyer and the seller.

This is to facilitate end-to-end e-Procurement<sup>1</sup> including both pre-award and post-award processes, see Figure 1.

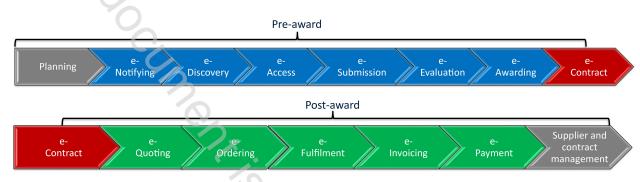


Figure 1 — The pre-and post-award processes of public e-Procurement

e-Procurement refers to the use of electronic communications and transaction processing by public sector organisations and economic operators when buying/providing supplies and services or tendering works, see Table 1 and Table 2.

subscription

A subscription
B subscription
B subscription
B subscription

<sup>&</sup>lt;sup>1</sup> The concept of end-to-end procurement is further elaborated in COM(2013) 453 final on end-to-end e-Procurement to modernise public administration [6]

	Business Areas Example information excha			
	Planning	Planning of milestones and electronic tracking of the achievements.		
Pre-award	e-Notifying	Information exchange, publication and dissemination of notices related to procurement opportunities such as Prior Information Notices, Contract Notices and Contract Award Notices.	<ul><li> Prior Information Notice</li><li> Contract Notice</li><li> Contract Award Notice</li></ul>	
	e-Discovery	Search for interesting business opportunities on a publication portal.	<ul> <li>Search notice query transaction</li> <li>Notice metadata transaction</li> </ul>	
	e-Access	Electronic access to tender documents and specifications, including electronic access to supporting documents for suppliers in the preparation of a Tender response, e.g. clarifications, questions and answers. This includes expressing interest in a business opportunity to be listed in the procurement procedure.	<ul> <li>Express Interest in Call for Tenders</li> <li>Call for tender</li> <li>European Single Procurement Document (ESPD)</li> <li>Pre-award Catalogue Request</li> <li>Question and answers</li> </ul>	
	e- Submission	Secure submission of tenders and/or catalogues in electronic format to the contracting body (contracting authority/ contracting entity), which can receive and process it in compliance with applicable legal requirements.	<ul> <li>Tender</li> <li>Virtual Company Dossier</li> <li>European Single Procurement Document (ESPD)</li> <li>Pre-award Catalogue</li> </ul>	
	e-Evaluation	Evaluation of the electronic tenders and/or catalogues received by the contracting body following the closing deadline of a tender competition, including electronic exchange to enable the clarification of tender content by evaluations.	• Clarification questions and answers	
	e-Awarding	Information exchange regarding award of the contract, including electronic exchange to support tenderers requesting additional information about the result of the procedure.	Additional information	
	e-Contract	Signing, enactment of a contract / agreement and possibly its related catalogue through electronic means between the contracting bodies and the winning tenderer(s), as well as the signing of contract amendments and possibly their related catalogue.	<ul> <li>Draft Contract</li> <li>Signed Contract</li> <li>Catalogue Request</li> <li>Catalogue</li> </ul>	
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Table 1 — Business areas in the pre-award phase of public e-Procurement

<sup>&</sup>lt;sup>2</sup> It should be noted that the business transactions listed are examples only and does not constitute the full list of relevant business transactions.

	Business Areas		Example information exchange
Post-award	e-Quoting	Activities preparatory to issuing an order. including the exchange of electronic messages with winning tenderers who have signed a framework agreement with the contracting body, a request for quotation and the response to the quotation (e.g. framework agreements with reopening competition), etc.	<ul><li> Request for Quotation</li><li> Quotation</li><li> Punch-out</li></ul>
	e-Ordering	Issuing of an electronic order by the contracting body and its acceptance by the supplier or conversely issuing of an electronic order agreement by the supplier.	<ul><li>Order</li><li>Order Confirmation</li></ul>
	e-Fulfilment	Electronic exchange of information that enable monitoring the execution of the order or the contract.	<ul><li>Despatch Advice</li><li>Receiving Advice</li></ul>
	e-Invoicing	Issuing, sending, receiving and processing invoices and billing data.	• Invoice • Credit Note
	e-Payment	Financial payment involving currency transfer between a contracting body and a supplier.	
	Supplier and contract management	Management of supplier relationships and contracts, including archiving.	

The aim of CEN/TC 440 is to provide a focused and coordinated approach to development of appropriate European Standards that:

- Build upon and complement existing initiatives, such as CEN WS/BII3 and CEN/TC 434, and be part of a wider e-Business standardization portfolio;
- Facilitate end-to-end e-Procurement and thus support European policy objectives expressed in e.g. "Digital Agenda for Europe" [4] and "A strategy for e-procurement (COM(2012) 179 final" [5], "Endto-end e-procurement to modernise public administration (COM(2013) 453 final)" [6], the "public procurement directive" [2];
- Recognize the rather ambitious timeline envisaged for implementation of the new procurement directives, stressing the importance of available standards as a basis for compliant software solutions to be available in the market;
- Allow for user engagement and participation as well as effective production of the standards required by being focused on public procurement needs (but take generic applicability for 'Business-to-Business' into account as and when relevant);
- Facilitate improved efficiency and cost reduction in both public and private sector entities;
- Focus on cross-border and cross-platform interoperability to allow economic operators to select the platform of their choice and still can participate in procurement opportunities across the full European market.

The deliverables from CEN/TC 440 collectively provide a framework for interoperability in pan-European electronic transactions for e-Procurement expressed as a set of technical specifications that is expected to:

- allow for efficient and effective implementation of electronic exchange of documents in public e-Procurement as well as in transactions between enterprises;
- support implementation of end-to-end e-Procurement including both pre-award and post-award processes for public procurement;
- facilitate interoperability between independent solutions;
- provide an added value to stakeholders, such as solution and service providers, as well as contracting bodies and economic operators involved in the e-Procurement process.

The work in CEN/TC 440 focuses on interoperability aspects of the exchange of information between business partners. Back-office information processing, e.g. the internal processing and business evaluation of the actual information content, is out of scope. To ensure interoperability the information exchange will be described in the form of:

- Choreography specifications, describing the flow of the business process and the sequence of information exchange;
- Business transaction information models, describing the information content of each information exchange;
- Syntax binding specifications, describing how the information content of a business transaction information model is represented in a specific syntax;
- Guidelines, providing additional guidance on specific topics.

It should be noted that CEN/TC 440 deliverables do not provide the full legal framework enabling business partners to fulfil their legal obligations. It is the responsibility of the business partners themselves to ensure that the business documents exchanged respect any rules defined by relevant legislation, including requirements related to personal data protection, as well as rules stated as part of a trading relationship between them.

#### 1 Scope

This document provides an overview of the set Business Interoperability Interfaces (BII) specifications for e-Procurement covering the business areas of e-Discovery, e-Access, e-Submission, e-Evaluation, e-Awarding, e-Contract and e-Quoting.

#### 2 Normative references

There are no normative references in this document.

#### 3 Terms and definitions

No terms and definitions are listed in this document.

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 <a href="http://www.iso.org/obp">http://www.iso.org/obp</a>

#### **4** Abbreviations

In this document the following abbreviations apply according to Table 3.

Abbreviation	Explanation	
SAT	Solution architecture template	
EIRA	European Interoperability Reference Architecture	
IOP	Interoperability	
ABB	Architectural Building Block	
SBB	Solution Building Block	

### Table 3 — Used abbreviations