

**Business Interoperability Specification**

**OpenPEPPOL AISBL**

**Pre Award Coordinating Community**

**ICT - Models**

BIS eDelivery guide

for pre-award

**Version: 1.0**

**Status: Concept**

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# Introduction

This document describes the common building blocks to able execution of pre-award processes. The building blocks provide transport specifications, such as envelope describtion, the use of a container to package documents and signature requirements.

All requirements in this document has been designed, tested and approved in the European Large Scale Pilot eSENS and as such part of the European librabry of digital building blocks (DSI's).

## Audience

The audience for this document is organizations wishing to be PEPPOL enabled for exchanging pre-award business documents, and/or their ICT-suppliers. These organizations may be:

 Service providers

 Contracting Authorities

 Economic Operators

 Software Developers

More specifically it is addressed towards the following roles:

 ICT Architects

 ICT Developers

 Business Experts

For further information on PEPPOL/OpenPEPPOL please see [COMMON BIS].

# References

[PEPPOL] <http://www.peppol.eu/>

[PEPPOL\_EIA] <http://www.peppol.eu/peppol_components/peppol-eia/eia>

[PEPPOL\_Transp] <http://www.peppol.eu/peppol_components/peppol-eia/eia#ict-architecture/transport-> infrastructure/models

[PEPPOL\_CodeList] https://github.com/OpenPEPPOL/documentation/tree/master/Code%20Lists

[COMMON BIS] To be developed

[CEN\_BII2] [http://www.cenbii.eu](http://www.cenbii.eu/)

[eSENS] <http://wiki.ds.unipi.gr/display/ESENSPILOTS/D5.6-1+-+5.1.1+-+eTendering>

[DSI] https://joinup.ec.europa.eu/news/cef-building-blocks-cros

[UBL] <http://docs.oasis-open.org/ubl/UBL-2.2.html>

[Schematron] [http://www.schematron.com](http://www.schematron.com/)

[XSLT] <http://www.w3.org/TR/xslt20/>

[EIF] European Interoperability Framework 2.0, found at:<http://ec.europa.eu/isa/library/index_en.htm> [http://ec.europa.eu/isa/documents/isa\_annex\_ii\_eif\_en.pdf](%20http://ec.europa.eu/isa/documents/isa_annex_ii_eif_en.pdf)

[GS1 Keys] <http://www.gs1.org/barcodes/technical/id_keys>

[ETSI] https://portal.etsi.org/webapp/WorkProgram/SimpleSearch/QueryForm.asp

# Document history

## Revision history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Organisation** | **Description** |
| 0.1 | 01-02-2018 | Chander Khoenkhoen | PIANOo | First version |
| 0.2 | 08-03-2018 | Kornelis Drijfhout | PIANOo | Addressed review comments difi |
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# ASiC-E container with CAdES signature

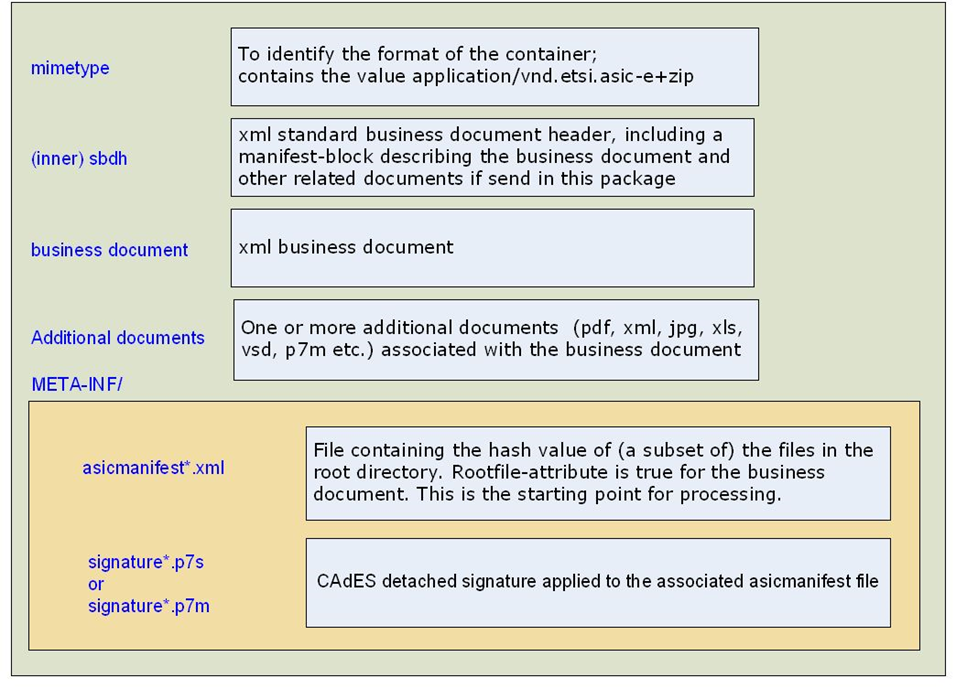
## Introduction

There is a need to pack all separate parts of a message together in order to achieve a single payload document for the transport network. This note specifies use of an ASiC-E container (Associated Signature Container Extended) for this purpose. ASiC is based on the zip format.

ASiC-E includes an ASiC manifest that holds metadata, identification of all parts inside the container, and hash values of these parts. Parts in this case are the SBDH, the CEN BII document, and all attachments that are included as separate parts. ASiC requires the manifest to be signed by a detached signature. Since the manifest holds hash values of all other parts, these are implicitly also signed. The signature is placed in the ASiC container as a separate part.This packaging allows security to be applied at message level, preserving security properties across asynchronous message passing with temporal storage at intermediate nodes. Authenticity and integrity are ensured by the ASiC signature, and confidentiality can be achieved by encrypting relevant parts.

The container described in this chapter is based on ETSI TS 102 918 V1.2.1[[1]](#footnote-1).

## Description



*Picture 1: Directory structure of an ASiC-E container with CAdES signature*

The container includes the following files:

### mimetype

* The purpose of this file is to identify the format of the container.
* Fixed name with the value “application/vnd.etsi.asic-e+zip”.

### sbdh.xml (SBDH)

* Xml file containing the standard business document header.
* It includes manifest-block for describing the business document and other related documents.
* All files except mimetype (having fixed name and value) and sbdh will be described in the manifest block.

### Business documents

* Xml file containing the business document.+

### Additional documents

* One or more documents of different types e.g. xml, pdf, jpg, xls, p7m and vsd associated with the business document and that needs to be signed.
* Files which are signed and encrypted has extension p7m.

### META-INF/asicmanifest\*.xml

* One or more files containing the hash values of all the documents (except mimetype) or the hash values of a subset of the data objects.
* If Rootfile attribute present and set to "true" it specify how to begin processing the container.The rootfile is the business document to be processed e.g. biitrdm082.xml.
* If one or more documents needs to be signed separately than the name should be suffixed by a number starting with 1.

Example: asicmanifest1.xml, asicmanifest2.xml etc.

### META-INF/signature\*.p7s

* One or more files containing the signature of the asicmanifest\*.xml.
* If one or more documents needs to be signed separately than the name should be suffixed by a number starting with 1 e.g. signature1.xml, signature2.xml etc.
* For each asicmanifest\*.xml file exactly one associated signature file must be present.

The sub directory META-INF includes an optional file manifest.xml, containing an overview of the files in the main directory of the container (except the mimetype).

### Additional rules

For the implementation of the transactions the following additional rules are implied:

* Exactly one asicmanifest.xml and consequently one signature.xml file will be used.
* In asicmanifest.xml the hash value of all the files, except mimetype will be calculated and stored.
* For calculating the hash value sha256 hash algorithm will be used.
* The mimetype, sbdh, business document, asicmanifest and the signature are not encrypted.
* Additional documents can be encrypted[[2]](#footnote-2) depending on the content of the document
* When encryption is required, each document is encrypted separately.

# Identifier Policies

## Introduction

PEPPOL has defined a Policy for Using Identifiers that specifies how to use identifiers in both its transport infrastructure and within the documents exchanged across that infrastructure. It also introduces principles for any identifiers used in the PEPPOL environment. The e-Tendering pilot adopts and extends the PEPPOL Policy in the following ways:

## Party Identifiers used in business (UBL) documents

The @schemeID attribute must be populated in all instances of the ID element when used within a PartyIdentification-container and in all instances of the EndpointID element when used within a Party-container.

Examples of usage in PartyIdentification and EndpointID:

|  |  |
| --- | --- |
| 1  2  3  4  5 | <cbc:EndpointID schemeID="NL:KVK">12345678</cbc:EndpointID>  ...  <cac:PartyIdentification>           <cbc:ID schemeID="NO:ORGNR">999888777</cbc:ID>  </cac:PartyIdentification> |

## Document Identifiers used in business (UBL) documents

All BIS specifications that are described in this page are using the UBL 2.2 syntax. The namespace of the XML-message does only communicate the major version number. Since it is important for the receiver to also know what minor version of the syntax that is used, the element UBLVersionID must be stated with the value 2.2:

|  |  |
| --- | --- |
| 1 | <cbc:UBLVersionID>2.1</cbc:UBLVersionID> |

## Profile ID and Customization ID

The PEPPOL Customization ID identifies the specification of content and rules that apply to the transaction. This BIS has required some minor additions and changes to the CEN BII transaction. Following the CEN BII methodology any extension must be communicated by adding an extension ID onto the Customization ID.

The full syntax is:

|  |  |
| --- | --- |
| 1 | <transactionId>:(restrictive|extended|partly):<extensionId>[(restrictive|extended|partly):<extensionId>] |

Which customization identification should be used, is based on which transaction is sent, and the extension identification for BIS documents.

The table below shows an overview of the values to be used for the Customization ID per transaction.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TransactionID** | **Transaction name** | **Short description** | **ProcessID** | **CustomizationID** |
| T006 | TenderReceipt | CA receives the tender and sends acknowledgement to EO | urn:fdc:peppol.eu:2017:pracc:p003:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm045:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t006:ver1.0 |
| T001 | ExpressionOfInterestRequest | EO shows his interest in the procurement project | urn:fdc:peppol.eu:2017:pracc:p001:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm081:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t001:ver1.0 |
| T002 | ExpressionOfInterestResponse | CA SubscibeInterestConfirmations interest EO and sends acknowledgement to EO including all documents | urn:fdc:peppol.eu:2017:pracc:p001:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm082:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t002:ver1.0 |
| T004 | CallForTenders | CA sends all procurement project documents to EO | urn:fdc:peppol.eu:2017:pracc:p002:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm083:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t004:ver1.0 |
| T005 | Tender | EO sends his tender for the procurement project to CA | urn:fdc:peppol.eu:2017:pracc:p003:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm090:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t005:ver1.0 |
| T003 | TenderStatusRequest | EO requests CA for the procurement project documents | urn:fdc:peppol.eu:2017:pracc:p002:01:1.0 | urn:www.cenbii.eu:transaction:biitrdm097:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t003:ver1.0 |

**Note for implementers**: Please note that the process identifiers in the document instance MUST correspond to the SMP process identifier.

## Issuing Agency code values

All Issuing Agency Codes for Party Identifiers are to be taken from the normative version of the code list described in the following section.

Currently this is maintained within PEPPOL but it is intended to transfer this responsibility to the CEN BII2 workshop in the near future, and for long term sustainability, to a permanent standards organization. This maintenance is necessary because of the potential for growth of this code list.

Applies to: all participant/party identifiers in all components

The values for the initial PEPPOL Issuing Agency Code list were taken from the NESUBL PartyID code list but this has been extended to cover use by all PEPPOL pilots and includes other known Issuing Agencies (from e.g. ISO 6523 ).

It is significant that this list will need ongoing extension under governance procedures currently being developed. To ensure sustainability and proper governance it is proposed to include only Issuing Agency Codes (IACs) in the following order of priority:

1. International recognized standard schemes, then
2. International de-facto accepted schemes, then
3. Nationally defined schemes

Note that BusDox uses a numeric code value for Issuing Agencies whereas CEN BII uses mnemonic values. To assist in aligning the mnemonic codes of CEN BII with the numeric codes of BusDox, each BII mnemonic code has been given a numeric equivalent based on the ISO 6523 set of International Code Designators. The actual values for numeric International Code Designators were based on the following allocation criteria:

1. ISO 6523 International Code Designator (if known), or
2. ISO 9735 Identification code qualifier (if known), or
3. An incremental number starting from 9900 (issued by PEPPOL/CEN BII)

Even though these numeric values are based on ISO code sets, they form a separate CEN BII code set because they contain additional values. Therefore the Issuing Agency for all numeric codes is CEN BII and not ISO 6523.

The normative version of the code list is available at [PEPPOL\_CodeList].

Note: rows marked as deprecated should not be used for newly issued documents, as the respective identifier issuing agency is no longer active/valid. Deprecated scheme IDs may however not be reused for different agencies as existing exchanged documents may refer to them.

## Additional rules

### Enveloping rules

CENBII’s CWA 3456 Part 105 profile 35 - Advanced Tendering with Pre-award Catalog is the most generic specification regarding enveloping rules in eTendering domain.

In order to fulfill *profile 35 section 3.1.1* *Enveloping* of the aforementioned generic specification, and also to support the use case of a single End Entity (PEPPOL Participant, ie Contracting Authority or Economic operator) using multiple Tender Systems, the following mapping/enveloping rules are established:

* BIS: the content of Endpoint ID field shall be the receiver Tender System PEPPOL Identifier
* SBDH: The value of EndpointID field shall be mapped in the Receiver/Identifier field of SBDH as an iso6523-actorid-upis identifier (see SBDH profile)

### Governance rules for identifiers

* For each tender project, the Contracting Authority shall publish in the “notice”, ”call for tender” or “invitation to tender” both PartyIdentification ID and Endpoint ID identifiers in use by itself throughout the project.
* For each tender project, the Tender Systems serving Economic Operators shall obtain from the respective EO and maintain the CA’s published PartyIdentification ID and Endpoint ID as per above.
* For each tender project, the Tender System serving the Contracting Authority shall obtain from the latter (or indirectly from a Standard Business Documents originating from Economic Operators) and maintain the PartyIdentification ID and Endpoint ID identifiers for each Economic Operator.
* For each tender project, all Tender Systems shall use the obtained PartyIdentification ID and Endpoint ID identifiers as per above when generating business messages, and in accordance with the Enveloping rules set in the previous section.
* Tendering Systems shall register their identifier in the SMP, in order that messages be properly routable by eDelivery.

# REM Evidence Profile

## Introduction

The Registered Electronic Mail-Management Domain (REM-MD) Evidence is based on ETSI TS 102 640-2 V2.1.1[[3]](#footnote-3). It contains evidence regarding the time of arrival of a tender and the hash value of the payload (the binary asic-e container), together with information of the sender and receiver of the tender. It is created by the receiving access points (evidence emitter) and send to the receiving etendering system. The REM is created when the SBDH flag **IsNonRepudiationOfReceiptRequired** is true for a message. The XSD of the REM Evidence can be found at http://wiki.ds.unipi.gr/download/attachments/31424684/TS02640\_v2.xsd?version=2&modificationDate=1479922272000&api=v2

## Description

The table below describes the specification for the REM-MD Evidence of delivery/non delivery.

\*(In the table below: M=Mandatory, O=Optional)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element / Attribute** | **M/O\*** | **Card.** | **Additional requirements / remarks** | **Value / example** |
| **Attribute version** | **M** | 1 | Specifies the version of the standard to which the REM-MD Evidence adheres. | Fixed value: 2 |
| **EventCode** | **M** | 1 | Value if message has been delivered to recipient. The negative case is out of scope. | Fixed value: http:[uri.etsi.org/REM/Event#Delivery](http://uri.etsi.org/REM/Event#Delivery) |
| **EvidenceIdentifier** | **M** | 1 | **Unique identifier for REM-MD** Evidence as computed by the Evidence issuer. This identifier identifies contains the message ID of this REM Evidence. This is a GUID.  Use the message ID of the transport protocol receipt to fill this element and thus establish a link between the two messages. This may be necessary to trace the transport protocol receipt in the event of a dispute. | Example: 6ff84f9b-63fc-454a-93a4-a724ba0f41ce |
| EvidenceIssuerPolicyID | O | 0..1 | OID or URI specifying policy that applies to the related REM-MD Evidence issuance. A reference to e-SENS eTendering Business Interoperability Specifications for Submit Tender, BIS54. | Example: [http://www.peppol.eu/ressource-library/ technical-specifications/BIS54.doc](http://www.peppol.eu/ressource-library/technical-specifications/BIS54.doc) |
| **EvidenceIssuerDetails** | **M** | 1 | The entityname of the Evidence Issuer. | Example: Holodeck B2B, UPRC Access Point |
| **EventTime** | **M** | 1 | This element will contain the time when the last bit of the message is received from the network to the AP. The granularity consist of date plus hours, minutes and secons, with the decimal fraction of a second truncated. Format:**YYYY-MM-DDThh:mm:ssTZD** | Example: **2017-01-12T12:30:15+01:00** |
| **SenderDetails** | **M** | 1 | Sender of the original message. This can be copied from the SBDH. |  |
| AttributeElectronicAddress |  |  | Value of sbdh:**Sender/ID** | Example: 0106:30058019 |
| [AttributeElectronic Address/@scheme](mailto:AttributeElectronicAddress/@scheme) |  |  | Value of sbdh:**Sender/ID/@Authority** | Fixed value:**iso6523-actorid-upis** |
| **RecipientsDetails** | **M** | 1 | The receiver of the original message. This can be copied from the SBDH. |  |
| **EntityDetails** | **M** | 1..n |  |  |
| AttributeElectronicAddress |  |  | Value of sbdh:**Receiver/ID** | Example:0096:10213231 |
| [AttributeElectronic Address/@scheme](mailto:AttributeElectronicAddress/@scheme) |  |  | Value of sbdh:**Receiver/ID/@Authority** | Fixed value:**iso6523-actorid-upis** |
| **SenderMessageDetails** | **M** | 1 | Message subject, Id and hash value over the delivered message |  |
| Attribute IsNotification | **M** | 1 | Field isNotification indicates whether the message whose details are provided is a notification (a message containing a pointer to the sender's message) or not. | Fixed value:**false** |
| MessageSubject | **M** | 1 | It contains the value of the document identifier of the message. Value of SBDH: **BusinessScope/InstanceIdentifier** where BusinessScope/Type is equal to DOCUMENTID | Example: **urn:oasis:names:specification:ubl: schema: xsd:Tender-2::Tender## urn:www.cenbii.eu: transaction: biitrdm090:ver3.0::2.1** |
| uaMessageIdentifier | O | 1 | This field contains an identifier as computed by the user's etendering system. An unique identification key to identify the procurement project. Value of sbdh:**BusinessScope/Scope/Identifier** where BusinessScope/Type is equal to DOCUMENTID. | Example: 123456789 |
| MessageIdentifierByREMMD | **M** | 1 | This contains the identifier of the original message. This value is needed to create the relation between the original message and the Rem Evidence. Value of SBDH:**DocumentIdentification/InstanceIdentifier** | Example: 8f26a504-a1a1-4f5b-88cd-4d4d0efd2c72 |
| DigestMethod | **M** | 1 | Contain the message's digest algorithm identifier. | Fiexed value:<http://www.w3.org/2001/04/xmlenc#sha256> |
| DigestValue | **M** | 1 | Contain the digest value computed on the sender's message. Digest to be computed over the ASiC-E container, over the binary ASiC-E contents (not over it's MIME container).  Digest of the binary file with the extension "asice". | Example: e0d123e5f316bef78bfdf5a008837577 |
| Extensions | O | 0..1 | This element can be used to include the transport protocol receipt. This is a non-critical element which can be ingnored by the receiver. |  |
| **Signature** | **M** | 0..1 | This element in **XAdES-B** format is used to sign the Rem Evidence with the certificate fo the Evidence Issuer. | These are the fixed parameters to used for the signature:  CanonicalizationMethod Algorithm: [http://www.w3.org/TR/2001/ REC-xml-c14n-20010315](http://www.w3.org/TR/2001/REC-xml-c14n-20010315) SignatureMethod Algorithm : [http://www.w3.org/2001/04/ xmldsig-more#rsa-sha256](http://www.w3.org/2001/04/xmldsig-more#rsa-sha256) Transform Algorithm: [http://www.w3.org/2000/09/ xmldsig#enveloped-signature](http://www.w3.org/2000/09/xmldsig#enveloped-signature) DigestMethod Algortihm:  [http://www.w3.org/2001/04/ xmlenc#sha256](http://www.w3.org/2001/04/xmlenc#sha256) |

# SBDH Profile

## Introduction

SBDH (Standard Business Document Header) provides an XML format for a standardised business document envelope. The SBDH is based on UN/CEFACT STANDARD BUSINESS DOCUMENT HEADER Technical Specification Version 1.3.

## Description

The table below describes each of the elements of the SBDH.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SBDH Element / Attribute** | **Usage in eTendering pilot** | **OPTIONALITY** | **Occ** | **Value / Example** |
| | StandardBusinessDocumentHeader | The UN/CEFACT standard, containing information about the routing and processing of the business document. It also identifies the message set that is sent together with on SBDH and the version number of the document(s) contained. Header information MUST be provided using the ‘StandardBusinessDocumentHeader’ element. | MANDATORY | 1..1 | - |
| --| HeaderVersion | Version number of the SBDH standard used. The value of the ‘HeaderVersion’ element MUST be set to ‘1.0’. This is the version number of the standard. | MANDATORY | 1..1 | Value: 1.0 |
| --| Sender | Sender of the message, party representing the organization which created the standard business document. The ‘Sender’ tag MUST be used exactly only once. | MANDATORY | 1..1 | - |
| ----| Identifier | A unique identification key for the sender party. The value of the ‘Identifier’ element of ‘PartnerIdentification’ type MUST be in the [iso6523-actorid-upis] list. The value must be preceded by the schemeId. | MANDATORY | 1..1 | Example: 0106:12345678 |
| ----| Authority | Authority agency of the identification key. The ‘Authority’ attribute MUST be used. | REQUIRED | 0..1 | Value: iso6523-actorid-upis |
| --| Receiver | Receiver of the message, party representing the organization which receives the standard business document. The ‘Receiver’ tag MUST be used at least once and can occur multiple times. | MANDATORY | 1..1 | - |
| ----| Identifier | A unique identification key for the receiver party. The value of the ‘Identifier’ element of ‘PartnerIdentification’ type MUST be in the [iso6523-actorid-upis] list. The value must be preceded by the schemeId. | MANDATORY | 1..1 | Example: 0106:67654322 |
| ----| Authority | Authority agency of the identification key. The ‘Authority’ attribute MUST be used. | REQUIRED | 0..1 | Value: iso6523-actorid-upis |
| --| DocumentIdentification | Identification information for the document | MANDATORY | 1..1 | - |
| ----| Standard | The name of the document standard contained in the payload. The value of the element ‘Standard’ MUST be set to the value UBL. | MANDATORY | 1..1 | Value: UBL |
| ----| TypeVersion | The version number of the UBL standard used. The SBDH specification requires that all documents sent with one header have the same version number. | MANDATORY | 1..1 | Example: 2.2 |
| ----| InstanceIdentifier | Description which contains reference information which uniquely identifies this instance of the Standard Business Document (SBD) between the ‘Sender’ and the ‘Receiver’. This identifier identifies this document as being distinct from others. It contains the message ID. This is a GUID. | MANDATORY | 1..1 | Example: 5469cc5c-f15d-4631-b47d-a348f646ab7a |
| ----| Type | This element identifies the type of the document. The value of the ‘Type’ element of ‘DocumentIdentification’ element MUST be set to the name of the XML element that defines the root of the business document. This is the name of the global XML element declared in the root schema for the business document in consideration. If there is a business need to send multiple types of documents, then the multiple types MUST be business documents related to each other and having the same version identifier. If sending multiple types, the value of the ‘Type’ element of the ‘DocumentIdentification’ element MUST be a list of comma separated values (CSV) of the multiple types. | MANDATORY | 1..1 | Examples: ExpressionOfInterestRequest, ExpressionOfInterestResponse, TenderStatusRequest |
| ----| MultiType | Flag to indicate that there is more than one type of business document in the payload of the SBDH. The value of the ‘MultiType’ element of ‘DocumentIdentification’ element MUST be set to ‘true’ if sending multiple types of business document, else either the element may be skipped or if included then the value MUST be set to ‘false’. | OPTIONAL | 0..1 | false or true |
| ----| CreationDateAndTime | Date and time of the SBDH document creation. The value of the ‘CreationDateAndTime’ element MUST be set to the date and time when the ‘document originating application’ or the parser created the document. This value will typically be populated by the trading partner and will typically differ from the time stamping of the message by the communications software. | MANDATORY | 1..1 | Example: 2015-05-08T17:30:00+01:00 |
| --| Manifest | Manifest that describes the business documents and related items, if any being sent in this package. | OPTIONAL | 0..1 |  |
| ----| NumberOfItems | The count of number of items associated with this package. | MANDATORY | 1..n | Example: 2 |
| ----| ManifestItem | Provides information about the referenced item information; Repeatable if there is more than one item or attachments. | MANDATORY | 1..1 |  |
| ------| MimeTypeQualifierCode | Code describing whether the contents are XML or EDIFACT or X12, etc. syntax. Types are defined by IANA (see <http://www.iana.org/assignments/media-types/>). The first item must always reference the main document, which constitutes the entry point for package. | MANDATORY | 1..1 | Value of first item: application/xml Successive items should have mimetype according to the contents e.g application/pdf |
| ------| UniformResourceIdentifier | Content Indentifier URI of the business document or other associated files. | MANDATORY | 1..1 | Example: cid:Biitrd081\_ExpressionOfInterestRequest.xml |
| ------| Description | The value contains the description of the documents referred to. | OPTIONAL | 0..1 | Examples: Call for Tender business document, Procurement project document |
| ------| LanguageCode | Language of Item in ISO 639-1 | OPTIONAL | 0..1 | Example: EN |
| --| BusinessScope | Elements used to identify the ProcessID and DocumentID. The values of Process ID and Document ID are necessary in the SML/SMP discovery Process to retrieve the relevant service metadata. | MANDATORY | 1..1 |  |
| ----| Scope | Repeat twice - once for DocumentID once for ProcessID. | MANDATORY | 2..\* |  |
| ------| Type | Qualifier of how to understand the InstanceIdentifier element. | MANDATORY | 1..1 | Applicable Codes: - DOCUMENTID - PROCESSID |
| ------| InstanceIdentifier | The ProcessID (profile ID) or DocumentID corresponding to PEPPOL SMP for which the enveloped payload is intended to be used for.  For senders - this value can be used to retrieve the correct set of PEPPOL service metadata.  For receivers - this value can be used to verify that the receiving PEPPOL Participant has published support for this DocumentID or ProcessID. | MANDATORY | 1..1 | Codelist [see TAB Scope colums ProcessID|DocumentID] |
| ------| Identifier | An unique identification key to identify the procurement project that this document refers to. | OPTIONAL | 0..1 | Example: 6346792 |
| ----| ScopeInformation | Abstract element. Will be replaced by BusinessService and/or CorrelationInformation | OPTIONAL |  |  |
| ------| BusinessService | Initiator's description of the service to be carried out on the SBD by receiver. | OPTIONAL | 0..1 |  |
| --------| ServiceTransaction | BusinessServiceTransaction is a specific instruction to be executed on the received Standard Business Document. | OPTIONAL | 0..1 |  |
| ----------| IsNonRepudiationRequired | Non repudiation of origin and content means that the originator must digitally sign the business data and the recipient must store the business data (including the digital signature) in its original form for the duration mutually agreed to in a trading partner agreement. | REQUIRED | 0..1 | Applicable values: - true - false |
| ----------| IsAuthenticationRequired | If IsNonRepudiationRequired is true, this tag is superfluous. Otherwise, the tag indicates whether the identity of the sending role is verified. | REQUIRED | 0..1 | Applicable values: - true - false |
| ----------| IsNonRepudiationOfReceiptRequired | Indicates that both partners agree to mutually verify receipt of requested business data and that the receipt must be non reputable. | REQUIRED | 0..1 | Applicable values: - true - false |
| ----------| IsIntelligibleCheckRequired | Both partners agree that a responding partner role must check (e.g. via use of a document digest) that received data is not garbled (unreadable, unintelligible) and has integrity (i.e. has not been altered) before acknowledgment of proper receipt is returned to the requesting partner. | REQUIRED | 0..1 | Applicable values: - true - false |
| ----------| IsApplicationErrorResponseRequested | Both partners agree that a responding partner’s receiving business application must check for application level errors; and if any are detected, must respond with an Error Response Acknowledgment noting the errors detected. | REQUIRED | 0..1 | Applicable values: - true - false |
| --------| CorrelationInformation | Co-relates requesting document information with the responding document information. This element substitutes the element ‘ScopeInformation’ when used. | OPTIONAL | 0..1 |  |
| ----------| RequestingDocumentInstanceIdentifier | Identifier of requesting SBDH and SBD instance. This is a GUID. | REQUIRED | 0..1 | Example: 5469cc5c-f15d-4631-b47d-a348f646ab8a (Message ID) |

# SML SMP Specifications

## Description

The following table contains the SMP parameters for eTendering use cases. For the ProcessID and CustomizationID see chapter 5.4

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Nr** | **Use Cases** | **Nr** | **Transactions** | **Standard** | **TypeVersion** | **//DocumentIdentification/Type** | **DocumentID** |
| 3 | Access documents | 3.1 | EO requests CA for the procurement project documents | UBL | 2.2 | TenderStatusRequest | urn:oasis:names:specification:ubl:schema:xsd:TenderStatusRequest-2::TenderStatusRequest##urn:www.cenbii.eu:transaction:biitrdm097:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t003:ver1.0 |
|  |  | 3.2 | CA sends all procurement project documents to EO | UBL | 2.2 | CallForTenders | urn:oasis:names:specification:ubl:schema:xsd:CallForTenders-2::CallForTenders##urn:www.cenbii.eu:transaction:biitrdm083:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t004:ver1.0 |
| 4 | SubscribeInterest | 4.1 | EO shows his interest in the procurement project | UBL | 2.2 | ExpressionOfInterestRequest | urn:oasis:names:specification:ubl:schema:xsd:ExpressionOfInterestRequest-2::ExpressionOfInterestRequest##urn:www.cenbii.eu:transaction:biitrdm081:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t001:ver1.0 |
|  | SubscribeInterestConfirmation | 4.2 | CA SubscibeInterestConfirmations interest EO and sends acknowledgement to EO including all documents | UBL | 2.2 | ExpressionOfInterestResponse | urn:oasis:names:specification:ubl:schema:xsd:ExpressionOfInterestResponse-2::ExpressionOfInterestResponse##urn:www.cenbii.eu:transaction:biitrdm082:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t002:ver1.0 |
| 5 | Receive updates | 5.1 | CA sends updates procurement project including documents to all interested EO's | UBL | 2.2 | CallForTenders | urn:oasis:names:specification:ubl:schema:xsd:CallForTenders-2::CallForTenders##urn:www.cenbii.eu:transaction:biitrdm083:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t004:ver1.0 |
| 11a | Submit tender | 11a.1 | EO sends his tender for the procurement project to CA | UBL | 2.2 | Tender | urn:oasis:names:specification:ubl:schema:xsd:Tender-2::Tender##urn:www.cenbii.eu:transaction:biitrdm090:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t005:ver1.0 |
|  |  | 11a.2 | CA receives the tender and sends acknowledgement to EO | UBL | 2.2 | TenderReceipt | urn:oasis:names:specification:ubl:schema:xsd:TenderReceipt-2::TenderReceipt##urn:www.cenbii.eu:transaction:biitrdm045:ver3.0:extended:urn:fdc:peppol.eu:2017:pracc:t006:ver1.0 |

1. https://portal.etsi.org/webapp/workprogram/Report\_WorkItem.asp?WKI\_ID=42455 [↑](#footnote-ref-1)
2. For more information on encrypting document see BIS Cryptographic Specifications [↑](#footnote-ref-2)
3. http://www.google.nl/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjMlOeD19zZAhVBKuwKHeQmCFsQFggnMAA&url=http%3A%2F%2Fwww.etsi.org%2Fdeliver%2Fetsi\_ts%2F102600\_102699%2F10264002%2F02.01.01\_60%2Fts\_10264002v020101p.pdf&usg=AOvVaw1iP\_Do1B2KnCKunw6w7Nxk [↑](#footnote-ref-3)