

**Business Interoperability Specification**

**OpenPEPPOL AISBL**

**Pre Award Coordinating Community**

**ICT - Models**

BIS eDelivery guide

for pre-award

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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 description, the use of a container to package documents and signature requirements.

All requirements in this document have been designed, tested and approved in the European Large Scale Pilot e-SENS and as such part of the European library 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

# References

|  |  |
| --- | --- |
| [PEPPOL] | <http://www.peppol.org/> |
| [CEN\_BII3] | <https://standards.cencenelec.eu/dyn/www/f?p=205:32:0::::FSP_ORG_ID,FSP_LANG_ID:2073699,25&cs=1764296F93587711762A3AB227353671A> |
| [eSENS] | <http://wiki.ds.unipi.gr/display/ESENSPILOTS/D5.6-1+-+5.1.1+-+eTendering> |
| [ETSI REM] | <https://www.etsi.org/deliver/etsi_ts/102600_102699/10264002/02.01.01_60/ts_10264002v020101p.pdf> |
| [PEPPOL Pre-Award Specs] | <https://docs.peppol.eu/pracc/> |
| [PEPPOL\_CodeList] | <https://docs.peppol.eu/edelivery/codelists/> |
| [PEPPOL\_eDelivery] | <https://peppol.org/library/> |
| [UBL] | <http://docs.oasis-open.org/ubl/UBL-2.2.html> |

# 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 |
| 1.1 | 25-06-2018 | Kornelis Drijfhout | PIANOo | Addressed review comments from CMB, deleting Specifications for ASiC, adding Cryptographic Specifications for REM-evidence. |
| 1.2 | 13-02-2019 | Jerry Dimitriou | OpenPEPPOL OO | Alignment of the guide with the latest peppol specifications |
| 1.3 | 08-07-2022 | Felicia Tsakonas, Ansgar Mondorf | adesso SE, UKL | Update guide for newest profiles and update links |
| 1.3 | 24-02-2023 | Ansgar Mondorf | Mondorf IT | Final Editing, Udating Links and References |
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# Identifier Policies

## Introduction

PEPPOL has defined a Policy for Using Identifiers [PEPPOL\_eDelivery] 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 eTendering pilot adopts and extends the PEPPOL Policy in the following ways:

## Party Identification used in business (UBL) documents

Party identification relates to business entities and is only used in business 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="9930">DE122268496</cbc:EndpointID>  ...  <cac:PartyIdentification>           <cbc:ID schemeID="0204">991-1234512345-06</cbc:ID>  </cac:PartyIdentification> |

Further information about the Peppol Policy for use of identifiers can be found at [PEPPOL\_eDelivery]

## UBL Version 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>2.2</cbc:UBLVersionID> |

## Profile ID, Customization ID and DocumentID

The PEPPOL Customization ID identifies the specification of content and rules that apply to the transaction. It is connected to a ProcessID which points to a PEPPOL BIS that is illustrating the use of the transaction. For each CustomizationID, a corresponding DocumentID is defined that points to the underlying UBL syntax message.

* The DocumentID specifies the Peppol Document Type Identifier value
* The ProcessID specifies the Peppol Process Identifier value

The values of Process ID and Document Type ID are necessary in the SML/SMP discovery process to retrieve the relevant service metadata. Both values should be mapped to the element located at: StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/InstanceIdentifier

Which Customization ID should be used, is based on which transaction is sent. The customization ID is declared in the business document together with its Profile ID.

The table below shows an overview of the values to be used for the ProcessID, CustomizationID and DocumentID per transaction. The DocumentIDs are published as OpenPeppol eDEC Code Lists [PEPPOL\_CodeList].

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Trns ID** | **Transaction name** | **Short description** | **ProcessID** | **CustomizationID** | **DocumentID** |
| T001 | ExpressionOfInterestRequest | EO shows his interest in the procurement project | urn:fdc:peppol.eu:prac:bis:p001:1.2 | urn:fdc:peppol.eu:prac:trns:t001:1.2 | urn:oasis:names:specification:ubl:schema:xsd:ExpressionOfInterestRequest-2::ExpressionOfInterestRequest##urn:fdc:peppol.eu:prac:trns:t001:1.1::2.2 |
| T002 | ExpressionOfInterestResponse | CA responds to the subscribe to procedure | urn:fdc:peppol.eu:prac:bis:p001:1.2 | urn:fdc:peppol.eu:prac:trns:t002:1.2 | urn:oasis:names:specification:ubl:schema:xsd:ExpressionOfInterestResponse-2::ExpressionOfInterestResponse##urn:fdc:peppol.eu:prac:trns:t002:1.1::2.2 |
| T021 | UnsubscribeFromProcedureRequest | EO wants to unsubscribe from the procurement project | urn:fdc:peppol.eu:prac:bis:p001:1.2 | urn:fdc:peppol.eu:prac:trns:t021:1.2 | urn:oasis:names:specification:ubl:schema:xsd: UnsubscribeFromProcedureRequest-2:: UnsubscribeFromProcedureRequest## urn:fdc:peppol.eu:prac:trns:t021:1.2:2.2 |
| T022 | UnsubscribeFromPreocudreResponse | CA sends unsubscription acknowledgement to EO | urn:fdc:peppol.eu:prac:bis:p001:1.2 | urn:fdc:peppol.eu:prac:trns:t022:1.2 | urn:oasis:names:specification:ubl:schema:xsd: UnsubscribeFromProcedureResponse-2:: UnsubscribeFromProcedureResponse ##urn:fdc:peppol.eu:prac:trns:t022:1.2::2.2 |
| T003 | TenderStatusRequest | EO requests CA for the procurement project documents | urn:fdc:peppol.eu:prac:bis:p002:1.1 | urn:fdc:peppol.eu:prac:trns:t003:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TenderStatusRequest-2::TenderStatusRequest##urn:fdc:peppol.eu:prac:trns:t003:1.1::2.2 |
| T004 | CallForTenders | CA sends all procurement project documents to EO | urn:fdc:peppol.eu:prac:bis:p002:1.1 | urn:fdc:peppol.eu:prac:trns:t004:1.1 | urn:oasis:names:specification:ubl:schema:xsd:CallForTenders-2::CallForTenders##urn:fdc:peppol.eu:prac:trns:t004:1.1::2.2 |
| T005 | Tender | EO sends his tender for the procurement project to CA | urn:fdc:peppol.eu:prac:bis:p003:1.1 | urn:fdc:peppol.eu:prac:trns:t005:1.1 | urn:oasis:names:specification:ubl:schema:xsd:Tender-2::Tender##urn:fdc:peppol.eu:prac:trns:t005:1.1::2.2 |
| T006 | TenderReceipt | CA receives the tender and sends acknowledgement to EO | urn:fdc:peppol.eu:prac:bis:p003:1.1 | urn:fdc:peppol.eu:prac:trns:t006:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TenderReceipt-2::TenderReceipt##urn:fdc:peppol.eu:prac:trns:t006:1.1::2.2 |
| T007 | Tendering Questions | The EO sends questions for the Call for Tender to the CA. | urn:fdc:peppol.eu:prac:bis:p004:1.1 | urn:fdc:peppol.eu:prac:trns:t007:1.1 | urn:oasis:names:specification:ubl:schema:xsd:Enquiry-2::Enquiry##urn:fdc:peppol.eu:prac:trns:t007:1.1::2.2 |
| T008 | Tender Answers | The CA sends answers to all subscribed EOs. | urn:fdc:peppol.eu:prac:bis:p004:1.1 | urn:fdc:peppol.eu:prac:trns:t008:1.1 | urn:oasis:names:specification:ubl:schema:xsd:EnquiryResponse-2::EnquiryResponse##urn:fdc:peppol.eu:prac:trns:t008:1.1::2.2 |
| T009 | Tender Clarification Request | The CA sends a tender clarification request to the EO. | urn:fdc:peppol.eu:prac:bis:p005:1.1 | urn:fdc:peppol.eu:prac:trns:t009:1.1 | urn:oasis:names:specification:ubl:schema:xsd:Enquiry-2::Enquiry##urn:fdc:peppol.eu:prac:trns:t009:1.1::2.2 |
| T010 | Tender Clarification | The EO sends a tender clarification to the CA. | urn:fdc:peppol.eu:prac:bis:p005:1.1 | urn:fdc:peppol.eu:prac:trns:t010:1.1 | urn:oasis:names:specification:ubl:schema:xsd:EnquiryResponse-2::EnquiryResponse##urn:fdc:peppol.eu:prac:trns:t010:1.1::2.2 |
| T011 | Search Notice Request | The requester sends a Search Notice Request to the Data Provider. | urn:fdc:peppol.eu:prac:bis:p006:1.1 | urn:fdc:peppol.eu:prac:trns:t011:1.1 | urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0::QueryRequest##urn:fdc:peppol.eu:prac:trns:t011:1.1::4.0 |
| T012 | Search Notice Response | The Data Provider sends a Search Notice Response to the Requester. | urn:fdc:peppol.eu:prac:bis:p006:1.1 | urn:fdc:peppol.eu:prac:trns:t012:1.1 | urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0::QueryResponse##urn:fdc:peppol.eu:prac:trns:t012:1.1::4.0 |
| T013 | Tender Withdrawal | The EO sends a Tender Withdrawal to the CA. | urn:fdc:peppol.eu:prac:bis:p007:1.1 | urn:fdc:peppol.eu:prac:trns:t013:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TenderWithdrawal-2::TenderWithdrawal##urn:fdc:peppol.eu:prac:trns:t013:1.1::2.2 |
| T014 | Tender Withdrawal Reception Notification | The CA sends a Tender Withdrawal Reception Notification to the EO. | urn:fdc:peppol.eu:prac:bis:p007:1.1 | urn:fdc:peppol.eu:prac:trns:t014:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TenderReceipt-2::TenderReceipt##urn:fdc:peppol.eu:prac:trns:t014:1.1::2.2 |
| T015 | Publish Notice | The requester sends a Publish Notice Request to the publisher. | urn:fdc:peppol.eu:prac:bis:p008:1.1 | urn:fdc:peppol.eu:prac:trns:t015:1.1 | urn:oasis:names:tc:ebxml-regrep:xsd:lcm:4.0::SubmitObjectsRequest##urn:fdc:peppol.eu:prac:trns:t015:1.1::4.0 |
| T016 | Notice Publication Response | The publisher sends a Notice Publication Response to the requester. | urn:fdc:peppol.eu:prac:bis:p008:1.1 | urn:fdc:peppol.eu:prac:trns:t016:1.1 | urn:oasis:names:specification:ubl:schema:xsd:ApplicationResponse-2::ApplicationResponse##urn:fdc:peppol.eu:prac:trns:t016:1.1::2.2 |
| T017 | Notify Awarding | The CA sends an awarding notification to all EOs that have tendered. | urn:fdc:peppol.eu:prac:bis:p009:1.1 | urn:fdc:peppol.eu:prac:trns:t017:1.1 | urn:oasis:names:specification:ubl:schema:xsd:AwardedNotification-2::AwardedNotification##urn:fdc:peppol.eu:prac:trns:t017:1.4::2.2 |
| T018 | Tendering Message Response | The receiver of a business document sends a Tendering Message Response to the sender of the business document. | urn:fdc:peppol.eu:prac:bis:p010:1.0 | urn:fdc:peppol.eu:prac:trns:t018:1.1 | urn:oasis:names:specification:ubl:schema:xsd:ApplicationResponse-2::ApplicationResponse##urn:fdc:peppol.eu:prac:trns:t018:1.1 |
| T019 | Qualification | EO sends his qualification documents for the procurement project to CA the sender of the business document. | urn:fdc:peppol.eu:prac:bis:p011:1.0 | urn:fdc:peppol.eu:prac:trns:t019:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TendererQualification-2::TendererQualification##urn:fdc:peppol.eu:prac:trns:t019:1.1 |
| T020 | Qualification Reception Confirmation | CA sends acknowledgement to EO about the reception of the qualification. | urn:fdc:peppol.eu:prac:bis:p011:1.0 | urn:fdc:peppol.eu:prac:trns:t020:1.1 | urn:oasis:names:specification:ubl:schema:xsd:TenderReceipt-2::TenderReceipt## urn:fdc:peppol.eu:prac:trns:t020:1.1 |

**Note for implementers**: Please note that the Process ID and Document ID in the document instance MUST correspond to the SMP process identifier according to the Peppol eDelivery codelists [PEPPOL\_CodeList].

## Identifier Scheme Values

Applies to: all participant identifiers in all components

The values for the initial PEPPOL Issuing Agency Code list were taken from the NESUBL PartyID code list[[1]](#footnote-1) but this has been extended to cover use by all PEPPOL use cases and includes other known Issuing Agencies (from e.g. ISO 6523[[2]](#footnote-2) ).

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

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)

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

**Note:** 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.

**Note:** Further information about the Peppol Policy for use of identifiers can be found at [PEPPOL\_eDelivery]

## 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, i.e. 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” both PartyIdentification ID and Endpoint ID identifiers in use by itself throughout the project. This reception of notice information is covered by the Profile P006 - Search Notices.
* 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 . The XSD of the REM Evidence can be found at the following link:

<http://wiki.ds.unipi.gr/download/attachments/31424684/TS02640_v2.xsd?version=2&modificationDate=1479922272000&api=v2>

The REM Evidence must be created by the receiving access point when receiving the transactions T005 Tender and T013 Tender Withdrawal. It must then be forwarded to the receiving eTendering system. On the business level, the receiving eTendering system must return the REM Evidence to the sender of T005 and T013 as part of the transaction T006 TenderReceipt and T014 Tender Withdrawal Reception Notification to confirm the receiption of tenders or tender withdrawals.

## 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 PEPPOL Business Interoperability Specifications for P003 – Tender Submission. P003 or P007 Tender Withdrawal or P011 - Qualification | Example: <https://docs.peppol.eu/pracc/profiles/p003/index.html>  <https://docs.peppol.eu/pracc/profiles/p007/index.html> |
| **EvidenceIssuerDetails** | **M** | 1 | The entity name 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 seconds, 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:ExpressionOfInterestRequest-2::ExpressionOfInterestRequest##urn:fdc:peppol.eu:prac:trns:t001:1.1::2.2 |
| uaMessageIdentifier | O | 1 | This field contains an identifier as computed by the user's eTendering system. A 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 its 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 ignored by the receiver. |  |
| **Signature** | **M** | 0..1 | This element in **XAdES-B** format is used to sign the Rem Evidence with the certificate of 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) |

## REM-MD Evidence signing

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Signing values** | | | | |
| Protocol | Algorithm | KeySize | HASH | reference |
| XADES B-B | DS-RSA; PSS (PKCS#1v2.1) | 2048 | SHA-256 | RFC3447, PKCS1, ISO9796-2] |

|  |  |
| --- | --- |
| **Certificate for signing** | |
| type | X.509 V3 |
| CN / Identity holding private key | C3, Access Point for C4, actor in charge of C3 |
| Sign / Seal | Sealing, authenticity and integrity from signature creation time on |
| DATA / Payload | Includes Hash of received data (ASiC) container and receiving time |
| Key specs | RSA-2048 |
| Key usage | Signature |
| extensions | Subject Key Identifier (CMS type 2) |
| HASH algorithm | SHA-256 |
| PKI | Signed by the Pre-Award AP Provider certificate (C3) on behalf of C4 |
| Qualified | NO |
| Verifiable / can be validated | YES (PTN PKI) |

# 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.

The PEPPOL Pre-award follows the PEPPOL Business Message Envelope v 1.2, makes use of the non-xml payloads section of the specification. Specifically, it follows section 2.3.1 of the specification, using **“application/vnd.etsi.asic-e+zip”** for the mimeType attribute of the **<BinaryContent>** tag.

## Description

The table below describes each of the elements of the SBDH, as they are used in the pre-award domain

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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: 9930:DE122268496 |
| ----| 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: 9946:500820007 |
| ----| 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 Identifier 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 Table in section 4.4 Profile ID, and Customization ID and DocumentID, colums ProcessID|DocumentID]  Example ProcessID: urn:fdc:peppol.eu:prac:bis:p001:1.2  Example DocumentID: urn:oasis:names:specification:ubl:schema:xsd:ExpressionOfInterestRequest-2::ExpressionOfInterestRequest##urn:fdc:peppol.eu:prac:trns:t001:1.1::2.2 |
| ------| Identifier | A 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) |

**Note:** Further information about the PEPPOL SBDH Envelope Specification can be found at [PEPPOL\_eDelivery]

1. <http://www.nesubl.eu/download/18.6dae77a0113497f158680002577/NES+Code+Lists+and+Identification+Schemes+-+Version+2.pdf> [↑](#footnote-ref-1)
2. <https://www.iso.org/standard/25773.html> [↑](#footnote-ref-2)
3. <https://www.etsi.org/deliver/etsi_ts/102600_102699/10264002/02.01.01_60/ts_10264002v020101p.pdf> [↑](#footnote-ref-3)