

**Specification**

**OpenPeppol AISBL**

**Peppol Transport Infrastructure**

**ICT - Models**

**Peppol Business Message Envelope (SBDH)**

**Version: 2.0.2**

**Status: In use**

**Statement of originality**

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# Version History

|  |  |  |
| --- | --- | --- |
| Version | Date | Change log |
| 1.0.0 | 2014-01-15 | Initial version |
| 1.1 | 2018-08-31 | Added the possibility to specify document type identifier scheme and process identifier scheme  Added the possibility to specify additional attributes |
| 1.1.1 | 2018-09-28 | Fixed error in chapter 2.5 in the example of an additional attribute without a value  Added note on attribute case sensitivity in chapter 2.5 |
| 1.2 | 2019-02-01 | Added section for non-XML payloads |
| 1.2.1 | 2020-03-11 | Added chapter 2.6 on the Internet Media Type  Remove the references to the Peppol Policy for use of Identifiers 3.x  Updated to the new branding |
| 2.0 | 2023-03-13 | Added chapter 2.5 on country code  Removed the reference to AS2 |
| 2.0.1 | 2023-08-17 | Fixed lower bound cardinality of “Scope” element in chapter 2.9 |
| 2.0.2 | 2025-07-22 | Added chapter 2.6 on MLS Customisation Options  Added reserved additional attributes MLS\_TYPE and MLS\_TO |

# Introduction

The Peppol Message Envelope is a customization of the UN/CEFACT Standard Business Document Header (SBDH) [SBDH]. The customization represents a true subset of the standard XML Schemas and any instance conformant to this specification is also conformant to the SBDH.

The Peppol Message Envelope makes it possible for Access points to:

* Route messages without having to access to the business message/data
* Always use the same way of identifying sender/receiver, document type and process
* Overcome issues with namespace or versioning of the payload
* Provide additional attributes that help processing the payload

The Message Envelope can also carry some of the infrastructure elements when using protocols like AS4. The creation of the Message Envelope is RECOMMENDED to be done already in the system issuing the business document but it may also be created by a service provider who is preparing the document for transportation to the receiver’s Access Point. This specification does not recommend any particular setup with regard to this when the Message Envelope is not created in the issuing system.

## Terminology

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

## Normative references

[RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”,  
<https://www.ietf.org/rfc/rfc2119.txt>

[MLS] “Peppol Message Level Status”  
<https://docs.peppol.eu/edelivery/>

[Peppol\_Policy] “Peppol Policy for use of Identifiers”,  
<https://docs.peppol.eu/edelivery/>

[SBDH] “Standard Business Document Header Technical Specification”,  
<https://www.gs1.org/standards/edi-xml-gdsn-gs1-uncefact-xml-profiles/sbdh-technical-specifications/1-3>

[SPIS] “Peppol Service Provider Identification Scheme”,  
https://docs.peppol.eu/edelivery/

## When to use the envelope

Unless other policies are decided for the Peppol infrastructure, the following principals describe when the envelope is to be applied.

* Business Message Envelope MUST be applied for all messages exchanged with AS4

# SBDH Usage

## Party identifiers

The required Receiver party identifier in the Message Envelope header is the one that corresponds to a Peppol Participant registered in the SML/SMP. Also, the Sender party identifier is required. The structure of the identifier MUST follow the “Peppol Policy for use of Identifiers” [Peppol\_Policy].

In cases where the sender is not registered in SML/SMP the identifier of the sender MUST be used as if the sender would be registered.

Non-normative example:

<Sender>

<Identifier Authority="iso6523-actorid-upis">0088:7315458756324</Identifier>

</Sender>

<Receiver>

<Identifier Authority="iso6523-actorid-upis">0088:4562458856624</Identifier>

</Receiver>

## XML considerations

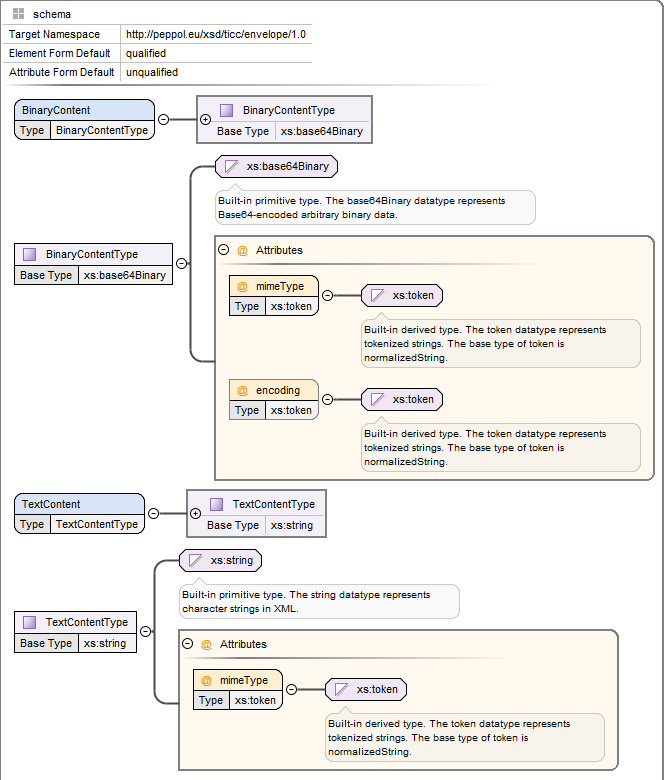
Since the envelope and included business document becomes one single XML instance, both the envelope and the business document MUST have the same character encoding. The included business document MUST be well-formed. The Message Envelope MUST NOT contain another Message Envelope.

## Non-XML Payloads

Several processes that are supported in Peppol require the transportation of binary data and non-XML text as payload. In order for Peppol to support the transmission of non-XML payloads, an XML wrapper has been defined that MUST be used for wrapping these payloads.

The XML wrapper defined in this document MUST NOT be used to wrap another XML wrapper neither as binary nor as text payload.

The following picture depicts the XML schema of the XML wrapper (see chapter 3.2 for the full XML schema):



### Binary Payloads

In order to support the transmission of binary payloads they should be transformed and packaged as follows:

1. The binary payload must be Base64-encoded
2. The encoded payload MUST be included inside the XML element BinaryContent. The XML namespace URI for this element MUST be http://peppol.eu/xsd/ticc/envelope/1.0.
3. The attribute mimeType MUST be set to the respective payload MIME type.
4. For text-based payloads, the optional encoding attribute MUST be used if the source encoding is different than the encoding of the surrounding XML document. At least the “UTF-8” encoding MUST be supported.

Non-normative example:

<?xml version="1.0" encoding="iso-8859-1"?>  
<StandardBusinessDocument xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">  
 <StandardBusinessDocumentHeader>  
 ...  
 </StandardBusinessDocumentHeader>  
 <BinaryContent xmlns="http://peppol.eu/xsd/ticc/envelope/1.0"   
 mimeType="application/vnd.etsi.asic-e+zip"  
 encoding="UTF-8">  
 ABCD45678922 ...  
 </BinaryContent>  
</StandardBusinessDocument>

### Non-XML Text Payloads

For text data, there is no need of a container, as it can be placed directly as payload inside a TextContent XML element. The XML namespace URI for this element must be http://peppol.eu/xsd/ticc/envelope/1.0. The attribute mimeType MUST be set to the respective payload MIME type.

Note:

* If the text payload contains XML special characters (e.g. ‘<’ or ‘>’), they MUST be escaped using XML encoding or alternatively the data needs to be wrapped inside a CDATA element so the XML remains well formed.
* If a text payload is embedded inside the TextContent element, it MUST use the same character encoding as the surrounding XML, otherwise the BinaryContent data element SHOULD be used.

Non-normative example:

<?xml version="1.0" encoding="iso-8859-1"?>  
<StandardBusinessDocument xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">  
 <StandardBusinessDocumentHeader>  
 ...  
 </StandardBusinessDocumentHeader>  
 <TextContent xmlns="http://peppol.eu/xsd/ticc/envelope/1.0"

mimeType="Application/EDIFACT">  
UNB+UNOA:2+9930711378399:14+7798032711116:14+160927:2252+EW861380947'UNH+186453437+CONTRL:D:96A:UN:EAN002'UCI+F6GVY+7658032710006:14+9930711378111:14+8'UCM+3HHL0+ORDERS:D:96A:UN:EAN008+7'UNT+4+186453437'UNZ+1+EW861380947'  
 </TextContent>  
</StandardBusinessDocument>

## Peppol Process ID and Document Type ID

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

The respective identifier schemes are to be located in the following element (new in v1.1):

StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Identifier

For backwards compatibility reasons (from version 1.1 to 1.0) – if the identifier schemes are missing – the default process scheme identifier cenbii-procid-ubl and the default document type identifier scheme busdox-docid-qns MUST be used.

The qualifier located at /StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Type is used to distinguish the meaning of the values by using codes: DOCUMENTID (for a document type identifier) and PROCESSID (for process identifiers).

Non-normative example without identifier schemes:

<Scope>

<Type>DOCUMENTID</Type>

<InstanceIdentifier>urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:www.cenbii.eu:transaction:biitrns010:ver2.0:extended:urn:www.peppol.eu:bis:peppol4a:ver2.0::2.1</InstanceIdentifier>

</Scope>

<Scope>

<Type>PROCESSID</Type>

<InstanceIdentifier>urn:www.cenbii.eu:profile:bii04:ver1.0</InstanceIdentifier>

</Scope>

Non-normative example including identifier schemes (possible since v1.1 of this specification):

<Scope>

<Type>DOCUMENTID</Type>

<InstanceIdentifier>urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:www.cenbii.eu:transaction:biitrns010:ver2.0:extended:urn:www.peppol.eu:bis:peppol4a:ver2.0::2.1</InstanceIdentifier>

<Identifier>busdox-docid-qns</Identifier>

</Scope>

<Scope>

<Type>PROCESSID</Type>

<InstanceIdentifier>urn:www.cenbii.eu:profile:bii04:ver1.0</InstanceIdentifier>

<Identifier>cenbii-procid-ubl</Identifier>

</Scope>

## Country codes of the End Users

To satisfy the reporting requirements for traffic statistics, the country code of the business level sender MUST be provided. The business-level sender is the C1 node in the 4-corner model. The information provided in the envelope complements the identifier information on the messaging level.

The country code MUST be provided in every instance of the envelope. The value of the country code MUST be provided according to ISO-3166-1 in the Alpha-2 notation (e.g. “BE” representing Belgium). Other notations MUST NOT be used. The value MUST follow this case-sensitive regular expression:

[A-Z0-9][A-Z0-9]

Kosovo is a special case: It can be represented using either the code XK[[1]](#footnote-1) or the code 1A[[2]](#footnote-2).

The country code of C1 MUST be known by the creator of the envelope.

The qualifier located at /StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Type is used to distinguish the meaning of values by using codes: COUNTRY\_C1 MUST be used for C1 country code. The country code value itself is mapped to the element located at:

StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/InstanceIdentifier

Non-normative example for an exchange of a business document from a business level sender in Belgium:

<Scope>

<Type>COUNTRY\_C1</Type>

<InstanceIdentifier>BE</InstanceIdentifier>

</Scope>

## MLS Customisation Options

This section describes customisation options for the Peppol Message Level Status (MLS).

### Specific MLS Receiver

By default, an MLS message is addressed to the SPIS Main ID (see [SPIS]) derived from the Peppol Seat ID of the business document sender. To re-route an MLS to a different receiver, the sender of a business document MAY provide an alternate receiver in the envelope. Note the limitations imposed by the MLS specification on the selection of the MLS Receiver.

The qualifier located at /StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Type is used to distinguish the meaning of values by using codes: MLS\_TO MUST be used to indicate the receiving participant identifier for the MLS.

The participant identifier value MUST be mapped to the element located at:

StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/InstanceIdentifier

The participant identifier scheme MUST be mapped to the element located at:

StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Identifier

Non-normative example for an exchange of a business document that wants to receive the MLS using the participant identifier iso6523-actorid-upis::0242:987654-TEST:

<Scope>

<Type>MLS\_TO</Type>

<InstanceIdentifier>0242:987654-TEST</InstanceIdentifier>

<Identifier>iso6523-actorid-upis</Identifier>

</Scope>

### Specific MLS Usage

By default, the MLS Usage is specified in the Peppol Policy for use of the Peppol Network. To explicitly request only specific types of MLS messages, the sender of a business document MAY request an explicit usage type.

The qualifier located at /StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Type is used to distinguish the meaning of values by using codes: MLS\_TYPE MUST be used to indicate the MLS usage type.

The MLS usage type itself MUST be mapped to the element located at:

StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/InstanceIdentifier

Non-normative example for an exchange of a business document that wants to receive only negative MLS messages:

<Scope>

<Type>MLS\_TYPE</Type>

<InstanceIdentifier>FAILURE\_ONLY</InstanceIdentifier>

</Scope>

## Additional attributes

Additional attributes MAY be provided that can be used to support the processing of the payload. These additional attributes are represented as key-value-pairs.

Each additional attribute is represented as a /StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope element.

The attribute key must be contained in the child element Type. All attribute keys listed in chapter 2.7.1 are reserved and cannot be used as an additional attribute key. The attribute key MUST be unique within an SBDH. The attribute key MUST be handled case sensitive.

The attribute value must be contained in the child element InstanceIdentifier. The attribute value MAY be omitted.

Non-normative example with two additional attributes:

<BusinessScope>

<!-- other mandatory values -->

<Scope>

<Type>TECHNICAL\_VALIDATION\_URL</Type>

<InstanceIdentifier>http://peppol.example.org/as4</InstanceIdentifier>

</Scope>

<Scope>

<Type>TECHNICAL\_VALIDATION\_REQUIRED</Type>

<InstanceIdentifier>true</InstanceIdentifier>

</Scope>

</BusinessScope>

Non-normative example with one additional attribute that has no value:

<BusinessScope>

<!-- other mandatory values -->

<Scope>

<Type>IndicatorAttribute</Type>

<InstanceIdentifier />

</Scope>

</BusinessScope>

### Reserved attributes

The following additional attribute keys are reserved for internal use in the Peppol network and MUST NOT be used for other purposes than the intended ones.

|  |  |
| --- | --- |
| Attribute key | Description |
| COUNTRY\_C1 | Country code of original sender of the document (C1) (see chapter 2.5). Reserved since v2.0 of this specification. |
| COUNTRY\_C4 | Reserved for potential future use. |
| DOCUMENTID | Specifies the Peppol Document Type Identifier value (see chapter 2.3) |
| MLS\_TO | Specific MLS receiver. Reserved since v2.0.2 of this specification. |
| MLS\_TYPE | Specific MLS usage. Reserved since v2.0.2 of this specification. |
| PROCESSID | Specifies the Peppol Process Identifier value (see chapter 2.3) |
| TECHNICAL\_VALIDATION\_URL | Reserved for potential future use. |
| TECHNICAL\_VALIDATION\_REQUIRED | Reserved for potential future use. |

## Internet Media Type

The MIME type or Content-Type for Peppol Message Envelope documents MUST be either application/xml or text/xml (they can be used interchangeably[[3]](#footnote-3)).

## Message Envelope Schema

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Element/Attribute** | | | | | | | | | | | | **Annotation** |
|  | | | | | | | | | | | | |
| **StandardBusinessDocument** | | | | | | | | | | | **Type** StandardBusinessDocument | |
|  | xs:sequence | | | | | | | | | | **Occurrence** 1 **..** 1 | |
|  | | **StandardBusinessDocumentHeader** | | | | | | | | | **Occurrence** 1 **..** 1  **Type** StandardBusinessDocumentHeader | |
|  | | | xs:sequence | | | | | | | | **Occurrence** 1 **..** 1 | |
|  | | | | **HeaderVersion** | | | | | | | **Occurrence** 1 **..** 1  **Type** xs:string  **Fixed** 1.0 | |
|  | | | |  | | | | | | | **Description** **Always value 1.0** | |
|  | | | | **Sender** | | | | | | | **Occurrence** 1 **..** 1  **Type** Partner | |
|  | | | | | xs:sequence | | | | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | **Identifier** | | | | | **Occurrence** 1 **..** 1  **Type** PartnerIdentification | |
|  | | | | | | |  | | | | **Description** **Use the format XXXX:AAAAAAAA where XXXX is**  **the type of identifer (such as 0088 for GS1 GLN)**  **and AAAAAAAA the actual identifier.** | |
|  | | | | | | | *Authority* | | | | **Type** xs:string  **Use** required | |
|  | | | | | | |  | | | | **Description** **Use fixed value "iso6523-actorid-upis"** | |
|  | | | | **Receiver** | | | | | | | **Occurrence** 1 **..** 1  **Type** Partner | |
|  | | | | | xs:sequence | | | | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | **Identifier** | | | | | **Occurrence** 1 **..** 1  **Type** PartnerIdentification | |
|  | | | | | | |  | | | | **Description** **Use the format XXXX:AAAAAAAA where XXXX is**  **the type of identifer (such as 0088 for GS1 GLN)**  **and AAAAAAAA the actual identifier.** | |
|  | | | | | | | *Authority* | | | | **Type** xs:string  **Use** required | |
|  | | | | | | |  | | | | **Description** **Use fixed value "iso6523-actorid-upis"** | |
|  | | | | **DocumentIdentification** | | | | | | | **Occurrence** 1 **..** 1  **Type** DocumentIdentification | |
|  | | | | | xs:sequence | | | | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | **Standard** | | | | | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | |  | | | | | **Description** **The standard of the enveloped business**  **message, normally described by use of the XML**  **namespace of the business message root**  **element (such as urn:oasis:names:specification:**  **ubl:schema:xsd:Order-2)** | |
|  | | | | | | **TypeVersion** | | | | | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | |  | | | | | **Description** **The version number of the enveloped business**  **message (such as the value "2.1" for OASIS UBL**  **2.1 or "2.0" for OASIS UBL 2.0)** | |
|  | | | | | | **InstanceIdentifier** | | | | | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | |  | | | | | **Description** **An informative unique ID created by the issuer of**  **the envelope. The InstanceIdentifier MUST be**  **unique for each Business Message Envelope**  **being created. This ID is not the same as the ID of**  **the business message (such as the Invoice**  **Number). It is not the same as a transmission**  **Message ID generated by the application sending**  **the message (as defined in AS4).**  **The InstanceIdentifier MUST be globally unique**  **and it is RECOMMENDED to use UUID (such as**  **118e3040-51d2-11e3-8f96-0800200c9a66)** | |
|  | | | | | | **Type** | | | | | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | |  | | | | | **Description** **Message type - mandatory in SBDH. XML local**  **element name of the root-element in the business**  **message.** | |
| **Element/Attribute** | | | | | | | | | | | | **Annotation** |
|  | | | | | | | | | | | | |
|  | | | | | | **CreationDateAndTime** | | | | | **Occurrence** 1 **..** 1  **Type** xs:dateTime | |
|  | | | | | |  | | | | | **Description** **The date and time for when this envelope was**  **created. It is NOT necessarily the same as the**  **issue date of the business document (such as the**  **invoice) being enveloped. It is NOT necessarily**  **the date time for transmission.**  **The format of the value of this MUST include**  **timezone information.**  **Use this format for UTC: 2014-01-17T09:30:00Z**  **(Where the "Z" indicates UTC)**  **Or specify offset from UTC by adding the time**  **difference: 2014-01-17T09:30:00+02:00 (Where**  **+02:00 indicates 2 hours positive offset to UTC)** | |
|  | | | | **BusinessScope** | | | | | | | **Occurrence** 1 **..** 1  **Type** BusinessScope | |
|  | | | | |  | | | | | | **Description** **Elements used to identify the ProcessID and**  **DocumentID.** | |
|  | | | | | xs:sequence | | | | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | **Scope** | | | | | **Occurrence** 3 **..** unbounded  **Type** Scope | |
|  | | | | | | |  | | | | **Description** **Repeat for each mandatory qualifier. See chapters 2.4 and 2.5** | |
|  | | | | | | | xs:sequence | | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | | | ScopeAttributes | | | **Occurrence** 1 **..** 1 | |
|  | | | | | | | | | xs:sequence | | **Occurrence** 1 **..** 1 | |
|  | | | | | | | | | | **Type** | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | | | | | |  | **Description** **Qualifier of how to understand the**  **InstanceIdentifier element. Codes.** | |
|  | | | | | | | | | | **InstanceIdentifier** | **Occurrence** 1 **..** 1  **Type** xs:string | |
|  | | | | | | | | | |  | **Description** **The values matching the**  **type qualified by the ScopeAttributes/**  **Type element.** | |
|  | | | | | | | | | | **Identifier** | **Occurrence** 0 **..** 1  **Type** xs:string | |
|  | | | | | | | | | |  | **Description** **Identification scheme used for the Document type**  **identifier/Process identifier. See chapter 2.4** | |
|  | | **xs:any** | | | | | | | | | **Occurrence** 1 **..** 1 | |
|  | |  | | | | | | | | | **Description** **Business message goes here!** | |

# Appendix

## Example instance document (non-normative)

<?xml version="1.0" encoding="UTF-8"?>  
<StandardBusinessDocument xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">  
 <StandardBusinessDocumentHeader>  
 <HeaderVersion>1.0</HeaderVersion>  
 <Sender>  
 <Identifier Authority="iso6523-actorid-upis">0088:7315458756324</Identifier>  
 </Sender>  
 <Receiver>  
 <Identifier Authority="iso6523-actorid-upis">0088:4562458856624</Identifier>  
 </Receiver>  
 <DocumentIdentification>  
 <Standard>urn:oasis:names:specification:ubl:schema:xsd:Invoice-2</Standard>  
 <TypeVersion>2.1</TypeVersion>  
 <InstanceIdentifier>123123</InstanceIdentifier>  
 <Type>Invoice</Type>  
 <CreationDateAndTime>2019-02-01T15:42:10Z</CreationDateAndTime>  
 </DocumentIdentification>  
 <BusinessScope>  
 <Scope>  
 <Type>DOCUMENTID</Type>  
 <InstanceIdentifier>urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1</InstanceIdentifier>  
 <Identifier>busdox-docid-qns</Identifier>  
 </Scope>  
 <Scope>  
 <Type>PROCESSID</Type>  
 <InstanceIdentifier>urn:fdc:peppol.eu:2017:poacc:billing:01:1.0</InstanceIdentifier>  
 <Identifier>cenbii-procid-ubl</Identifier>  
 </Scope>  
 <Scope>  
 <Type>COUNTRY\_C1</Type>  
 <InstanceIdentifier>BE</InstanceIdentifier>  
 </Scope>  
 </BusinessScope>  
 </StandardBusinessDocumentHeader>  
 <Invoice xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2" xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2" xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2">  
 <!-- reduced instance file -->  
 </Invoice>  
</StandardBusinessDocument>

## Message Envelope Extension XML Schema

The normative version of the Message Envelope Extension XML Schema can be found at <https://docs.peppol.eu/edelivery/>

1. XK is a "user assigned" ISO 3166 code not designated by the standard, but used by the European Commission, Switzerland, the Deutsche Bundesbank and other organisations. [↑](#footnote-ref-1)
2. 1A is used by the Publications Office of the EU and part of the Peppol PoAC code lists [↑](#footnote-ref-2)
3. See <https://tools.ietf.org/html/rfc7303#section-9.2> [↑](#footnote-ref-3)