

# **Specification**



### **OpenPEPPOL AISBL**



**Transport Infrastructure Coordinating Community** 

**ICT - Models** 



openPEPPOL Business Message Envelope (SBDH)



Version: 1.00 Status: In use





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#### 1.1 Introduction

The openPEPPOL Message Envelope is a customization of the UN/CEFACT Standard Business Document Header (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 openPEPPOL 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 and document type
- Overcome issues with namespace or versioning of the payload

The Message Envelope can also carry some of the infrastructure elements when using protocols like AS2. The creation of the Message Envelope may 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.

#### 1.2 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 AS2
- Business Message Envelope MUST NOT be applied for messages exchanged with START unless explicitly required by the relevant BIS-specification.

#### 1.3 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".

Example

#### 1.4 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.





#### 1.5 PEPPOL Process ID and Document ID

The values of Process ID and Document ID are necessary in the SML/SMP discovery process to retrieve the relevant service metadata. Both values should be mapped to the element located <code>StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/InstanceIde ntifier</code>

The qualifier

/StandardBusinessDocument/StandardBusinessDocumentHeader/BusinessScope/Scope/Type is used to distinguish the meaning of the values by using codes: DOCUMENTID and PROCESSID.

Example

#### 1.6 Message Envelope Schema



## openPEPPOL Business Message Envelope (SBDH)

## Guideline

lement/Attribute	Annotation	
tandardBusinessDocument	Type	StandardBusinessDocument
xs:sequence	Occurence	1 1
StandardBusinessDocumentHeader	Occurence	1
Volganiana	Туре	StandardBusinessDocumentHeader  1 1
∟ xs:sequence ⊢ HeaderVersion	Occurence	1 1
- neaderversion	Occurence Type	xs:string
	Fixed	1.0
	Description	Always value 1.0
- Sender	Occurence	1 1
	Type	Partner
xs:sequence	Occurence	1 1
- Identifier	Occurence	1 1
	Type	PartnerIdentification
	Description	Use the format XXXX:AAAAAAA where XXXX i
		the type of identifer (such as 0088 for GS1 GLN)
		and AAAAAAA the actual identifier.
L Authority	Type	xs:string
	Use	required
	Description	Use fixed value "iso6523-actorid-upis"
Receiver	Occurence	1 1
	Type	Partner
xs:sequence	Occurence	1 1
- Identifier	Occurence	1 1
	Type	PartnerIdentification
	Description	Use the format XXXX:AAAAAAA where XXXX i
		the type of identifer (such as 0088 for GS1 GLN)
		and AAAAAAA the actual identifier.
│	Type	xs:string
	Use	required
	Description	Use fixed value "iso6523-actorid-upis"
── DocumentIdentification	Occurence	1 1
	Type	DocumentIdentification
xs:sequence	Occurence	1 1
_ Standard	Occurence	1 1
	Type	xs:string
	Description	The standard of the enveloped business
		message, normally described by use of the XMI
		namespace of the business message root
		element (such as urn:oasis:names:specification
		ubl:schema:xsd:Order-2)
TypeVersion	Occurence	1 1
	Type	xs:string
	Description	The version number of the enveloped business
		message (such as the value "2.1" for OASIS UB 2.1 or "2.0" for OASIS UBL 2.0)
Instance dentifier	Coourance	
Instanceldentifier	Occurence Type	1 1 xs:string
		•
	Description	An informative unique ID created by the issuer the envelope. The InstanceIdentifier MUST be
		unique for each Business Message Envelope
		being created. This ID is not the same as the ID
		the business message (such as the Invoice
		Number). It is not the same as a transmission
		Message ID generated by the application sendi
		the message (as defined in AS2 or START).
		The InstanceIdentifier MUST be globally unique
		and it is RECOMMENDED to use UUID (such as
		118e3040-51d2-11e3-8f96-0800200c9a66)
— Туре	Occurence	1 1
	Type	xs:string
	Description	Message type - mandatory in SBDH. XML local
	•	element name of the root-element in the busines
A CALL CONTRACTOR OF THE CALL CONTRACTOR OF T		message.

## openPEPPOL Business Message Envelope (SBDH)

Element/Attribute	Annotation	
☐ CreationDateAndTime	created. It is NOT issue date of the binvoice) being enverthe date time for the timezone informat of the timezone informat for (Where the "Z" incompleted of the control of	value of this MUST include ion.
BusinessScope	Occurence 1 1 Type BusinessScope Description Elements used to DocumentID.	identify the ProcessID and
xs:sequence	Occurence 1 1	
- Scope	Occurence 2 unbounded Type Scope	se for DocumentID once for
xs:sequence	Occurence 1 1	
- ScopeAttributes		
- xs:sequence	Occurence 1 1	
_ Type	Occurence 1 1 Type xs:string Description Qualifier of how to InstanceIdentifier	
	Applicable Codes DOCUMENTID PROCESSID	
∟ InstanceIdentifier	Occurence 1 1 Type xs:string Description The ProcessID (pr corresponding to enveloped payload type of value is qu Type element)  Description For senders - this the correct set of I	ofile ID) or DocumentID PEPPOL SMP for which the d is intended to be used for. (the alified by the ScopeAttributes/ value can be used to retrieve PEPPOL service metadata.
- xs:any	that the receiving published support ProcessID.  Occurence 1 1	PEPPOL Participant has for this DocumentID or
	Description Business message	e goes here!

#### openPEPPOL Business Message Envelope (SBDH)

#### 1.7 Sample instance document

```
<?xml version="1.0" encoding="UTF-8"?>
<StandardBusinessDocument xmlns:xs="http://www.w3.org/2001/XMLSchema"</pre>
xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
       <StandardBusinessDocumentHeader>
               <HeaderVersion>1.0</HeaderVersion>
               <Sender>
                       <Identifier Authority="iso6523-actorid-</pre>
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>2013-02-19T05:10:10Z/CreationDateAndTime>
               </DocumentIdentification>
               <BusinessScope>
                       <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>
               </BusinessScope>
       </StandardBusinessDocumentHeader>
       <Tnvoice
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">
               <cbc:UBLVersionID>2.1</cbc:UBLVersionID>
               <cbc:CustomizationID schemeID="PEPPOL">
urn:www.cenbii.eu:transaction:biitrns010:ver2.0:extended:urn:www.peppol.eu:bis:peppol4a:ver2.0
</cbc:CustomizationID>
               <cbc:ProfileID>urn:www.cenbii.eu:profile:bii04:ver1.0</cbc:ProfileID>
               <cbc:ID>008660-AB</cbc:ID>
               <cbc:IssueDate>2011-05-10</cbc:IssueDate>
               <cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- reduced instance file -->
       </Invoice>
</StandardBusinessDocument>
```