



# **Specification**



# **OpenPEPPOL AISBL**



# PEPPOL Transport Infrastructure ICT - Models

# Policy for use of Identifiers



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# **Revision History**

Version	Date	Description of changes	Approved by
3.0	2014-02-03	Updated 1.3, References	
		Updated POLICY 11, PEPPOL Customization identifiers	
		Updated POLICY 12, Specifying Customization identifiers in UBL documents	
		Updated POLICY 16, PEPPOL process identifiers	
		Updated 4.2, Document Type Identifier Values	
		Updated 5.2, Process ID values	
		Updated 3.2, Identifier values including ZZZ	
3.1	2018-04-27	Extracted the code lists out of this document.	
		References to the code lists were updated.	
		Line numbers start with chapter 1.	
		No content changes.	
4.0		Updated legacy references and wordings	
		Separated Participant and Party identification	
		Introduced the term "Participant Identifier Meta Scheme"	



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# PEPPOL Implementation Specification

# PEPPOL Policy for use of Identifiers v4.0

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# 1 1 Introduction

# 2 1.1 Audience

- 3 This document describes a PEPPOL policy and guidelines for use of identifiers within the PEPPOL
- 4 network. The intended audience for this document are organizations wishing to be PEPPOL enabled
- 5 for exchanging electronic invoices, and/or their ICT-suppliers. More specifically it is addressed
- 6 towards the following roles:
- 7 ICT Architects
- 8 ICT Developers
- 9 Business Experts

# 10 1.2 References

[PEPPOL]	http://www.peppol.eu/
[PEPPOL_PostAward]	https://peppol.eu/downloads/post-award/
[PEPPOL_Transp]	https://peppol.eu/downloads/the-peppol-edelivery-network-
	specifications/
[PEPPOL_CodeList]	https://github.com/OpenPEPPOL/documentation/tree/master/Code%20Li
	<u>sts</u>
[CEN_BII]	http://cenbii.eu/deliverables/cen-bii/
[CEN_BII2]	http://cenbii.eu/deliverables/cen-bii-2/
[CEN_BII2_Guideline]	ftp://ftp.cen.eu/public/CWAs/BII2/CWA16558/CWA16558-Annex-C-BII-
	Guideline-ConformanceAndCustomizations-V1_0_0.pdf
[ISO 15459]	http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.ht
	m?csnumber=51284
	http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.ht
	m?csnumber=43349
[ISO 9735 Service Code	http://www.unece.org/trade/untdid/download/r1241.txt
List (0007)]	
[ISO 6523]	http://www.iso.org/iso/catalogue_detail?csnumber=25773
[OASIS UBL]	http://docs.oasis-open.org/ubl/os-UBL-2.1/UBL-2.1.html
	http://docs.oasis-open.org/ubl/os-UBL-2.1/UBL-2.1.zip
[OASIS UBL22]	http://docs.oasis-open.org/ubl/os-UBL-2.2/UBL-2.2.html
	http://docs.oasis-open.org/ubl/os-UBL-2.2/UBL-2.2.zip
[OASIS ebCore]	http://docs.oasis-open.org/ebcore/PartyIdType/v1.0/CD03/PartyIdType-
	<u>1.0.html</u>
[UN/CEFACT]	http://www.unece.org/cefact/



# 2 Introduction to identifiers

- 12 Identifiers are information elements that establish the identity of objects, such as organizations,
- 13 products, places, etc. The PEPPOL project uses many identifiers in both its transport infrastructure
- 14 and within the documents exchanged across that infrastructure. Two of the significant identifiers are
- 15 those for Parties/Participants (organizations, persons, etc.) and Services (business profiles, document
- types, etc). These are the "who" and the "what" of PEPPOL business exchanges. 16
- 17 This document outlines the policy for using the correct identifiers specifically for these two areas but
- it also introduces principles for any identifiers used in the PEPPOL environment. Implementers failing 18
- 19 to adhere to these policies seriously jeopardize the interoperability of the information being
- 20 exchanged. This policy should form a requirement of any PEPPOL participation agreements.

#### 2.1 Scope

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#### The policy of a federated scheme for identifying Parties<sup>5</sup> 2.1.1

- 23 Parties in the PEPPOL eDelivery Network play the role of Participants. There are sender and receiver
- 24 Participants in any exchange, but the Service Metadata Publisher (SMP) only publishes services
- 25 defined for the receiver Participant. The technical name for this identifier in the PEPPOL eDelivery
- 26 Network is the Participant Identifier.
- 27 Within each business document there are also Parties taking on business roles such as customer and
- 28 supplier, etc. Clearly there may be relationships between these Parties and the Participant Identifier.
- 29 Sometimes the Supplier Party is the receiver Participant for an Order document. Another example is
- 30 that an Invoice may contain an identifier for EndpointID that equates to the receiver Participant in
- the SMP. But neither of these are reliable rules. Business standards (such as EN 16931) and 31
- 32 agreements (such as BII profiles) do not (deliberately) include any 'envelope' information linking the
- document content to the transport infrastructure. The relationship between identifiers within 33
- 34 Documents and identifiers used in the transport infrastructure is not defined in the specifications.
- 35 So whilst there is a relationship between these various Parties, we have no policy on how this should
- 36 be done. This policy relates to the common use of different identification schemes to identify the
- 37 appropriate Party within the context required. In other words, identifiers may have different values
- 38 but the method by which they are defined should be consistent.
- 39 Many schemes already exist for identifying Parties. PEPPOL has no intention of developing yet
- 40 another. Our strategy is to recognize a range of different identification schemes and provide a code
- 41 list of those recognized schemes based on international standards.

# The policy for identifying Documents and Services used in PEPPOL implementation of the PEPPOL eDelivery Network

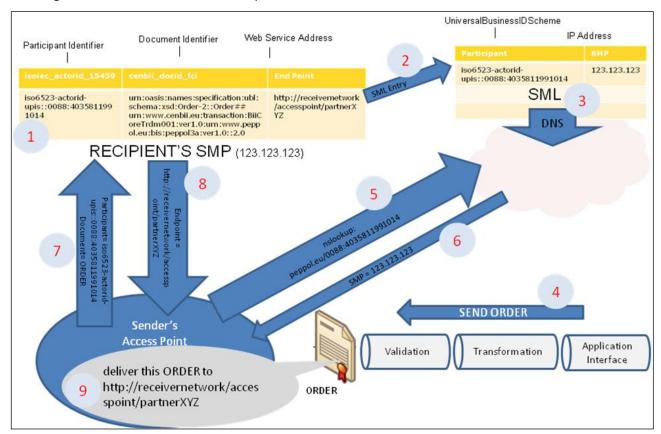
- 44 The PEPPOL eDelivery Network requires a Participant sending a document to identify both the
- 45 receiving Participant and the service that will receive the document. The sender (or their Access
- 46 Point provider) achieves this by searching the Service Metadata Locator (SML) filled Domain Name
- System (DNS) to find the relevant Service Metadata Publisher (SMP) that can identify the endpoint 47
- 48 URL<sup>6</sup> within the recipient's Access Point (AP). This endpoint URL is the service address where the
- 49 document is received. Therefore it is important to define precisely what documents and services can
- 50 be handled by the receiving Participant.

<sup>&</sup>lt;sup>6</sup> Note: the endpoint URL is not the same as the Endpoint ID in the business document.



<sup>&</sup>lt;sup>5</sup> By federation we mean that each agency maintains their own identification schemes. Our policy recognizes and identifies these schemes and does not attempt to replicate them.

51 The diagram below shows the relationship of these information elements.



PEPPOL has set up Business Interoperability Specifications (BIS) explaining how business documents need to be filled from a semantical and technical point of view.

# 2.2 Glossary

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- 56 This document covers the following areas:
  - Participant identification
    - Identification of a technical entity in the PEPPOL eDelivery network
    - Can be used in transport documents and (where needed) in business documents
  - Party identification
    - Identification of a <u>business entity</u>
    - Usually only used in business documents
    - Document type identification
    - Process identification
    - Transport profile identification

# 2.3 Participant vs. Party Identification

- 67 The following aspects are addressed in this document:
  - 1. The PEPPOL code list of Party Identification schemes used in PEPPOL BIS instance documents.
  - 2. The PEPPOL code list of Participant Identification schemes used in metadata as well as in PEPPOL BIS instance documents.



- 71 PEPPOL does not implement its own scheme for identifying Parties. Instead it supports a federated
- system for uniquely identifying parties following the ISO 15459 format scheme<sup>7</sup> for unique
- 73 identifiers. This requires defining a controlled set of "Issuing Agency Codes" for identification
- schemes (also known as "party identifier types" or "Identification code qualifier" or "International
- 75 Code Designators"<sup>11</sup> or "Party ID Type"<sup>12</sup>) required by PEPPOL implementations.
- Each PEPPOL Party identifier to be used in the federated system is a combination of the Issuing
   Agency Code and the value given by the Issuing Agency.
  - For PEPPOL, it will be part of the PEPPOL SMP Provider agreement that SMP Providers have suitable governance of their identification schemes when they enter, update and delete information on their SMP.
  - Within the content of business documents, each PEPPOL Participant will be responsible for using the appropriate PEPPOL Party Identifier.
- This section defines the policies for the formatting and the population of values for Party Identifiers used by PEPPOL.
- Note for UBL documents: It should be pointed out here that this policy covers only use
- 86 Party/PartyIdentification/ID and Party/EndpointID. Other party or participant
- 87 identifiers within UBL documents are out of scope for this policy.
- 88 Note for CII documents: It should be pointed out here that this policy covers only use
- ram:SellerTradeParty/ram:ID, ram:BuyerTradeParty/ram:ID,
- 90 ram:BuyerTradeParty/ram:URIUniversalCommunication/ram:URIID and
- 91 ram:SellerTradeParty/ram:URIUniversalCommunication/ram:URIID. Other party
- or participant identifiers within CII documents are out of scope for this policy.

# 2.4 Common Policies

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# POLICY 1 Usage of ISO15459

Participant Identifiers should adhere to the following constraints:

- MUST be at least 1 character long (excluding the identifier scheme)
- MUST NOT be more than 50 characters long (excluding the identifier scheme)
- MUST only contain letters and numeric digits from the invariant character set of ISO-8859-1

Party Identifiers should adhere to the following constraints:

- MUST be at least 1 character long (excluding the identifier scheme)
- MUST NOT be more than 50 characters long (excluding the identifier scheme)
- MUST only contain characters from the invariant character set of ISO-8859-1

Document Type Identifiers should adhere to the following constraints:

- MUST be at least 1 character long (excluding the identifier scheme)
- MUST NOT be more than 500 characters long (excluding the identifier scheme)
- MUST only contain characters from the invariant character set of ISO-8859-1

Process Identifiers should adhere to the following constraints:



<sup>&</sup>lt;sup>7</sup> ISO 15459-4 Individual items, see [ISO 15459]

<sup>&</sup>lt;sup>8</sup> ISO 15459 terminology, see [ISO 15459]

<sup>&</sup>lt;sup>9</sup> CEN/BII terminology

<sup>&</sup>lt;sup>10</sup> ISO 9735 Service Code List (0007) terminology

<sup>&</sup>lt;sup>11</sup> ISO 6523 terminology

<sup>&</sup>lt;sup>12</sup> OASIS ebCore terminology

PEPPOL Policy for use of Identifiers v4.0 111 MUST be at least 1 character long (excluding the identifier scheme) 112 MUST NOT be more than 200 characters long (excluding the identifier scheme) 113 114 ■ MUST only contain characters from the invariant character set of ISO-8859-1 Transport Profile Identifiers should adhere to the following constraints: 115 116 ■ MUST be at least 1 character long (excluding the identifier scheme) MUST NOT be more than 50 characters long (excluding the identifier scheme) 117 118 ■ MUST only contain letters, numeric digits, the minus sign ('-') or the underscore sign ('\_') from the invariant character set of ISO-8859-1 119 Applies to: all above mentioned types of identifiers in all PEPPOL components 120 POLICY 2 **Identifier Value casing** 121 122 All Participant Identifier values have to be treated case insensitive even if the underlying scheme 123 requires a case sensitive value. 124 All Party Identifier values have to be treated case insensitive even if the underlying scheme requires 125 a case sensitive value. All <u>Document Type Identifier</u> values have to be treated <u>case sensitive</u>. 126 127 All Process Identifier values have to be treated case sensitive. 128 All <u>Transport Profile Identifiers</u> have to be treated <u>case sensitive</u>. 129 Applies to: all identifiers in all PEPPOL components 130 Note: all identifier scheme values are case sensitive (see POLICY 5, POLICY 16 and POLICY 24) 131 **Examples:** Participant Identifier value "0088:abc" is equal to "0088:ABc" 132 133 Participant Identifier value "0088:abc" is NOT equal to "0010:abc" 134 135 Document Type Identifier value 136 urn:oasis:names:specification:ubl:schema:xsd:Invoice-137 2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:p 138 oacc:billing:3.0::2.1

#### is NOT equal to 139

140 URN: OASIS: NAMES: SPECIFICATION: UBL: SCHEMA: XSD: INVOICE-141 2::INVOICE##URN:CEN.EU:EN16931:2017#COMPLIANT#URN:FDC:PEPPOL.EU:2017:P 142 OACC:BILLING:3.0::2.1

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#### Process Identifier value

145 urn:fdc:peppol.eu:2017:poacc:billing:01:1.0

#### is NOT equal to 146

147 URN: FDC: PEPPOL.EU: 2017: POACC: BILLING: 01:1.0



# 148 3 Policy for PEPPOL Participant Identification

- 149 Participant identifiers relate to technical entities and are used in transport level document as well as
- in business documents.
- 151 **3.1 Format**

# 152 POLICY 3 Use of ISO15459 structure

- 153 Participant Identifier values used in PEPPOL are comprised of:
- 154 An Identifier Scheme
- 155 The value provided by this Identifier Scheme
- Applies to: all Participant identifiers in all PEPPOL components
- 157 Example:
- 158 Identifier Scheme: EAN International
- 159 Identifier Scheme according to [PEPPOL CodeList]: 0088
- Value provided by the Identifier Scheme: 1234567890128

# 161 POLICY 4 Coding of Identifier Schemes

- All Identifier Schemes for Participant Identifiers are to be taken from the normative version of
- 163 [PEPPOL CodeList].
- 164 This list is currently maintained by OpenPEPPOL. This maintenance is necessary because CEF did not
- yet publish a list for usage in EN 16931.
- 166 Applies to: all Participant identifiers in all PEPPOL components

# 167 3.2 Identifier Scheme values

- 168 The values for the initial PEPPOL identifier Scheme Code list were taken from the NESUBL PartyID
- 169 code list<sup>13</sup> but this has been extended to cover use by all PEPPOL participants and includes other
- 170 known Identifier Schemes (from e.g. ISO 6523<sup>14</sup>).
- 171 It is significant that this list will need ongoing extension under governance procedures currently
- being developed (see section on Governance). To ensure sustainability and proper governance it is
- proposed to include only Issuing Agency Codes (IACs) in the following order of priority:
- 174 1. International recognized standard schemes, then
- 175 2. International de-facto accepted schemes, then
- 176 3. Nationally defined schemes
- 177 The actual values for numeric International Code Designators were based on the following allocation
- 178 criteria:
- 1. ISO 6523 International Code Designator (if known), or
- 180 2. ISO 9735 Identification code qualifier (if known), or
- 3. An incremental number starting from 9900 (issued by PEPPOL)

 $\frac{\text{http://www.nesubl.eu/download/18.6dae77a0113497f158680002577/NES+Code+Lists+and+Identification+Schemes+-+Version+2.pdf}{\text{emes+-+Version+2.pdf}}$ 

<sup>14</sup> See http://en.wikipedia.org/wiki/ISO\_6523



<sup>&</sup>lt;sup>13</sup> See chapter 2.23:

- 182 Even though these numeric values are based on ISO code sets, they form a separate PEPPOL code list
- 183 because they contain additional values. Therefore the Issuing Agency for all numeric codes is PEPPOL
- 184 and not ISO 6523.

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- 185 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 Issuing Agency Codes may however not
- 188 be reused for different agencies as existing exchanged documents may refer to them.

# POLICY 5 Participant Identifier Meta Scheme

- 190 The PEPPOL Participant Identifier Meta Scheme is:
- 191 iso6523-actorid-upis
- 192 Applies to: all Participant Identifiers in all PEPPOL components
- 193 Note: this Meta Scheme is always case sensitive only the Participant Identifier value is case
- insensitive (see POLICY 2).
- 195 Note: the Participant Identifier Meta Scheme may be omitted in documents because it is constant.

# 196 POLICY 6 Numeric Codes for Identifier Schemes

- 197 The numeric ISO 6523 code set as used in PEPPOL include additional code values not part of the
- official ISO 6523 code set and so cannot be referred to as the official ISO 6523 code set 15. The codes
- 199 starting with "99" are extending this code set and are called "extended values". For convenience the
- term "ISO 6523" is used for all codes and indicates the origin of many code values used.
- 201 Applies to: all participant identifiers in all PEPPOL components
- 202 A normative list of all PEPPOL Participant Identifier Schemes and metadata can be found at
- 203 [PEPPOL CodeList]. Note: entries marked as deprecated should not be used for newly issued
- 204 documents, as the respective Participant Identifier Scheme is no longer active/valid. Deprecated
- 205 scheme IDs may however not be reused for different Participant Identifier Schemes as existing
- 206 exchanged documents may refer to them.

# POLICY 7 Participant Identifiers for DNS

- Participant identifiers consisting of scheme and value are encoded as follows into a DNS name:
- 209 B-<hash-of-value>.<scheme>.<SML-zone-name>
- 210 Applies to: the resolution of PEPPOL Participant Identifiers for SMP clients

## 211 Explanation:

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<hash-of-value>

Is the string representation of the MD5 hash value, of the lowercased identifier value (e.g. 0088:abc).

The **UTF-8** charset needs to be used for extracting bytes out of strings for MD5 hash value creation.

Lowercasing must be performed according to the **en\_US** locale rules (no special character handling).

Note: it is important, that the MD5 hash value is generated **after** the identifier value has been lowercased because according to POLICY 2 participant identifiers

<sup>&</sup>lt;sup>15</sup> ISO 6523 is currently under revision after a 25 year working period; the new version will meet requirements imposed by technological development.



	have to be treated case insensitive. "String representation" means the encoding of each MD5 hash-byte into 2 characters in the range of [0-9a-f] (e.g. byte value 255 becomes string representation "ff").
<scheme></scheme>	Is the identifier scheme value ("iso6523-actorid-upis" in PEPPOL) and is added "as is" into the DNS name <sup>16</sup> .
	A scheme identifier may only contain the following characters: only contain the following characters: [a-z], [0-9], [-].
	A scheme identifier SHOULD be as short as possible, and MUST NOT exceed 25 characters.
<sml-zone- name&gt;</sml-zone- 	Is the DNS domain name of the SML zone (e.g. "edelivery.tech.ec.europa.eu." – mind the trailing dot).

## 212 **Example:**

- The Participant Identifier 0088:123abc with the Meta Scheme iso6523-actorid-upis in the
- 214 SML DNS zone edelivery.tech.ec.europa.eu. is encoded into the following identifier:

```
B-f5e78500450d37de5aabe6648ac3bb70.iso6523-actorid-upis.
edelivery.tech.ec.europa.eu.
```

- The result must be the same if the identifier 0088:123ABC is used, as identifier values are treated
- 218 case insensitive.

# 219 POLICY 8 XML attributes for Participant Identifiers in SMP responses

- The "scheme" attribute must be populated with the value "iso6523-actorid-upis" (see POLICY 5) in all instances of the "ParticipantIdentifier" element.
- 222 Applies to: XML documents used in the SMP

## 223 **Example 1:**

- The following example from an SMP exchange denotes that the SMP Endpoint is identified using the
- 225 ISO 6523 ICD value in the OpenPEPPOL set of Participant Identifier Schemes. This in turn has a
- numeric value of 0088 meaning that the party has a GLN number with the value of
- 7300010000001.

### Example 2:

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The following example denotes that the SMP Endpoint is identified using the ISO 6523 ICD value in

the OpenPEPPOL set of Participant Identifier Schemes. This in turn has a numeric value of 0002

meaning that the party has a French SIRENE identifier with the value of 542034942.

<sup>&</sup>lt;sup>16</sup> Case changes may be done but are not required, as the underlying DNS system is case insensitive.



# POLICY 9 XML attributes for Electronic Address IDs (EndpointID) in UBL documents

- The "schemeID" attribute MUST be populated in all instances of the "EndpointID" element when
- used within a "Party" element. The only valid values are defined in the [PEPPOL\_CodeList] as "ICD
- 240 value".

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- 241 Extended values starting with "99" as indicated by POLICY 6 MAY be used.
- 242 Applies to: all business documents used in a PEPPOL BIS with UBL syntax mapping

# 243 Example:

```
244 <cac:Party>
```

246 </cac:Party>

# POLICY 10 XML attributes for Electronic address IDs in CII documents

- The "schemeID" attribute MUST be populated in all instances of the
- 249 "ram:URIUniversalCommunication/ram:URIID" element when used within a "Party" element. The
- only valid values are defined in the [PEPPOL\_CodeList] as "ICD value".
- 251 Extended values starting with "99" as indicated by POLICY 6 MAY be used.
- 252 Applies to: all business documents used in a PEPPOL BIS with CII syntax mapping

## 253 Example:

```
254 <ram:BuyerTradeParty>
```

- 256 <ram:URIID schemeID="0088">7300010000001</ram:URIID>
- 257 /ram:URIUniversalCommunication>

# POLICY 11 XML attributes for Participant Identifiers in the Envelope (SBDH)

- The "Authority" attribute must be populated with the value "iso6523-actorid-upis" (see POLICY 5) in all instances of the "Identifier" element.
- 262 Applies to: all instances of the PEPPOL Business Message Envelope (SBDH)

#### 263 **Example 1:**

- The following example denotes that the Sender Identifier of the Business Envelope is identified using
- the ISO 6523 ICD value in the OpenPEPPOL set of Participant Identifier Schemes. This in turn has an
- alphanumeric value of 0088:7300010000001 meaning that the party has a GLN number with the
- 267 value of 7300010000001.

#### 268 <Sender>

- 270 upis">0088:7300010000001</Identifier>
- 271 </sender>

## Example 2:

- 273 The following example denotes that the Receiver Identifier of the Business Envelope is identified
- using the ISO 6523 ICD value in the OpenPEPPOL set of Participant Identifier Schemes. This in turn
- has an alphanumeric value of 0088:7300010000001 meaning that the party has a GLN number
- 276 with the value of 7300010000001.
- 277 <Receiver>



# PEPPOL Implementation Specification

# PEPPOL Policy for use of Identifiers v4.0



# 281 4 Policy for PEPPOL Party Identification

- 282 Party identification relates to business entities and is only used in business documents.
- 283 **4.1 Format**
- 284 POLICY 12 Use of ISO15459 structure
- 285 Party Identifier values used in PEPPOL are comprised of:
- 286 An optional Identifier Scheme
- 287 The value provided by this Identifier Scheme
- 288 Applies to: all Party identifiers in all PEPPOL components
- Note: the Identifier Scheme MAY be omitted if it can be reasoned within the context<sup>17</sup>.
- 290 Example:
- 291 Identifier Scheme: EAN International
- 292 Identifier Scheme according to ISO 6523: 0088
- Value provided by the Identifier Scheme: 1234567890128
- 294 POLICY 13 Coding of Identifier Schemes
- All Identifier Scheme for Party Identifiers are to be taken from the normative version of the ISO 6523
- 296 | ICD list
- 297 Applies to: all Party identifiers in all PEPPOL components
- 298 POLICY 14 XML attributes for Party Identifiers in UBL documents
- The "schemeID" attribute SHOULD be populated in all instances of the "ID" element when used
- within a "Partyldentification" element when used within a "Party" element. The only valid values are
- defined in the [ISO 6523] code list as the numeric "International Code Designator" (ICD) value.
- Extended values starting with "99" as indicated by POLICY 6 MUST NOT be used.
- 303 Applies to: all business documents used in a PEPPOL BIS with UBL syntax mapping
- Note: the Party Identification is not involved in a PEPPOL Document Exchange it is contained for
- 305 business usage only.
- 306 **Example 1:**
- The following example denotes that the ISO 6523 ICD value is 0088 meaning it's a GLN number with
- 308 the value of 7300010000001.
- 310 <cbc:ID schemeID="0088">7300010000001</cbc:ID>
- 311 </cac:PartyIdentification>
- 312 **Example 2:**
- 313 The following example denotes that the ISO 6523 ICD value is 0002 meaning it's a French SIRENE
- number with the value of 542034942.

<sup>&</sup>lt;sup>17</sup> This is e.g. relevant for the PEPPOL Billing BIS to be compliant with EN 16931.



315	<pre><cac:partyidentification></cac:partyidentification></pre>
316	<cbc:id schemeid="0002">542034942</cbc:id>
317	

# POLICY 15 XML attributes for Party Identifiers in CII documents

- 319 The "schemeID" attribute SHOULD be populated in all instances of the "ID" element when used 320 within a "Partyldentification" element when used within a "Party" element. The only valid values are defined in the [ISO 6523] code list as the numeric "International Code Designator" (ICD) value. 321 Extended values starting with "99" as indicated by POLICY 6 MUST NOT be used. 322
- 323 Applies to: all business documents used in a PEPPOL BIS with CII syntax mapping
- 324 Note: the Party Identification is not involved in a PEPPOL Document Exchange – it is contained for
- 325 business usage only.

#### 326 Example 1:

318

327 The following example denotes that the ISO 6523 ICD value is 0088 meaning it's a GLN number with 328 the value of 7300010000001.

```
329
           <ram:BuyerTradeParty>
330
             <ram:ID schemeID="0088">7300010000001</ram:ID>
331
           </ram:BuyerTradeParty>
```

#### 332 Example 2:

The following example denotes that the ISO 6523 ICD value is 0002 meaning it's a French SIRENE 333 number with the value of 542034942. 334

```
335
           <ram:BuyerTradeParty>
336
             <ram:ID schemeID="0002 ">542034942</ram:ID>
337
           </ram:BuyerTradeParty>
```



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# 5 Policies on Identifying Document Types supported by PEPPOL

Document types used in PEPPOL are identified using the concepts defined in the PEPPOL Identifier Schemes Version 1.0.0 (see [PEPPOL\_Transp]). As outlined in POLICY 2 document type identifier values have to be treated case sensitive.

The identifier format is an aggregated format that covers the following identifier concepts:

## Syntax specific Identifier:

This identifies the syntax (e.g. XML) and format (e.g. UBL Invoice) of the document that is being exchanged in the service. E.g. for XML documents, the root element namespace (the namespace of the schema defining the root element) and document element local name (the name of the root element) are concatenated using the "::" delimiter to define the syntax of the XML document.

#### Customization Identifier:

An identification of the specification containing the total set of rules regarding semantic content, cardinalities and business rules to which the data contained in the instance document conforms. PEPPOL requirements are documented in PEPPOL BIS which also indicate the implementation syntax (like UBL). See [PEPPOL\_PostAward] for details.

#### Version Identifier:

This identifies the version of a document type following the versioning conventions of that specific document syntax and format.

# **POLICY 16** Document Type Identifier scheme

- 359 The PEPPOL document type identifier scheme to be used is:
- 360 busdox-docid-qns
- 361 Applies to: all Document Type Identifiers in all components
- 362 Note: this scheme identifier is always case sensitive

# 363 POLICY 17 Customization Identifiers

- The Customization Identifier is defined in the relevant PEPPOL BIS specification.
- A Customization Identifier MUST NOT contain whitespace characters.
- 366 Applies to: all Document Type Identifiers in all components

# 367 Example 1 (from Billing BIS v3):

urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing
:3.0

# 370 Example 2 (from Order BIS v2):

# POLICY 18 Specifying Customization Identifiers in UBL documents

- The value for "CustomizationID" element in the UBL document instance must correspond to the Customization ID of the Document Type Identifier.
- 376 Applies to: all business documents used in a PEPPOL BIS with UBL syntax mapping

# 377 Example (from Billing BIS v3):



# POLICY 19 Specifying Customization Identifiers in CII Documents

The value for "//ExchangeDocumentContext/GuidelineSpecifiedDocumentContextParameter/ID" element in the CII document instance must correspond to the Customization ID of the Document Type Identifier.

Applies to: all business documents used in a PEPPOL BIS with CII syntax mapping

# CII example (from Billing BIS v3):

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384

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# POLICY 20 Document Type Identifier Value pattern

- 398 Applies to: all Document Type Identifiers in all components
- The Document Type Identifier Value pattern is based on a concatenation of a syntax specific identifier and an optional subtype identifier in the layout:
- 401 <syntax specific id>[##<subtype Identifier>]
- 402 Everything between "[" and "]" denotes an optional part and ## is a string literal.
- The <syntax specific id> for XML based documents is a concatenation of the document element namespace URI and the document element local name, separated by a double-colon:
- 405 | <document element namespace URI>::<document element local name>
- 406 The <subtype Identifier> is the combination of customization ID and version.
- Therefore, the final structure of the pattern is:

```
408 <syntax specific id>##<customization id>::<version>
```

- When representing document type identifiers in URLs, the document identifier itself will be prefixed with the scheme identifier (see POLICY 16) following two colons:
- 411 <scheme identifier>::<syntax specific id>##<customization id>::<version>
- 412 This string must be percent encoded if used in a URL.
- 413 Example (from Billing BIS v3):
- The following example denotes a Document Type that is a UBL 2.1 Invoice conforming to the PEPPOL
- 415 Billing BIS v3.

```
416
417
418

urn:oasis:names:specification:ubl:schema:xsd:Invoice-
2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:p
oacc:billing:3.0::2.1
```



Syntax specific ID	urn:oasis:names:specification:ubl:schema:xsd:lnvoice-2::lnvoice
XML document element namespace URI	urn:oasis:names:specification:ubl:schema:xsd:Invoice-2
XML document element local name	Invoice
Customization ID	urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0
Version	2.1

# 419 POLICY 21 Specifying Document Type Identifiers in SMP documents

- The value for the "scheme" attribute must be "busdox-docid-qns" (see POLICY 16) and the element value must be the document type identifier itself.
- 422 Applies to: all XML documents used in the SMP

# 423 Example (from Billing BIS v3):

# POLICY 22 Specifying Document Type Identifiers in the Envelope (SBDH)

When the "//BusinessScope/Scope/Type" element value is "DOCUMENTID", the value for the "//BusinessScope/Scope/Identifier" element must be "busdox-docid-qns" (see POLICY 16) and the value of the element "//BusinessScope/Scope/InstanceIdentifier" must be the document type identifier itself.

Applies to: all instances of the PEPPOL Business Message Envelope (SBDH)

# 435 Example:

429

434

447

```
436
           <BusinessScope>
437
             <Scope>
438
               <Type>DOCUMENTID</Type>
439
               <InstanceIdentifier>
440
           urn:oasis:names:specification:ubl:schema:xsd:Invoice-
441
           2::Invoice##urn:www.cenbii.eu:transaction:biitrns010:ver2.0:extended:u
442
           rn:www.peppol.eu:bis:peppol4a:ver2.0::2.1</InstanceIdentifier>
443
               <Identifier>busdox-docid-gns</Identifier>
             </Scope>
444
           </BusinessScope>
445
```

Note: the order of elements is defined by the Standard Business Document Header XML Schema.

## POLICY 23 Document Type Identifier Values

- 448 All valid Document Type Identifier Values are defined in [PEPPOL CodeList].
- 449 Applies to: all Document Type Identifiers in all components
- 450 Rows in [PEPPOL\_CodeList] marked as "deprecated" should not be used for newly issued documents.
- 451 It is important to note that this is a dynamic list. Over time new services will be added. Developers
- 452 should take this into account when designing and implementing solutions for PEPPOL services.



# 453 6 Policy for PEPPOL Process Identifiers

- 454 Process Identifiers define the orchestrations in which business documents are exchanged. A Process
- Identifier Value is referenced in a PEPPOL BIS specification as "profile identifier".
- 456 As outlined in POLICY 2 PEPPOL process identifiers have to be treated case sensitive.

# 457 **POLICY 24 Process Identifier Scheme**

- 458 The PEPPOL Process Identifier Scheme is:
- 459 cenbii-procid-ubl
- 460 Applies to: all Process Identifiers in all components
- 461 Note: this scheme identifier is always case sensitive

# 462 POLICY 25 Process Identifier Value

- 463 All valid Process Identifier Values are defined in [PEPPOL CodeList].
- 464 Process Identifier Values MUST NOT contain whitespace characters.
- 465 Applies to: all Process Identifiers in all components

# 466 Example 1 (from Billing BIS v3):

urn:fdc:peppol.eu:2017:poacc:billing:01:1.0

## 468 Example 2 (from Order BIS v2):

```
469 urn:www.cenbii.eu:profile:bii03:ver2.0
```

- 470 Rows in [PEPPOL\_CodeList] marked as "deprecated" should not be used for newly issued documents.
- 471 It is important to note that this is a dynamic list. Over time new services will be added. Developers
- should take this into account when designing and implementing solutions for PEPPOL services.

# POLICY 26 Specifying Process Identifiers in the Envelope (SBDH)

- When the "//BusinessScope/Scope/Type" element value is "PROCESSID", the value for the
- 475 | "//BusinessScope/Scope/Identifier" element must be "cenbii-procid-ubl" (see POLICY 24) and the
- value of the element "//BusinessScope/Scope/InstanceIdentifier" must be the process identifier
- 477 itself.

473

488

478 Applies to: all instances of the PEPPOL Business Message Envelope (SBDH)

## 479 **Example:**

```
480
           <BusinessScope>
481
             <Scope>
482
               <Type>PROCESSID</Type>
483
               <InstanceIdentifier>
484
           urn:www.cenbii.eu:profile:bii04:ver1.0</InstanceIdentifier>
485
               <Identifier>cenbii-procid-ubl</Identifier>
486
             </Scope>
487
           </BusinessScope>
```

Note: the order of elements is defined by the Standard Business Document Header XML Schema.

# 489 POLICY 27 Specifying Process Identifiers in SMP documents

- The value for the scheme attribute should be "cenbii-procid-ubl" (see POLICY 24) and the element
- 491 value must be the process identifier itself.
- 492 Applies to: XML documents used in the SMP



# 493 Example 1 (CEN/BII):

494	<pre><processidentifier scheme="cenbii-procid-&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;495&lt;/th&gt;&lt;th&gt;ubl">urn:www.cenbii.eu:profile:bii03:ver1.0</processidentifier></pre>
-----	---

# 496 Example 2 (CEN/BII2):

497	<pre><processidentifier scheme="cenbii-procid-&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;498&lt;/th&gt;&lt;th&gt;ubl">urn:www.cenbii.eu:profile:bii03:ver2.0</processidentifier></pre>
-----	---



# 7 Policy on Identifying Transport Profiles in PEPPOL

- 500 **7.1 SMP**
- The PEPPOL Transport Infrastructure supports different transport protocols. Each endpoint
- registered in an SMP is required to provide a transport profile identifying the used transport.

# 503 POLICY 28 Transport Profile Values

- All valid Transport Profile Values are defined in [PEPPOL CodeList].
- 505 Applies to: all XML documents used in the SMP
- Rows in [PEPPOL\_CodeList] marked as "deprecated" should not be used for newly issued documents.
- 507 It is important to note that this is a dynamic list. Over time new services will be added. Developers
- 508 should take this into account when designing and implementing solutions for PEPPOL services.

# POLICY 29 Specifying Transport Profiles in SMP documents

- The Transport Profile identifier must be placed in the "transportProfile" attribute of the SMP
- 511 "Endpoint" element.

509

- The value of the "transportProfile" attribute is case sensitive.
- 513 Applies to: all XML documents used in the SMP

# 514 **Example 1 (AS2):**

## 518 Example 2 (AS4 profile v2):



# 8 Governance of this Policy

- 523 This policy needs maintenance to ensure it supports new versions of the standards, extensions to
- 524 other identification schemes, new services etc.
- This policy document together with the code lists for Identifier Schemes, Document Type Identifiers,
- 526 Process Identifiers and Transport Profiles is maintained by the PEPPOL Transport Infrastructure
- 527 Coordinating Community (TICC).

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- To ensure sustainability and proper governance of Identifier Schemes it is proposed to include only
- 529 Identifier Schemes in the scope of:
- 1. It should be verified, whether an inclusion in the official ISO 6523 code list is possible
- 2. International recognized standard schemes (e.g. CEN, ISO, UN/ECE)
- 3. International de-facto accepted schemes (e.g. OASIS)
- 533 4. Nationally defined schemes
- It shall be ensured that each Identifier Scheme provider:
  - Recognizes any organisation wishing to allocate unique Party identifiers as part of PEPPOL.
     An individual organisation or company wishing to issue unique identifiers shall do so through officially recognized umbrella organisations such as their trade associations, network provider or a public or state agency;
  - 2. Has defined rules so that a unique party identifier is only re-issued after the previously issued unique identifier has ceased to be of significant to any user. The length of such period should be dependent upon the environment in which the unique identifier will be used.
- These rules mirror those of an ISO 15459 registration Authority and will support the option to transfer the responsibility that authority as part of the PEPPOL sustainability programme.

