Specification

OpenPEPPOL AISBL

PEPPOL Transport Infrastructure
ICT - Models

Policy for use of Identifiers

Version: 4.0

Status: In use

Editors:

    Philip Helger, BRZ
    Erik Gustavsen, Difi/Edisys Consulting
    Martin Forsberg, ESV
    Sven Rasmussen, NITA

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	2019-01-28	Updated legacy references and wordings	
		Separated Participant and Party identification	
		Introduced the term "Participant Identifier Meta Scheme"	
		Added relation to PEPPOL BIS versions 1 and 2	
		Added a table with all used XML Namespace URIs	

Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

Statement of copyright

Contributors

Organisations

DIFI (Direktoratet for forvaltning og IKT)[1], Norway, www.difi.no

Erhvervsstyrelsen[2], Denmark, erhvervsstyrelsen.dk

BRZ (Bundesrechenzentrum)[3], Austria, www.brz.gv.at

DIGG (Myndigheten för Digital Förvaltning[4]), Sweden, www.digg.se

OpenPEPPOL

Persons

Philip Helger, BRZ

Jens Jakob Andersen, NITA

Tim McGrath, DIFI/Document Engineering Services

Bergthor Skulason, NITA

Erik Gustavsen, DIFI/Edisys Consulting

Martin Forsberg, ESV/Ecru Consulting

Bård Langöy, Pagero

Siw Midtgård Meckelborg, Edisys Consulting

Jerry Dimitriou, OpenPEPPOL Operating Office

Hans Berg, Tickstar

Risto Collanus, Visma

---

[1] English: Agency for Public Management and eGovernment
[2] English: Danish Business Authority
[3] English: Austrian Federal Computing Centre
[4] English: Agency for Digital Government

Table of contents

1   Introduction

1.1   Audience

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

- ▶ ICT Architects
- ▶ ICT Developers
- ▶ Business Experts

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%20Lists
[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.htm?csnumber=51284 http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=43349
[ISO 9735 Service Code List (0007)]	http://www.unece.org/trade/untdid/download/r1241.txt
[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-1.0.html
[UN/CEFACT]	http://www.unece.org/cefact/

1.3   XML Namespaces URIs used

Prefix	Namespace URI
cac	urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2

cbc	urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2
ram	urn:un:unece:uncefact:data:standard:ReusableAggregateBusinessInformationEntity:100
rsm	urn:un:unece:uncefact:data:standard:CrossIndustryInvoice:100

2   Introduction to identifiers

12

13 Identifiers are information elements that establish the identity of objects, such as organizations,
14 products, places, etc. The PEPPOL project uses many identifiers in both its transport infrastructure
15 and within the documents exchanged across that infrastructure. Two of the significant identifiers are
16 those for Parties/Participants (organizations, persons, etc.) and Services (business profiles, document
17 types, etc). These are the "who" and the "what" of PEPPOL business exchanges.

18 This document outlines the policy for using the correct identifiers specifically for these two areas but
19 it also introduces principles for any identifiers used in the PEPPOL environment. Implementers failing
20 to adhere to these policies seriously jeopardize the interoperability of the information being
21 exchanged. This policy should form a requirement of any PEPPOL participation agreements.

2.1   Scope

22

2.1.1   The policy of a federated scheme for identifying Parties[5]

23

24 Parties in the PEPPOL eDelivery Network play the role of Participants. There are sender and receiver
25 Participants in any exchange, but the Service Metadata Publisher (SMP) only publishes services
26 defined for the receiver Participant. The technical name for this identifier in the PEPPOL eDelivery
27 Network is the Participant Identifier.

28 Within each business document there are also Parties taking on business roles such as customer and
29 supplier, etc. Clearly there may be relationships between these Parties and the Participant Identifier.
30 Sometimes the Supplier Party is the receiver Participant for an Order document. Another example is
31 that an Invoice may contain an identifier for EndpointID that equates to the receiver Participant in
32 the SMP. But neither of these are reliable rules. Business standards (such as EN 16931) and
33 agreements (such as BII profiles) do not (deliberately) include any 'envelope' information linking the
34 document content to the transport infrastructure. The relationship between identifiers within
35 Documents and identifiers used in the transport infrastructure is not defined in the specifications.

36 So whilst there is a relationship between these various Parties, we have no policy on how this should
37 be done. This policy relates to the common use of different identification schemes to identify the
38 appropriate Party within the context required. In other words, identifiers may have different values
39 but the method by which they are defined should be consistent.

40 Many schemes already exist for identifying Parties. PEPPOL has no intention of developing yet
41 another. Our strategy is to recognize a range of different identification schemes and provide a code
42 list of those recognized schemes based on international standards.

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

43
44

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

---

[5] 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.
[6] Note: the endpoint URL is not the same as the Endpoint ID in the business document.

52   The diagram below shows the relationship of these information elements.
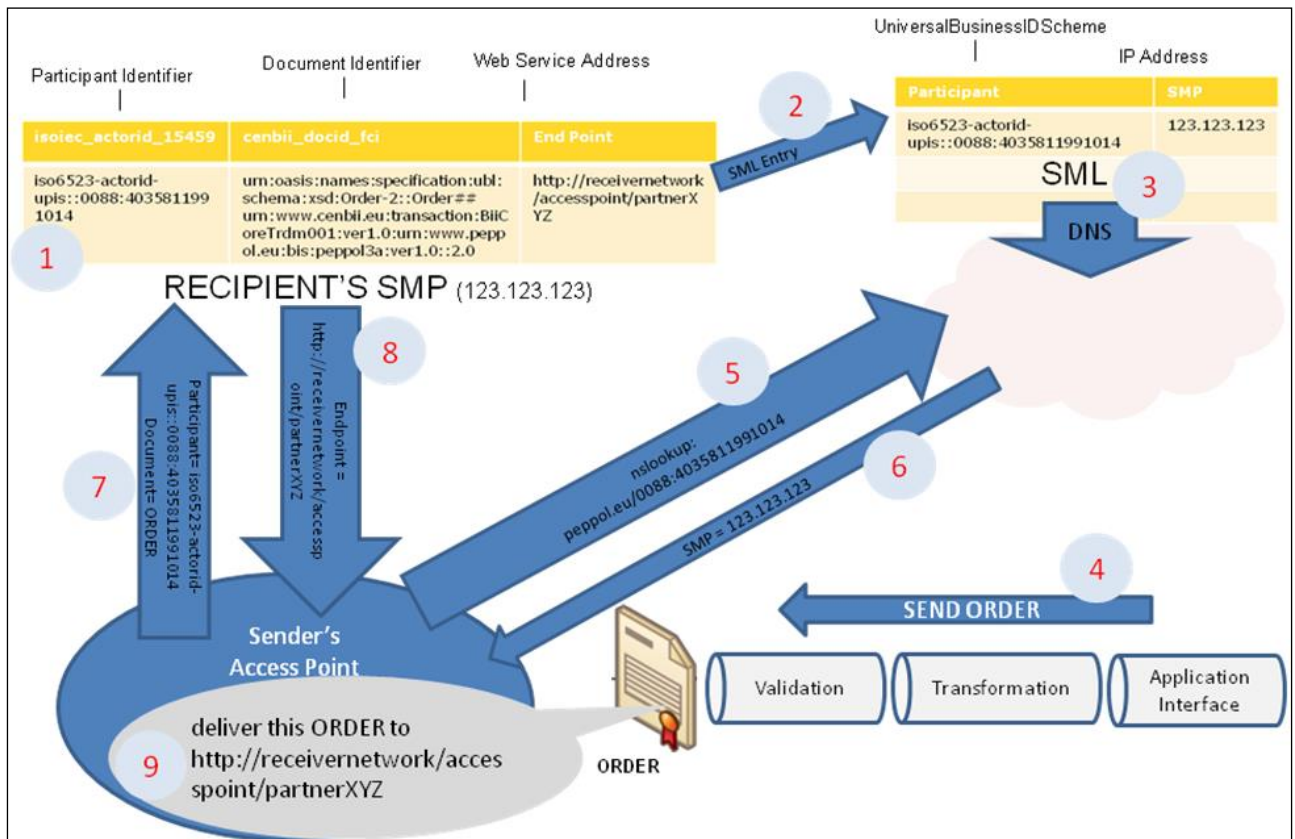
53

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

2.1.3   Semantic scope

57   This document covers the following areas:

58   ▶ Participant identification
59   ▶▶ Identification of a <u>technical entity</u> in the PEPPOL eDelivery network
60   ▶▶ Can be used in transport documents and (where needed) in business documents
61   ▶ Party identification
62   ▶▶ Identification of a <u>business entity</u>
63   ▶▶ Usually only used in business documents
64   ▶ Document type identification
65   ▶ Process identification
66   ▶ Transport profile identification

2.1.4   Relation to PEPPOL BIS versions 1 and 2

68   This version of the document cannot be applied on PEPPOL BIS versions 1 and 2. PEPPOL BIS versions
69   1 and 2 MUST follow the most up-to-date "PEPPOL Policy for use of identifiers" version 3.x.

2.2   Participant vs. Party Identification

71   The following aspects are addressed in this document:

72   1.   The PEPPOL code list of Party Identification schemes used in business documents.

73   2. The PEPPOL code list of Participant Identification schemes used in metadata as well as in
74   business documents.

75 PEPPOL does not implement its own scheme for identifying Parties. Instead it supports a federated
76 system for uniquely identifying parties following the ISO 15459 format scheme[7] for unique
77 identifiers. This requires defining a controlled set of "Issuing Agency Codes"[8] for identification
78 schemes (also known as "party identifier types"[9] or "Identification code qualifier"[10] or "International
79 Code Designators"[11] or "Party ID Type"[12]) required by PEPPOL implementations.

80 Each PEPPOL Party identifier to be used in the federated system is a combination of the Issuing
81 Agency Code and the value given by the Issuing Agency.

82   ▸   For PEPPOL, it will be part of the PEPPOL SMP Provider agreement that SMP Providers have
83   suitable governance of their identification schemes when they enter, update and delete
84   information on their SMP.

85   ▸   Within the content of business documents, each PEPPOL Participant will be responsible for
86   using the appropriate PEPPOL Party Identifier.

87 This section defines the policies for the formatting and the population of values for Party Identifiers
88 used by PEPPOL.

89 Note for UBL documents: It should be pointed out here that this policy covers only use
90 `Party/PartyIdentification/ID` and `Party/EndpointID`. Other party or participant
91 identifiers within UBL documents are out of scope for this policy.

92 Note for CII documents: It should be pointed out here that this policy covers only use
93 `SellerTradeParty/ID`, `BuyerTradeParty/ID`,
94 `BuyerTradeParty/URIUniversalCommunication/URIID` and
95 `SellerTradeParty/URIUniversalCommunication/URIID`. Other party or participant
96 identifiers within CII documents are out of scope for this policy.

2.3   Common Policies
97

POLICY 1   Usage of ISO15459
98

99 Participant Identifiers should adhere to the following constraints:
100 ▪ MUST be at least 1 character long (excluding the identifier scheme)
101 ▪ MUST NOT be more than 50 characters long (excluding the identifier scheme)
102 ▪ MUST only contain letters and numeric digits from the invariant character set of ISO-8859-1
103

104 Party Identifiers should adhere to the following constraints:
105 ▪ MUST be at least 1 character long (excluding the identifier scheme)
106 ▪ MUST NOT be more than 50 characters long (excluding the identifier scheme)
107 ▪ MUST only contain characters from the invariant character set of ISO-8859-1
108

109 Document Type Identifiers should adhere to the following constraints:
110 ▪ MUST be at least 1 character long (excluding the identifier scheme)
111 ▪ MUST NOT be more than 500 characters long (excluding the identifier scheme)

---

[7] ISO 15459-4 Individual items, see [ISO 15459]
[8] ISO 15459 terminology, see [ISO 15459]
[9] CEN/BII terminology
[10] ISO 9735 Service Code List (0007) terminology
[11] ISO 6523 terminology
[12] OASIS ebCore terminology

112	▪ MUST only contain characters from the invariant character set of ISO-8859-1
113	
114	Process Identifiers should adhere to the following constraints:
115	▪ MUST be at least 1 character long (excluding the identifier scheme)
116	▪ MUST NOT be more than 200 characters long (excluding the identifier scheme)
117	▪ MUST only contain characters from the invariant character set of ISO-8859-1
118	
119	Transport Profile Identifiers should adhere to the following constraints:
120	▪ MUST be at least 1 character long (excluding the identifier scheme)
121	▪ MUST NOT be more than 50 characters long (excluding the identifier scheme)
122	▪ MUST only contain letters, numeric digits, the minus sign ('-') or the underscore sign ('_') from the
123	invariant character set of ISO-8859-1

124 Applies to: all above mentioned types of identifiers in all PEPPOL components

POLICY 2   Identifier Value casing

126	All Participant Identifier values have to be treated case insensitive even if the underlying scheme
127	requires a case sensitive value.
128	All Party Identifier values have to be treated case insensitive even if the underlying scheme requires
129	a case sensitive value.
130	All Document Type Identifier values have to be treated case sensitive.
131	All Process Identifier values have to be treated case sensitive.
132	All Transport Profile Identifiers have to be treated case sensitive.

133 Applies to: all identifiers in all PEPPOL components

134 Note: all identifier scheme values are case sensitive (see POLICY 5, POLICY 16 and POLICY 24)

135 **Examples:**

136 Participant Identifier value "0088:abc" is equal to "0088:ABc"

137 Participant Identifier value "0088:abc" is NOT equal to "0010:abc"

138

139 Document Type Identifier value

```
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
```

143 is NOT equal to

```
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
```

147

148 Process Identifier value

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

150 is NOT equal to

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

152   3   Policy for PEPPOL Participant Identification

153 Participant identifiers relate to technical entities and are used in transport level document as well as
154 in business documents.

155   3.1   Format

156   POLICY 3   Use of ISO15459 structure

157 Participant Identifier values used in PEPPOL are comprised of:
158 - An Identifier Scheme
159 - The value provided by this Identifier Scheme

160 Applies to: all Participant identifiers in all PEPPOL components

161 **Example:**

162 Identifier Scheme: EAN International

163 Identifier Scheme according to [PEPPOL_CodeList]: `0088`

164 Value provided by the Identifier Scheme: `1234567890128`

165   POLICY 4   Coding of Identifier Schemes

166 All Identifier Schemes for Participant Identifiers are to be taken from the normative version of
167 [PEPPOL_CodeList].
168 This list is currently maintained by OpenPEPPOL. This maintenance is necessary because CEF did not
169 yet publish a list for usage in EN 16931.

170 Applies to: all Participant identifiers in all PEPPOL components

171   3.2   Identifier Scheme values

172 The values for the initial PEPPOL identifier Scheme Code list were taken from the NESUBL PartyID
173 code list[13] but this has been extended to cover use by all PEPPOL participants and includes other
174 known Identifier Schemes (from e.g. ISO 6523[14]).

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

178   1.   International recognized standard schemes, then

179   2.   International de-facto accepted schemes, then

180   3.   Nationally defined schemes

181 The actual values for numeric International Code Designators were based on the following allocation
182 criteria:

183   1.   ISO 6523 International Code Designator (if known), or

184   2.   ISO 9735 Identification code qualifier (if known), or

185   3.   An incremental number starting from 9900 (issued by PEPPOL)

---

[13] See chapter 2.23:
http://www.nesubl.eu/download/18.6dae77a0113497f158680002577/NES+Code+Lists+and+Identification+Schemes+-+Version+2.pdf
[14] See http://en.wikipedia.org/wiki/ISO_6523

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

189 The normative version of the code list is available at [PEPPOL_CodeList].

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

POLICY 5   Participant Identifier Meta Scheme

194 The PEPPOL Participant Identifier Meta Scheme is:
195 `iso6523-actorid-upis`

196 Applies to: all Participant Identifiers in all PEPPOL components

197 Note: this Meta Scheme is always case sensitive – only the Participant Identifier value is case
198 insensitive (see POLICY 2).

199 Note: the Participant Identifier Meta Scheme may be omitted in documents because it is constant.

POLICY 6   Numeric Codes for Identifier Schemes

201 The numeric ISO 6523 code set as used in PEPPOL include additional code values not part of the
202 official ISO 6523 code set and so cannot be referred to as the official ISO 6523 code set[15]. The codes
203 starting with "99" are extending this code set and are called "extended values". For convenience the
204 term "ISO 6523" is used for all codes and indicates the origin of many code values used.

205 Applies to: all participant identifiers in all PEPPOL components

206 A normative list of all PEPPOL Participant Identifier Schemes and metadata can be found at
207 [PEPPOL_CodeList]. Note: entries marked as deprecated should not be used for newly issued
208 documents, as the respective Participant Identifier Scheme is no longer active/valid. Deprecated
209 scheme IDs may however not be reused for different Participant Identifier Schemes as existing
210 exchanged documents may refer to them.

POLICY 7   Participant Identifiers for DNS

212 Participant identifiers – consisting of scheme and value – are encoded as follows into a DNS name:
213 `B-<hash-of-value>.<scheme>.<SML-zone-name>`

214 Applies to: the resolution of PEPPOL Participant Identifiers for SMP clients

215 Explanation:

<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

---

[15] 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>	Is the identifier scheme value ("iso6523-actorid-upis" in PEPPOL) and is added "as is" into the DNS name[16]. 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>	Is the DNS domain name of the SML zone (e.g. "edelivery.tech.ec.europa.eu." – mind the trailing dot).

216 **Example:**

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

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

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

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

224 The "scheme" attribute must be populated with the value "iso6523-actorid-upis" (see POLICY 5) in all
225 instances of the "ParticipantIdentifier" element.

226 Applies to: XML documents used in the SMP

227 **Example 1:**

228 The following example from an SMP exchange denotes that the SMP Endpoint is identified using the
229 ISO 6523 ICD value in the OpenPEPPOL set of Participant Identifier Schemes. This in turn has a
230 numeric value of `0088` meaning that the party has a GLN number with the value of
231 `7300010000001`.

```
232    <ParticipantIdentifier scheme="iso6523-actorid-upis"
233    >0088:7300010000001</ParticipantIdentifier>
```

234 **Example 2:**

235 The following example denotes that the SMP Endpoint is identified using the ISO 6523 ICD value in
236 the OpenPEPPOL set of Participant Identifier Schemes. This in turn has a numeric value of `0002`
237 meaning that the party has a French SIRENE identifier with the value of `542034942`.

```
238    <ParticipantIdentifier scheme="iso6523-actorid-upis"
239    >0002:542034942</ParticipantIdentifier>
```

---

[16] 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 value".

Extended values starting with "99" as indicated by POLICY 6 MAY be used.

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

Example:

```
<cac:Party>
  <cbc:EndpointID schemeID="0088">7300010000001</cbc:EndpointID>
</cac:Party>
```

POLICY 10   XML attributes for Electronic address IDs in CII documents

The "schemeID" attribute MUST be populated in all instances of the "ram:URIUniversalCommunication/ram:URIID" element when used within a "Party" element. The only valid values are defined in the [PEPPOL_CodeList] as "ICD value".

Extended values starting with "99" as indicated by POLICY 6 MAY be used.

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

Example:

```
<ram:BuyerTradeParty>
  <ram:URIUniversalCommunication>
    <ram:URIID schemeID="0088">7300010000001</ram:URIID>
  </ram:URIUniversalCommunication>
</ram:BuyerTradeParty>
```

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.

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

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 value of `7300010000001`.

```
<Sender>
  <Identifier Authority="iso6523-actorid-
upis">0088:7300010000001</Identifier>
</Sender>
```

Example 2:

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 with the value of `7300010000001`.

```
<Receiver>
```

```
282        <Identifier Authority="iso6523-actorid-upis">0088:7300010000001
283    </Identifier>
284    </Receiver>
```

4 Policy for PEPPOL Party Identification

285

286 Party identification relates to business entities and is only used in business documents.

4.1 Format

287

POLICY 12   Use of ISO15459 structure

288

289 Party Identifier values used in PEPPOL are comprised of:
290 - An optional Identifier Scheme
291 - The value provided by this Identifier Scheme

292 Applies to: all Party identifiers in all PEPPOL components

293 Note: the Identifier Scheme MAY be omitted if it can be reasoned within the context[17].

294 **Example:**

295 Identifier Scheme: EAN International

296 Identifier Scheme according to ISO 6523: `0088`

297 Value provided by the Identifier Scheme: `1234567890128`

POLICY 13   Coding of Identifier Schemes

298

299 All Identifier Scheme for Party Identifiers are to be taken from the normative version of the ISO 6523
300 ICD list.

301 Applies to: all Party identifiers in all PEPPOL components

POLICY 14   XML attributes for Party Identifiers in UBL documents

302

303 The "schemeID" attribute SHOULD be populated in all instances of the "ID" element when used
304 within a "PartyIdentification" element when used within a "Party" element. The only valid values are
305 defined in the [ISO 6523] code list as the numeric "International Code Designator" (ICD) value.
306 Extended values starting with "99" as indicated by POLICY 6 MUST NOT be used.

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

308 Note: the Party Identification is not involved in a PEPPOL Document Exchange – it is contained for
309 business usage only.

310 **Example 1:**

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

```
313      <cac:PartyIdentification>
314        <cbc:ID schemeID="0088">7300010000001</cbc:ID>
315      </cac:PartyIdentification>
```

316 **Example 2:**

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

---

[17] This is e.g. relevant for the PEPPOL Billing BIS to be compliant with EN 16931.

```
319    <cac:PartyIdentification>
320      <cbc:ID schemeID="0002">542034942</cbc:ID>
321    </cac:PartyIdentification>
```

POLICY 15   XML attributes for Party Identifiers in CII documents

323 The "schemeID" attribute SHOULD be populated in all instances of the "ID" element when used
324 within a "PartyIdentification" element when used within a "Party" element. The only valid values are
325 defined in the [ISO 6523] code list as the numeric "International Code Designator" (ICD) value.
326 Extended values starting with "99" as indicated by POLICY 6 MUST NOT be used.

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

328 Note: the Party Identification is not involved in a PEPPOL Document Exchange – it is contained for
329 business usage only.

Example 1:

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

```
333    <ram:BuyerTradeParty>
334      <ram:ID schemeID="0088">7300010000001</ram:ID>
335    </ram:BuyerTradeParty>
```

Example 2:

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

```
339    <ram:BuyerTradeParty>
340      <ram:ID schemeID="0002 ">542034942</ram:ID>
341    </ram:BuyerTradeParty>
```

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 business 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

The PEPPOL document type identifier scheme to be used is:
`busdox-docid-qns`

Applies to: all Document Type Identifiers in all components

Note: this scheme identifier is always case sensitive

POLICY 17 Customization Identifiers

The Customization Identifier is defined in the relevant PEPPOL BIS specification.
A Customization Identifier MUST NOT contain whitespace characters.

Applies to: all Document Type Identifiers in all components

Example 1 (from Billing BIS v3):

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

Example 2 (from Order BIS v2):

```
urn:www.cenbii.eu:transaction:biitrns001:ver2.0:extended:urn:www.peppo
l.eu:bis:peppol3a:ver2.0
```

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.

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

Example (from Billing BIS v3):

382
383
```
<cbc:CustomizationID>urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.
eu:2017:poacc:billing:3.0</cbc:CustomizationID>
```

384 ## POLICY 19 Specifying Customization Identifiers in CII Documents

385
386
387
The value for "//ExchangeDocumentContext/GuidelineSpecifiedDocumentContextParameter/ID"
element in the CII document instance must correspond to the Customization ID of the Document
Type Identifier.

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

389 **CII example (from Billing BIS v3):**

390
391
392
393
394
395
396
397
```
<rsm:ExchangedDocumentContext>
  <ram:GuidelineSpecifiedDocumentContextParameter>
    <ram:ID>
urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing
:3.0
    </ram:ID>
  </ram:GuidelineSpecifiedDocumentContextParameter>
</rsm:ExchangedDocumentContext>
```

398 ## POLICY 20 Document Type Identifier Value pattern

399
400
401
The format of a Document Type Identifier Value is:
`<syntax specific id>##<customization id>::<version>`
`<version>` is used to reflect the version of the underlying format standard (e.g. the UBL version).

402 Applies to: all Document Type Identifiers in all components

403
404
The Document Type Identifier Value pattern is based on a concatenation of a syntax specific
identifier and an optional subtype identifier in the layout:

405 `<syntax specific id>[##<subtype Identifier>]`

406 Everything between "[" and "]" denotes an optional part and `##` is a string literal.

407
408
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:

409 `<document element namespace URI>::<document element local name>`

410 The `<subtype Identifier>` is the combination of customization ID and version.

411 Therefore, the final structure of the pattern is:

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

413
414
When representing document type identifiers in URLs, the document identifier itself will be prefixed
with the scheme identifier (see POLICY 16) following two colons:

415 `<scheme identifier>::<syntax specific id>##<customization id>::<version>`

416 This string must be percent encoded if used in a URL.

417 **Example (from Billing BIS v3):**

418
419
The following example denotes a Document Type that is a UBL 2.1 Invoice conforming to the PEPPOL
Billing BIS v3.

420
421
422
```
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:Invoice-2::Invoice
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

423 POLICY 21 Specifying Document Type Identifiers in SMP documents

424 The value for the "scheme" attribute must be "busdox-docid-qns" (see POLICY 16) and the element
425 value must be the document type identifier itself.

426 Applies to: all XML documents used in the SMP

427 **Example (from Billing BIS v3):**

```
428  <DocumentIdentifier scheme="busdox-docid-qns">
429  urn:oasis:names:specification:ubl:schema:xsd:Invoice-
430  2::Invoice##urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:p
431  oacc:billing:3.0::2.1
432  </DocumentIdentifier>
```

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

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

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

439 **Example:**

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

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

451 POLICY 23 Document Type Identifier Values

452 All valid Document Type Identifier Values are defined in [PEPPOL_CodeList].

453 Applies to: all Document Type Identifiers in all components

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

6 Policy for PEPPOL Process Identifiers

458 Process Identifiers define the orchestrations in which business documents are exchanged. A Process
459 Identifier Value is referenced in a PEPPOL BIS specification as "profile identifier".

460 As outlined in POLICY 2 PEPPOL process identifiers have to be treated case sensitive.

POLICY 24   Process Identifier Scheme

462 The PEPPOL Process Identifier Scheme is:
463 `cenbii-procid-ubl`

464 Applies to: all Process Identifiers in all components

465 Note: this scheme identifier is always case sensitive

POLICY 25   Process Identifier Value

467 All valid Process Identifier Values are defined in [PEPPOL_CodeList].
468 Process Identifier Values MUST NOT contain whitespace characters.

469 Applies to: all Process Identifiers in all components

Example 1 (from Billing BIS v3):

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

Example 2 (from Order BIS v2):

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

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

POLICY 26   Specifying Process Identifiers in the Envelope (SBDH)

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

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

Example:

```
<BusinessScope>
  <Scope>
    <Type>PROCESSID</Type>
    <InstanceIdentifier>
urn:www.cenbii.eu:profile:bii04:ver1.0</InstanceIdentifier>
    <Identifier>cenbii-procid-ubl</Identifier>
  </Scope>
</BusinessScope>
```

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

POLICY 27   Specifying Process Identifiers in SMP documents

494 The value for the scheme attribute should be "cenbii-procid-ubl" (see POLICY 24) and the element
495 value must be the process identifier itself.

496 Applies to: XML documents used in the SMP

497 **Example 1 (CEN/BII):**

498
499
```
<ProcessIdentifier scheme="cenbii-procid-
ubl">urn:www.cenbii.eu:profile:bii03:ver1.0</ProcessIdentifier>
```

500 **Example 2 (CEN/BII2):**

501
502
```
<ProcessIdentifier scheme="cenbii-procid-
ubl">urn:www.cenbii.eu:profile:bii03:ver2.0</ProcessIdentifier>
```

7 Policy on Identifying Transport Profiles in PEPPOL

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.

POLICY 28 Transport Profile Values

All valid Transport Profile Values are defined in [PEPPOL_CodeList].

Applies to: all XML documents used in the SMP

Rows in [PEPPOL_CodeList] marked as "deprecated" should not be used for newly issued documents. 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 29 Specifying Transport Profiles in SMP documents

The Transport Profile identifier must be placed in the "transportProfile" attribute of the SMP "Endpoint" element.
The value of the "transportProfile" attribute is case sensitive.

Applies to: all XML documents used in the SMP

Example 1 (AS2):

```
<Endpoint transportProfile="busdox-transport-as2-ver1p0">
   ...
</Endpoint>
```

Example 2 (AS4 profile v2):

```
<Endpoint transportProfile="peppol-transport-as4-v2_0">
   ...
</Endpoint>
```

8 Governance of this Policy

This policy needs maintenance to ensure it supports new versions of the standards, extensions to other identification schemes, new services etc.

This policy document together with the code lists for Identifier Schemes, Document Type Identifiers, Process Identifiers and Transport Profiles is maintained by the PEPPOL Transport Infrastructure Coordinating Community (TICC).

To ensure sustainability and proper governance of Identifier Schemes it is proposed to include only 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)

4. Nationally defined schemes

It shall be ensured that each Identifier Scheme provider:

1. 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.