



# PEPPOL Identifier Schemes

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*Version 1.0.0*



WP8 2009-12-23



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# 1 Document information

## 1.1 Document history

Date	Version	Initials	Changes
2009-11-26	0.9.0	GS	Created the document
2009-11-27	0.9.5	GS	Added scheme and identifier definitions
2009-12-23	1.0.0	MHB	Added fixes based on Philip Helger's feedback

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## 1 **2 Introduction**

2 This document defines a set of identifier schemes that will be used in the context of the PEPPOL  
3 infrastructure. The PEPPOL infrastructure is an instance of the BUSDOX infrastructure, which is extensible  
4 with respect to the identifier schemes that are supported for participant, document and process identifiers.

5 This document defines two identifier schemes:

- 6 • A scheme for document identifiers which reflect established concepts within CEN/BII. This scheme is  
7 identified by the string “cenbii\_docid\_fci”
- 8 • A scheme for process identifiers. This scheme is identified by the string “cenbii\_procid\_pia”.

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### 10 **2.1.1 Notational conventions**

11 For notational conventions, see “Common Definitions” [BDEN-CDEF]. Notational conventions have been  
12 adopted from [WSDL-2.0] and apply to all BUSDOX Transport Infrastructure Specifications.

### 13 **2.1.2 Normative references**

14 This section only covers references to documents referred to from this document.

15 [BDEN-CDEF] Business Document Exchange Network - Common Definitions, CommonDefinitions.pdf

### 16 **2.1.3 Non-normative references**

17 [WSDL-2.0] "Web Services Description Language (WSDL) Version 2.0 Part 1: Core Language",  
18 <http://www.w3.org/TR/wsdl20/>

## 19 **3 Identifiers**

20 This section defines the identifier schemes.

### 21 **3.1 Notational conventions**

22 For describing the textual format of identifiers, the following conventions are used:

23 *Everything within the curly brackets {} can be substituted by specific values.*

24 *Everything with square brackets [] represents optional content, whether literals or not.*

25 *Everything outside the curly brackets must be treated as literals.*

26 For example, for an identifier with the value “myIdentifier”, the format definition

27 `/myIdentifier/version[/{version number}]`

28 Can be instantiated to either of the strings

29 `/myIdentifier/version`

30 And

31 /myIdentifier/version/1.0

## 32 **3.2 On the use of percent encoding in URLs**

33 When any types of BUSDOX identifiers are used in URLs, each section between slashes MUST be percent  
34 encoded individually, i.e. section by section, according to **Error! Reference source not found.**

35 For example, this implies that for an URL in the form of “/{identifier scheme}::{id}/services/{docType}”, the  
36 slash literals MUST NOT be URL encoded.

## 37 **3.3 On Scheme Identifiers**

38 Any Scheme Identifier that conforms to BUSDOX must take the form  
39 <domain>\_<identifierArea>\_<identifier type>, such as for example “busdox\_actorid\_upis”. This example is  
40 made up of:

- 41 • Domain: BUSDOX
- 42 • Identifier area: Actor Identifiers (‘actorid’)
- 43 • Identifier type: “Universal Participant Identifier Scheme” (‘upis’)

44 See [BDEN-CDEF] for the rules applying to scheme identifiers.

## 45 **3.4 Participant Identifier “isoiec\_actorid\_15459”**

46 This participant identifier scheme represents the ISO/IEC 15459-3 standard for Unique Identifiers of  
47 Participants within an instance of the BUSDOX infrastructure.

### 48 **3.4.1 Identifier format**

49 The identifier format follows the layout in the ISO/IEC 15459-3 specification and must match the following  
50 regular expression:

51 `[a-z][a-z0-9]*_[a-z][a-z0-9]*_[a-z][a-z0-9]*`

### 52 **3.4.2 Scheme identifier**

53 The scheme is identified by the string “isoiec\_actorid\_15459”. It is constructed from the following parts:

- 54 • Domain: ISO/IEC
- 55 • Subject area: Actor Identifiers (‘actorid’)
- 56 • Identifier type: ISO/IEC 15459-3, ‘15459’

## 57 **3.5 Document Identifier “cenbii\_docid\_fci”**

58 This document identifier scheme reflects established concepts within CEN/BII.

### 59 **3.5.1 Identifier format**

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

- 61       • Format Identifier: Identifies the specific syntax of the document that is being exchanged. For XML  
62       documents, the root element namespace ('root NS') and document element local name are  
63       concatenated to represent the syntax of the document.
- 64       • Customization Identifier: Represents a customization of a document, for example a regional  
65       customization of the UBL document format.
- 66       • Version Identifier: Identifies the version of a document, according to the versioning conventions of  
67       that specific document.

68 The format of the document identifier is:

69       [<root NS>::]<document element local name>## <customization id>[::<version>]

70 For documents that do not define a version number, the version part of the identifier is not required.

71 For documents that do not have a namespace for the root element, the first part of the identifier is not  
72 required.

73 Non-normative example:

- 74       • Root Namespace: "urn:oasis:names:specification:ubl:schema:xsd:Order-2"  
75       • Document element local name: "Order"  
76       • Customization ID: "urn:www.cenbii.eu:transaction:biicoretrdm001:ver1.0"  
77       • Version: "2.1"

78 The resulting identifier is:

79       "urn:oasis:names:specification:ubl:schema:xsd:Order-  
80       2::Order##urn:www.cenbii.eu:transaction:biicoretrdm001:ver1.0::2.1".

### 81 **3.5.2 Scheme identifier**

82 The scheme is identified by the string "cenbii\_docid\_fci". It is constructed from the following parts:

- 83       • Domain: CEN/BII ('cenbii')  
84       • Subject area: Document Identifiers ('docid')  
85       • Identifier type: Format ID + Customization ID + Version ID ('fci').

## 86 **3.6 Process identifier "cenbii\_procid\_agreement"**

87 This process identifier scheme reflects established concepts within CEN/BII.

### 88 **3.6.1 Identifier format**

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

- 90       • Process identifier: Identifies a profile definition according to CEN/BII code lists.

- 91       • Agreement identifier: The agreement identifier represents a binding of the process to a specific set of  
92       parameters that may cover the syntactic format of the individual messages, the customization of  
93       the individual documents, and their versions.

94   The format of the process identifier is:

95       <BII profile ID>[::<Agreement ID>]

96   The 'Agreement ID' part is only relevant for profiles where agreement on parameters of that profile exist.

97   Non-normative example:

- 98       • BII profile ID: "urn:www.cenbii.eu:profile:bii06:ver1.0"  
99       • Agreement ID: "AgreementID1234"

100   The resulting identifier is:

101       "urn:www.cenbii.eu:profile:bii06:ver1.0::AgreementID1234".

### 102   **3.6.2 Scheme identifier**

103   This scheme is identified by the string "cenbii\_procid\_pia". It is constructed from the following parts:

- 104       • Domain: CEN/BII ('cenbii')
- 105       • Subject area: Process Identifiers ('procid')
- 106       • Identifier type: Profile identifier with agreement ('pia').

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