

DE4A Policy for the use of identifiers

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Revision History

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			Helger





Statement of originality

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1 Introduction

- 2 This document is heavily based on the Peppol Policy for the use of identifiers 4.1.0 [PEPPOL]. The
- 3 goal is to harmonize the usage of identifiers throughout different networks so that affected entities
- 4 can re-use their identifiers in all networks in similar fashions.

5 1.1 Audience

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- 6 This document describes a DE4A policy and guidelines for use of identifiers within the DE4A network.
- 7 The intended audience for this document are organizations wishing to be DE4A enabled for
- 8 exchanging electronic documents, and/or their ICT-suppliers. More specifically it is addressed
- 9 towards the following roles:
- 10 ICT Architects
- 11 ICT Developers
- 12 Business Experts

13 1.2 References

[DE4A]	http://www.de4a.eu/
[PEPPOL]	https://github.com/OpenPEPPOL/edec-specifications/raw/master/work-in-progress/PEPPOL-EDN-Policy-for-use-of-identifiers-4.1.0-2020-03-11.pdf
[DE4A_CodeLi st]	https://github.com/de4a-wp5/de4a-codelists
[ISO 15459]	http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnum ber=51284
	http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnum ber=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 ebCore]	http://docs.oasis-open.org/ebcore/PartyldType/v1.0/CD03/PartyldType-1.0.html
[RFC3986]	https://datatracker.ietf.org/doc/html/rfc3986
[RFC8141]	https://datatracker.ietf.org/doc/html/rfc8141





2 Introduction to identifiers

- 15 Identifiers are information elements that establish the identity of objects, such as organizations,
- 16 products, places, etc. The DE4A project uses many identifiers in both its transport infrastructure and
- 17 within the documents exchanged across that infrastructure. Two of the significant identifiers are
- those for Parties/Participants (organizations, persons, etc.) and Services (business profiles, document
- 19 types, etc). These are the "who" and the "what" of DE4A business document exchanges.
- 20 This document outlines the policy for using the correct identifiers specifically for these two areas but
- 21 it also introduces principles for any identifiers used in the DE4A environment. Implementers failing to
- adhere to these policies seriously jeopardize the interoperability of the information being exchanged.
- 23 This policy should form a requirement of any DE4A participation agreements.

24 **2.1 Scope**

25 2.1.1 The policy of a federated scheme for identifying Parties²

- Parties in the DE4A Network play the role of Participants. There are sender and receiver Participants
- 27 in any exchange, but the Service Metadata Publisher (SMP) only publishes services defined for the
- 28 receiver Participant. The technical name for this identifier in the DE4A Network is the Participant
- 29 Identifier.

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

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- 39 So, whilst there is a relationship between these various Parties, this policy does not describe how this
- 40 should be done. This policy relates to the common use of different identification schemes to identify
- 41 the appropriate Party within the context required. In other words, identifiers may have different
- values but the method by which they are defined should be consistent.
- 43 Many schemes already exist for identifying Parties. DE4A has no intention of developing yet another.
- Our strategy is to recognize a range of different identification schemes and provide a code list of
- 45 those recognized schemes based on international standards.

2.1.2 The policy for identifying Documents and Services used in the DE4A Network

- 47 The DE4A Network requires a Participant sending a document to identify both the receiving
- 48 Participant and the service that will receive the document. The sender (or their Access Point
- 49 provider) achieves this by searching the Service Metadata Locator (SML) filled Domain Name System
- 50 (DNS) to find the relevant Service Metadata Publisher (SMP) that can identify the endpoint URL³
- 51 within the recipient's Access Point (AP). This endpoint URL is the service address where the
- document is received. Therefore, it is important to define precisely what documents and services can
- 53 be handled by the receiving Participant.

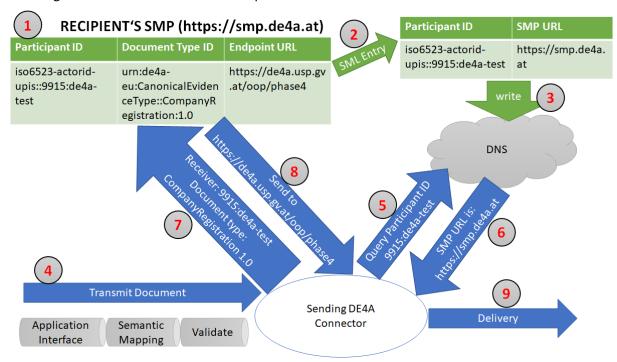
³ Note: the endpoint URL is not the same as the Endpoint ID in the business document.



² 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.



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



2.1.3 Semantic scope

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57 This document covers the following areas:

- Participant identification
 - To identify Parties that are actors in DE4A
- Document type identification
 - To identify Document types and Message types that are exchanged in the DE4A network
- Process identification
 - To identify orchestrations of message exchanges in the DE4A network
- Transport profile identification
 - To identify the technical encoding of exchanged messages in the DE4A network
- 67 Each of them is described below in greater detail.

2.2 Common Policies

POLICY 1 Usage of ISO15459

<u>Participant Identifiers</u> 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 (a-z), numeric digits (0-9), the minus sign (-), the period character (.), the underscore character (_) or the tilde character ($^{\sim}$) from the invariant character set of ISO-8859-1⁴

76 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)

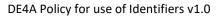
⁴ Based on the unreserved characters of [RFC3986]



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79 80	• MUST only contain characters from the invariant character set of ISO-8859-1
81	Process Identifiers should adhere to the following constraints:
82	■ MUST be at least 1 character long (excluding the identifier scheme)
83	 MUST NOT be more than 200 characters long (excluding the identifier scheme)
84 85	■ MUST only contain characters from the invariant character set of ISO-8859-1
86	<u>Transport Profile Identifiers</u> should adhere to the following constraints:
87	• MUST be at least 1 character long (excluding the identifier scheme)
88	MUST NOT be more than 50 characters long (excluding the identifier scheme)
89	■ MUST only contain letters, numeric digits, the minus sign ('-') or the underscore sign ('_') from the
90	invariant character set of ISO-8859-1
91	Applies to: all above mentioned types of identifiers in all DE4A components
92	POLICY 2 Identifier Value casing
93	All <u>Participant Identifier</u> values have to be treated <u>case insensitive</u> even if the underlying scheme
94	requires a case sensitive value.
95	All <u>Document Type Identifier</u> values have to be treated <u>case sensitive</u> .
96	All Process Identifier values have to be treated case sensitive.
97	All <u>Transport Profile Identifiers</u> have to be treated <u>case sensitive</u> .
98	Applies to: all identifiers in all DE4A components
99	Note: all identifier scheme values are case sensitive (see POLICY 5, POLICY 10 and POLICY 14)
100	Examples:
101	Participant Identifier value "0088:abc" is equal to "0088:ABc"
102	Participant Identifier value "0088:abc" is NOT equal to "0010:abc"
103	
104	Document Type Identifier value
105	CompanyRegistration
106	is NOT equal to
107	COMPANYREGISTRATION
108	
109	Process Identifier value
110	request
111	is NOT equal to





3 Policy for DE4A Participant Identification

- DE4A does not implement its own scheme for identifying Parties. Instead, it supports a federated
- system for uniquely identifying parties following the ISO 15459 format scheme⁵ for unique
- 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
- 118 Code Designators" or "Party ID Type" 10) required by DE4A implementations.
- 119 Each DE4A Party identifier to be used in the federated system is a combination of the Issuing Agency
- 120 Code and the value given by the Issuing Agency.
- Within the content of business documents, each DE4A Participant will be responsible for using the appropriate DE4A Party Identifier.
- 123 This section defines the policies for the formatting and the population of values for Party Identifiers
- used by DE4A.

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125 **3.1 Format**

POLICY 3 Use of ISO15459 structure

- Participant Identifier values used in DE4A are comprised of:
- 128 An Identifier Scheme
- 129 The value provided by this Identifier Scheme
- 130 Applies to: all Participant identifiers in all DE4A components.
- 131 When representing Participant identifiers in URLs, the Participant identifier itself will be prefixed with
- the scheme identifier (see POLICY 5) following two colons:
- 134 This string must be percent encoded if used in a URL.
- 135 Example:
- 136 Identifier Scheme: EAN International
- 137 Identifier Scheme according to [DE4A CodeList]: 0088
- 138 Value provided by the Identifier Scheme: 1234567890128
- 139 Representation in a URL: iso6523-actorid-upis::0088:1234567890128

POLICY 4 Coding of Identifier Schemes

- 141 All Identifier Schemes for Participant Identifiers are to be taken from the normative version of
- 142 [DE4A CodeList].
- 143 This list is currently maintained by DE4A.
- Applies to: all Participant identifiers in all DE4A components



⁵ ISO 15459-4 Individual items, see [ISO 15459]

⁶ ISO 15459 terminology, see [ISO 15459]

⁷ CEN/BII terminology

⁸ ISO 9735 Service Code List (0007) terminology

⁹ ISO 6523 terminology

¹⁰ OASIS ebCore terminology



- _____
- 146 Participant Identifier Scheme is no longer active/valid. Deprecated scheme IDs may however not be

Entries marked as "deprecated" MUST NIT be used for newly issued documents, as the respective

- 147 reused for different Participant Identifier Schemes as existing exchanged documents may refer to
- 148 them.

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3.2 Identifier Scheme values

- 150 The values for the initial DE4A identifier Scheme Code list were taken from the Peppol Identifier
- 151 Scheme code list¹¹ but may be extended to cover use by all DE4A participants and includes other
- 152 known Identifier Schemes.
- 153 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:
- 156 1. International recognized standard schemes, then
- 157 2. International de-facto accepted schemes, then
- 158 3. Nationally defined schemes
- The actual values for numeric International Code Designators were based on the following allocation criteria:
- 161 1. ISO 6523 International Code Designator (if known), or
- 162 2. ISO 9735 Identification code qualifier (if known), or
- 3. An incremental number starting from 9900 (issued by DE4A), According to the ISO 6523
 structure
- 165 Even though these numeric values are based on ISO code sets, they form a separate DE4A code list
- because they contain additional values. Therefore, the Issuing Agency for all numeric codes is DE4A
- 167 and not ISO 6523.

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- 168 The normative version of the code list is available at [DE4A_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
- be reused for different agencies as existing exchanged documents may refer to them.

POLICY 5 Participant Identifier Meta Scheme

- 173 The DE4A Participant Identifier Meta Scheme is:
- 174 iso6523-actorid-upis
- 175 Applies to: all Participant Identifiers in all DE4A components
- 176 Note: this Meta Scheme is always case sensitive only the Participant Identifier value is case
- insensitive (see POLICY 2).
- 178 Note: The Participant Identifier Meta Scheme MAY be omitted in documents because it is constant.

¹¹ Version 7.5 of the Peppol eDelivery Code Lists were used for the initial version of the DE4A Code Lists. See https://docs.peppol.eu/edelivery/codelists/ for the Peppol eDelivery Code Lists.





POLICY 6 Numeric Codes for Identifier Schemes

- The numeric ISO 6523 code set as used in DE4A include additional code values not part of the official
- 181 ISO 6523 code set and so cannot be referred to as the official ISO 6523 code set¹². The codes starting
- with "99" are extending this code set and are called "extended values". For convenience the term
- 183 "ISO 6523" is used for all codes and indicates the origin of many code values used.
- 184 Applies to: all participant identifiers in all DE4A components
- 185 A normative list of all DE4A Participant Identifier Schemes and metadata can be found at
- 186 [DE4A_CodeList].

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POLICY 7 Participant Identifiers for DNS

- Participant identifiers consisting of scheme and value are encoded as follows into a DNS name:
- 189 <hash-of-value>.<scheme>.<SML-zone-name>
- 190 Applies to: the resolution of DE4A Participant Identifiers for SMP clients
- Note: in comparison to Peppol, DE4A uses the OASIS SMP specification v1.

192 Explanation:

<hash-of- value></hash-of- 	Is the Base32 encoding (without padding) of the SHA256 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 SHA256 hash value creation.
	Lowercasing must be performed according to the en_US locale rules (no special character handling).
	Note: it is important, that the SHA256 hash value is generated after the identifier value has been lowercased because according to POLICY 2 participant identifiers have to be treated case insensitive.
<scheme></scheme>	Is the identifier scheme value ("iso6523-actorid-upis" in DE4A) and is added "as is" into the DNS name ¹³ .
	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-< td=""><td>Is the DNS domain name of the SML zone (e.g.</td></sml-zone-<>	Is the DNS domain name of the SML zone (e.g.
name>	"de4a.acc.edelivery.tech.ec.europa.eu." – mind the trailing dot).

Example:

194 The Participant Identifier 0088:123abc with the Meta Scheme iso6523-actorid-upis in the

SML DNS zone de4a.acc.edelivery.tech.ec.europa.eu. is encoded into the following

196 identifier:

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Y7DZFXAF3D4CJZ4KCGRXTEC6TWVCGA4KY7ZWA5B0IF6MSWD4TDRQ.iso6523-actorid-upis.de4a.acc.edelivery.tech.ec.europa.eu.

¹³ Case changes may be done but are not required, as the underlying DNS system is case insensitive.



 $^{^{12}}$ ISO 6523 is currently under revision after a 25 year working period; the new version will meet requirements imposed by technological development.



- The result must be the same if the identifier 0088:123ABC is used, as identifier values are treated case insensitive.
- 201 POLICY 8 XML representation 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.
- 204 Applies to: XML documents used in the SMP
- 205 **Example 1:**
- The following example from an SMP exchange denotes that the SMP Endpoint is identified using the ISO 6523 ICD value in the DE4A 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.
- 211 **Example 2:**
- 212 The following example denotes that the SMP Endpoint is identified using the ISO 6523 ICD value in
- 213 the DE4A 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.
- 217 POLICY 9 XML representation of Actor URNs in DE4A IEM Messages
- 218 The XML representation of Actor URNs MUST used the URL representation of Participant identifiers
- as indicated by POLICY 3.
- 220 Extended values starting with "99" as indicated by POLICY 6 MAY be used.
- 221 Applies to: all business documents used in DE4A following the DE4A IEM
- 222 Example:
- 223 <de4a:AgentUrn>iso6523-actorid-upis::9999:at000000271</de4a:AgentUrn>



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4 Policies on Identifying Document Types supported by DE4A

- 226 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:

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.

Version Identifier

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

POLICY 10 Document Type Identifier scheme

- 236 The DE4A document type identifier scheme to be used is:
- 237 urn:de4a-eu:CanonicalEvidenceType
- 238 Applies to: all Document Type Identifiers in all components
- The identifier scheme is built on top of the URN scheme as described in [RFC8141].
- Note: this scheme identifier is always case sensitive

POLICY 11 Document Type Identifier Value pattern

- The format of a Document Type Identifier Value is:
- 244 Applies to: all Document Type Identifiers in all components
- The Customization ID part MUST consist of the following characters only:
- 246 a-z
- 247 A-Z
- 248 0-9
- 249 Underscore ('_')
- 250 Minus ('-')
- 251 The version part MUST consist of the following characters only:
- 252 **a**-z
- 253 A-Z
- 254 0-9
- 255 Underscore (' ')
- 256 Minus ('-')
- 257 **Dot** ('.')
- 258 When representing document type identifiers in URLs, the document identifier itself will be prefixed
- with the scheme identifier (see POLICY 10) following two colons:
- This string must be percent encoded if used in a URL.
- 262 Example:





The following example denotes a Document Type that is a DE4A Request for company registration

264 1.0.

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urn:de4a-eu:CanonicalEvidenceType::CompanyRegistration:1.0

Customization ID	CompanyRegistration
Version	1.0

266 POLICY 12 Specifying Document Type Identifiers in SMP documents

- The value for the "scheme" attribute MUST be "urn:de4a-eu:CanonicalEvidenceType" (see POLICY 10) and the element value MUST be the document type identifier itself.
- 269 Applies to: all XML documents used in the SMP
- 270 Example:

273 **POLICY 13 Document Type Identifier Values**

- 274 All valid Document Type Identifier Values are defined in [DE4A_CodeList].
- 275 Applies to: all Document Type Identifiers in all components
- 276 Rows in [DE4A_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
- 278 should take this into account when designing and implementing solutions for DE4A services.





5 Policy for DE4A Process Identifiers

- 280 Process Identifiers define the orchestrations in which business documents are exchanged. A Process
- 281 Identifier Value may also be referenced as "profile identifier".
- 282 As outlined in POLICY 2 DE4A process identifiers have to be treated case sensitive.

283 POLICY 14 Process Identifier Scheme

- 284 The DE4A Process Identifier Scheme is:
- 285 urn:de4a-eu:MessageType
- 286 Applies to: all Process Identifiers in all components
- 287 Note: this scheme identifier is always case sensitive

288 POLICY 15 Process Identifier Value

- All valid Process Identifier Values are defined in [DE4A CodeList].
- 290 Process Identifier Values MUST NOT contain whitespace characters.
- 291 Applies to: all Process Identifiers in all components
- 292 Example:
- 293 request
- 294 Rows in [DE4A_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
- 296 should take this into account when designing and implementing solutions for DE4A services.

297 POLICY 16 Specifying Process Identifiers in SMP documents

- The value for the scheme attribute MUST be "urn:de4a-eu:MessageType" (see POLICY 14) and the
- 299 element value MUST be the process identifier itself.
- 300 Applies to: XML documents used in the SMP
- 301 Example:





6 Policy on Identifying Transport Profiles in DE4A

- 305 **6.1 SMP**
- 306 The DE4A Transport Infrastructure supports different transport protocols. Each endpoint registered
- in an SMP is required to provide a transport profile identifying the used transport.

308 POLICY 17 Transport Profile Values

- All valid Transport Profile Values are defined in [DE4A CodeList].
- 310 Applies to: all XML documents used in the SMP
- 311 Rows in [DE4A_CodeList] marked as "deprecated" should not be used for newly issued documents. It
- 312 is important to note that this is a dynamic list. Over time new services will be added. Developers
- 313 should take this into account when designing and implementing solutions for DE4A services.

314 POLICY 18 Specifying Transport Profiles in SMP documents

- The Transport Profile identifier MUST be placed in the "transportProfile" attribute of the SMP
- 316 "Endpoint" element.
- The value of the "transportProfile" attribute is case sensitive.
- 318 Applies to: all XML documents used in the SMP
- 319 Example:
- 320 <Endpoint transportProfile="bdxr-transport-ebms3-as4-v1p0">
- 321 ...
- 322 </Endpoint>





7 Governance of this Policy

- 324 This policy needs maintenance to ensure it supports new versions of the standards, extensions to
- 325 other identification schemes, new services etc.
- 326 This policy document together with the code lists for Identifier Schemes, Document Type Identifiers,
- 327 Process Identifiers and Transport Profiles is maintained by the DE4A Common Components Task
- 328 Force (CCTF).

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- To ensure sustainability and proper governance of Identifier Schemes it is proposed to include only
- 330 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
- 335 It shall be ensured that each Identifier Scheme provider:
 - 1. Recognizes any organisation wishing to allocate unique Party identifiers as part of DE4A. 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 DE4A sustainability programme.

