



European Network of  
Transmission System Operators  
for Electricity

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# WG EDI BEST PRACTICES

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## Table of Contents

3	1	Objective .....	5
4	2	XML instance recommendations .....	5
5	3	Use of local codes in codelist .....	5
6	4	Time .....	6
7	5	Coding scheme identification .....	6
8		<b>List of figures</b>	
9		Figure 1 Example of XML instance with xmlns .....	5
10		Figure 2 – Codelist schema .....	6
11		<b>List of tables</b>	
12		Table 1 - Codelist CodingSchemeType .....	7
13			

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## Revision History

Version	Release	Date	Comments
0	0	2017-01-27	First drafting of the document based on maintenance request from WG EDI.
1	0	2017-02-23	Add comments from WG EDI for Market Committee Approval
1	1	2017-11-08	Delete the recommendation on UUID
2	0	2018-01-15	Draft version of Market Committee approval for publication

32

## 33 1 Objective

34 The purpose of this document is to provide the ENTSO-E WG EDI best practices when using  
35 XML instances.

## 36 2 XML instance recommendations

37 In order to ensure flexibility and independency from local implementation parameters, the  
38 following recommendations are to be applied:

- 39 • When providing an XML instance document to another party, it is recommended that the  
40 schema location instruction (and import of "http://www.w3.org/2001/XMLSchema-instance"  
41 namespace) be not used.
- 42 • A default identification of the default namespace of the document should be provided to use  
43 the identification of the appropriate XML schema, see Figure 1 Example of XML instance  
44 with xmlns

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <Acknowledgement_MarketDocument xmlns="urn:iec62325.351:tc57wg16:451-1:acknowledgementdocument:7:0">
3    <mRID>ACK-SOAM-SWI-RTE-091214-V1</mRID>
4    <createdDateTime>2014-12-10T09:38:30Z</createdDateTime>
5    <sender_MarketParticipant.mRID codingScheme="A01">10XFR-RTE-----Q</sender_MarketParticipant.mRID>
6    <sender_MarketParticipant.marketRole.type>A04</sender_MarketParticipant.marketRole.type>
7    <receiver_MarketParticipant.mRID codingScheme="A01">10XCH-SWISSGRIDC</receiver_MarketParticipant.mRID>
8    <receiver_MarketParticipant.marketRole.type>A04</receiver_MarketParticipant.marketRole.type>
9    <received_MarketDocument.mRID>20141209_SOAM_SGD_RTE</received_MarketDocument.mRID>
10   <received_MarketDocument.revisionNumber>1</received_MarketDocument.revisionNumber>
11   <received_MarketDocument.type>A46</received_MarketDocument.type>
12   <received_MarketDocument.createdDateTime>2014-12-10T09:38:30Z</received_MarketDocument.createdDateTime>
13   <Reason>
14     <code>A01</code>
15   </Reason>
16 </Acknowledgement_MarketDocument>

```

45

46 **Figure 1 Example of XML instance with xmlns**

- 47 • As all XML Schemas created with the European Style Market Profile methodology only use  
48 one namespace, there is no need to define a prefix for this namespace, but it should be  
49 accepted if included.

## 50 3 Use of local codes in codelist

51 ENTSO-E provides a package with XML instance files defining the ENTSO-E codelists and a  
52 empty local extensions to these. This enables ones to define specific local codes to be used  
53 based on bilateral agreement with other parties, e.g. specific market rules for a local market.

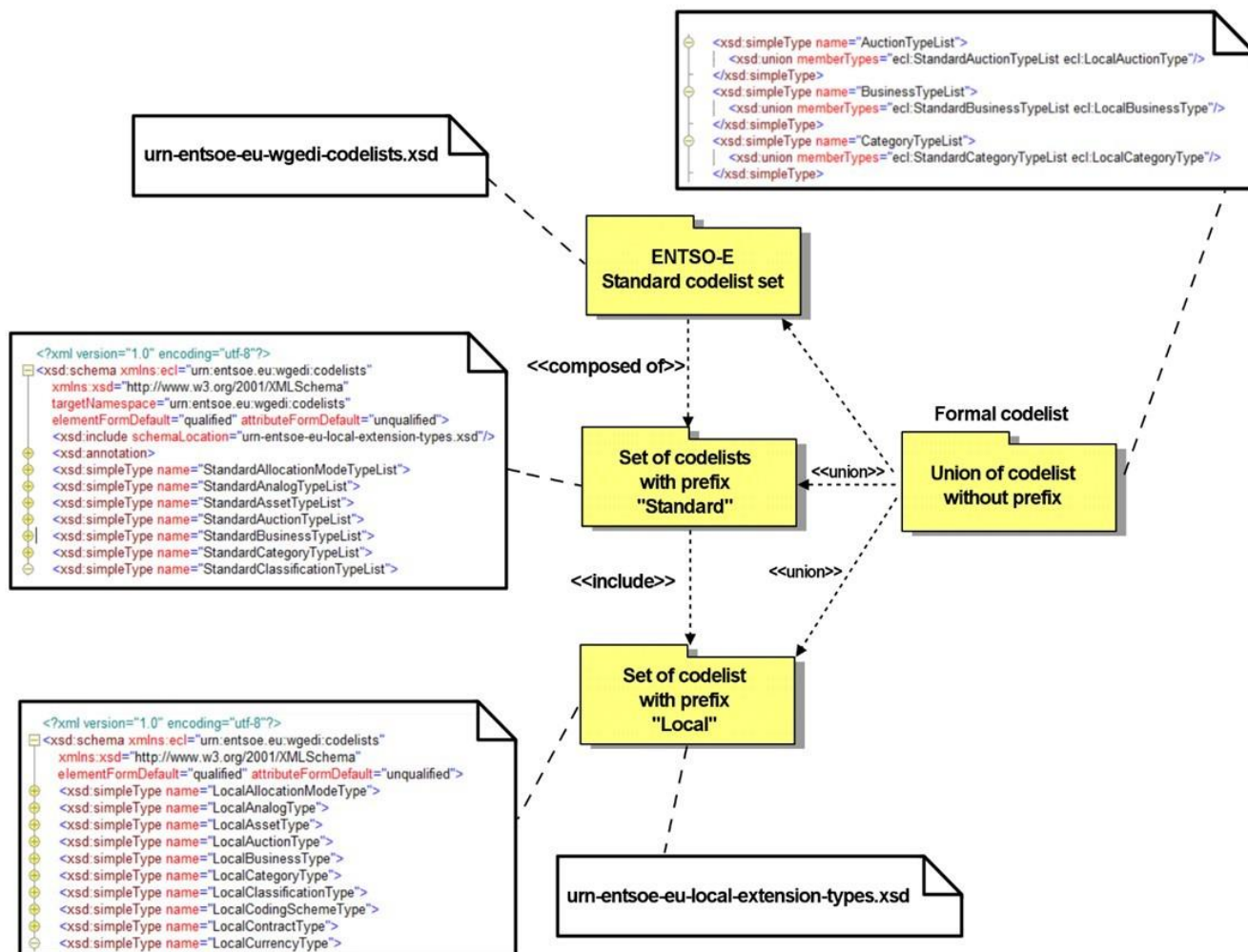
54 As can be seen in Figure 2 the standard codelist set is itself divided into two basic parts:

- 55 a) The list of “standard” codelists that consists of all the codes that have been approved within  
56 WG-EDI.
- 57 b) A list of “local” codelists that are assigned by individual TSOs for internal local market use.  
58 These codes are local to a given market and are managed by the local TSO in order to  
59 satisfy local market constraints. These codes cannot be used outside the market in which  
60 they have been designed.

61 In order to provide a stable core component library, ENTSO-E makes available the library  
62 structure that includes an “empty” local set of codelists. This “empty” set of codelists in fact  
63 contains by default the first “standard” code that can be found within the “standard” codelist.  
64 This ensures that within the value space of the “local” codelist there is no possibility of validating  
65 codes that do not exist. This local codelist schema has a standardised name within the ENTSO-  
66 E environment which is “urn-entsoe-eu-local-extension-types.xsd”.

67 Each TSO then could replace the “empty” local set of codelists with the “local” codelists that  
68 are needed within its local marketplace. It is also the responsibility of the TSO to ensure the  
69 distribution of the “local” codelist to the market participants within the local market area.

70 The ENTSO-E XML schema environment “merges” the two codelist sets in order to provide at  
71 the electronic document level the complete set of codes possible (i.e. the union of the “standard”  
72 and “local” codes).



73  
74 **Figure 2 – Codelist schema**

75 **4 Time**

76 The following rules are to be used concerning the time:

- 77 • All the dates and times within the MarketDocument shall be expressed in coordinated  
78 universal time (UTC) in compliance with ISO 8601 as YYYY-MM-DDThh:mm:ssZ.
- 79 • For all time intervals, the start date and time is included in the scope of the interval whereas  
80 the end date and time is excluded from the scope of the interval, i.e. [start date and time,  
81 end date and time[.
- 82 • For all time intervals, the start date and time as well as the end date and time are expressed  
83 in coordinated universal time (UTC) in compliance with ISO 8601 but without the seconds,  
84 i.e. as YYYY-MM-DDThh:mmZ.

85 **5 Coding scheme identification**

86 Whenever a coded value within a MarketDocument is associated with a coding scheme, the  
87 coding scheme shall always be identified. The coding scheme is an independent facet of an

88 attribute with a size of 3 alphanumeric characters. The coding scheme is provided in Table 1 -  
89 Codelist CodingSchemeType are available in the ENTSO-E codelist.

90 **Table 1 - Codelist CodingSchemeType**

Code	Title	Description
A01	EIC	The coding scheme is the Energy Identification Coding Scheme (EIC), maintained by ENTSO-E.
A02	CGM	The coding scheme used for Common Grid Model Exchange Standard (CGMES).
A10	GS1	The coding scheme for the preceding attribute is the Global Location Number (GLN 13) or Global Service Relation Number (GSRN 18), maintained by GS1.
NAD	Andorra National coding scheme	The National coding scheme of the country in question.
NAL	Albania National coding scheme	The National coding scheme of the country in question.
NAM	Armenia National coding scheme	The National coding scheme of the country in question.
NAT	Austria National coding scheme	The National coding scheme of the country in question.
NAZ	Azerbaijan National coding scheme	The National coding scheme of the country in question.
NBA	Bosnia and Herzegovina National coding scheme	The National coding scheme of the country in question.
NBE	Belgium National coding scheme	The National coding scheme of the country in question.
NBG	Bulgaria National coding scheme	The National coding scheme of the country in question.
NCH	Switzerland National coding scheme	The National coding scheme of the country in question.
NCS	Serbia and Montenegro National coding scheme	The National coding scheme of the countries in question.
NCZ	Czech Republic National coding scheme	The National coding scheme of the country in question.
NDE	Germany National coding scheme	The National coding scheme of the country in question.
NDK	Denmark National coding scheme	The National coding scheme of the country in question.
NEE	Estonia National coding scheme	The National coding scheme of the country in question.
NES	Spain National coding scheme	The National coding scheme of the country in question.
NFI	Finland National coding scheme	The National coding scheme of the country in question.
NFR	France National coding scheme	The National coding scheme of the country in question.
NGB	United Kingdom National coding scheme	The National coding scheme of the country in question.
NGE	Georgia National coding scheme	The National coding scheme of the country in question.

<b>Code</b>	<b>Title</b>	<b>Description</b>
NGI	Gibraltar National coding scheme	The National coding scheme of the country in question.
NGR	Greece National coding scheme	The National coding scheme of the country in question.
NHR	Croatia National coding scheme	The National coding scheme of the country in question.
NHU	Hungary National coding scheme	The National coding scheme of the country in question.
NIE	Ireland National coding scheme	The National coding scheme of the country in question.
NIT	Italy National coding scheme	The National coding scheme of the country in question.
NKG	Kyrgyzstan National coding scheme	The National coding scheme of the country in question.
NKZ	Kazakhstan National coding scheme	The National coding scheme of the country in question.
NLI	Liechtenstein National coding scheme	The National coding scheme of the country in question.
NLT	Lithuania National coding scheme	The National coding scheme of the country in question.
NLU	Luxembourg National coding scheme	The National coding scheme of the country in question.
NLV	Latvia National coding scheme	The National coding scheme of the country in question.
NMA	Morocco National coding scheme	The National coding scheme of the country in question.
NMD	Moldavia National coding scheme	The National coding scheme of the country in question.
NMK	Macedonia National coding scheme	The National coding scheme of the country in question.
NNL	Netherlands National coding scheme	The National coding scheme of the country in question.
NNN	Nordic Regional coding scheme	The coding scheme of the Nordic region which covers Denmark, Finland, Norway and Sweden.
NNO	Norway National coding scheme	The National coding scheme of the country in question.
NPL	Poland National coding scheme	The National coding scheme of the country in question.
NPT	Portugal National coding scheme	The National coding scheme of the country in question.
NRO	Romania National coding scheme	The National coding scheme of the country in question.
NRU	Russian Federation National coding scheme	The National coding scheme of the country in question.
NSE	Sweden National coding scheme	The National coding scheme of the country in question.
NSI	Slovenia National coding scheme	The National coding scheme of the country in question.
NSK	Slovakia National coding scheme	The National coding scheme of the country in question.



<b>Code</b>	<b>Title</b>	<b>Description</b>
NTR	Turkey National coding scheme	The National coding scheme of the country in question.
NUA	Ukraine National coding scheme	The National coding scheme of the country in question.

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