



European Network of
Transmission System Operators
for Electricity

EIC DOCUMENT UML MODEL AND SCHEMA

2021-09-15
APPROVED DOCUMENT
VERSION 1.0

2

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Revision History

Version	Release	Date	Comments
1	0	2021-09-15	First draft of the document. Updates in schema 'iec62325-451-n-eiccode_v1_1.xsd': <ul style="list-style-type: none">maxLength of VATCode_String type was enlarged to 25 characters. Approved by MC.

53

54 **Objective**

55 The purpose of this document is to provide the contextual and assembly UML models and the
56 schema of the EIC_MarketDocument.

57 The schema of the EIC_MarketDocument could be used in various business processes.

58 It is not the purpose of this document to describe all the use cases, sequence diagrams,
59 business processes, etc. for which this schema is to be used.

60 This document shall only be referenced in an implementation guide of a specific business
61 process. The content of the business process implementation guide shall be as follows:

- 62 • Description of the business process;
- 63 • Use case of the business process;
- 64 • Sequence diagrams of the business process;
- 65 • List of the schema (XSD) to be used in the business process and versions of the
66 schema;
- 67 • For each schema, dependency tables providing the necessary information for the
68 generation of the XML instances, i.e. when the optional attributes are to be used, which
69 codes from which ENTSO-E codelist are to be used.

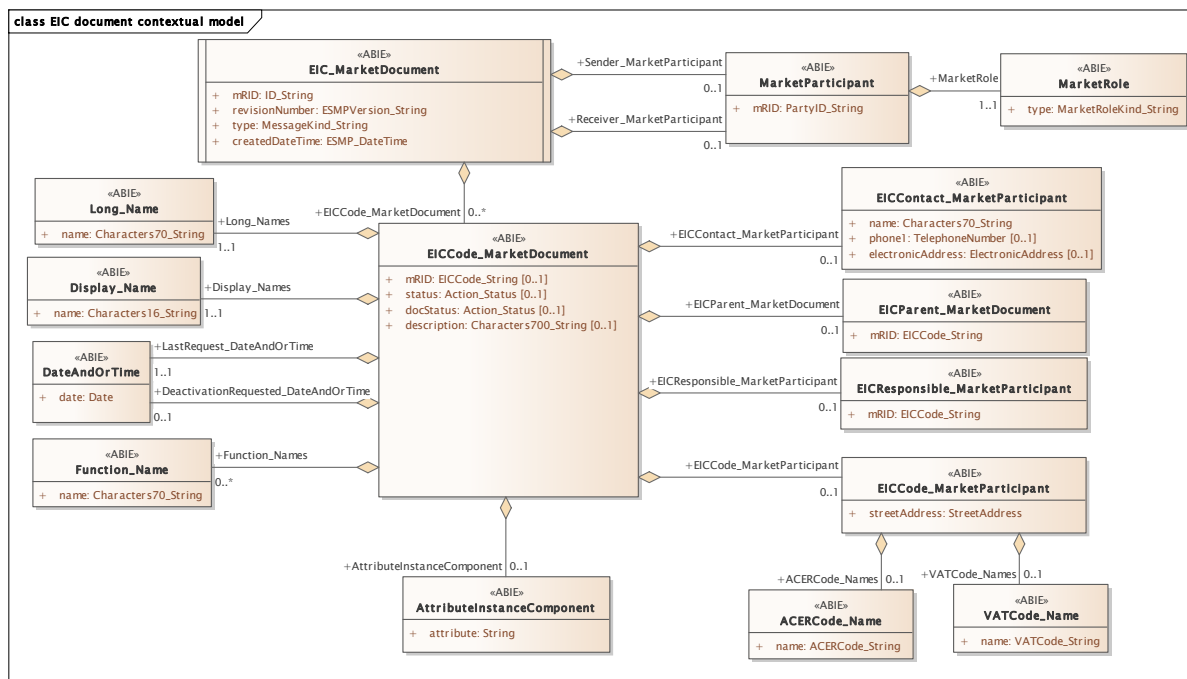
70

71 **EIC_MarketDocument**

72 **2.1 EIC document contextual model**

73 **2.1.1 Overview of the model**

74 Figure 1 shows the model.



75

76

77

Figure 1 - EIC document contextual model

78

79 **2.1.2 IsBasedOn relationships from the European style market profile**

80 Table 1 shows the traceability dependency of the classes used in this package towards the
81 upper level.

82

Table 1 - IsBasedOn dependency

Name	Complete IsBasedOn Path
ACERCode_Name	TC57CIM::IEC61970::Base::Core::Name
AttributeInstanceComponent	TC57CIM::IEC62325::MarketManagement::AttributeInstanceComponent
DateAndOrTime	TC57CIM::IEC62325::MarketManagement::DateAndOrTime
Display_Name	TC57CIM::IEC61970::Base::Core::Name
EIC_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
EICCode_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
EICCode_MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
EICContact_MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
EICParent_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
EICResponsible_MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
Function_Name	TC57CIM::IEC61970::Base::Core::Name
Long_Name	TC57CIM::IEC61970::Base::Core::Name
MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
MarketRole	TC57CIM::IEC62325::MarketCommon::MarketRole
VATCode_Name	TC57CIM::IEC61970::Base::Core::Name

83

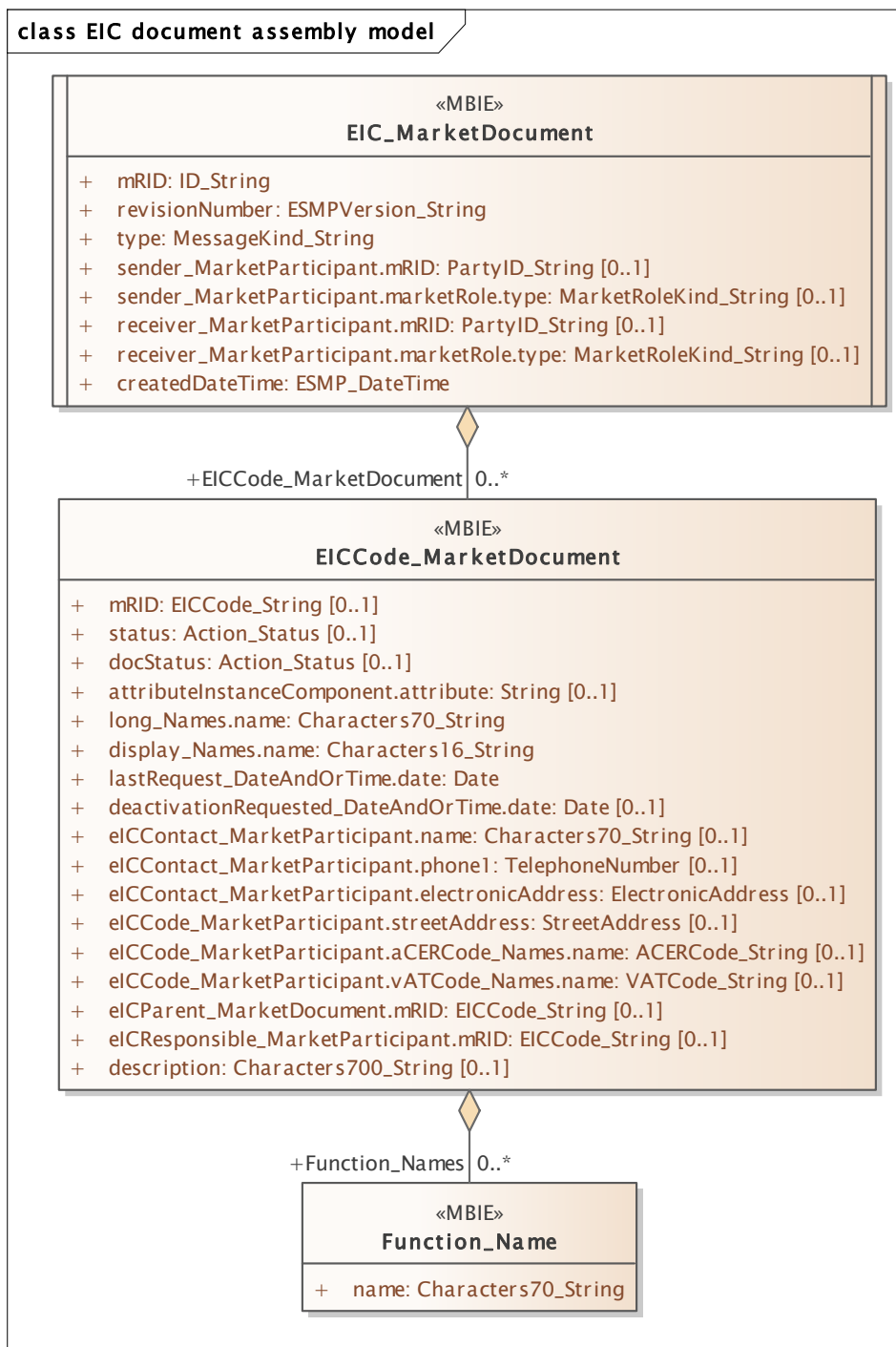
84

85

86 2.2 EIC document assembly model

87 2.2.1 Overview of the model

88 Figure 2 shows the model.



89

90

91

Figure 2 - EIC document assembly model

92

93 **2.2.2 IsBasedOn relationships from the European style market profile**

94 Table 2 shows the traceability dependency of the classes used in this package towards the
95 upper level.

96

Table 2 - IsBasedOn dependency

Name	Complete IsBasedOn Path
EIC_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
EICCode_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Function_Name	TC57CIM::IEC61970::Base::Core::Name

97

98 **2.2.3 Detailed EIC document assembly model**

99 **2.2.3.1 EIC_MarketDocument root class**

100 An electronic document containing the information necessary to satisfy the requirements of a
101 given business process.

102 Table 3 shows all attributes of EIC_MarketDocument.

103

Table 3 - Attributes of EIC document assembly model::EIC_MarketDocument

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	mRID ID_String	The unique identification of the document being exchanged within a business process flow.
1	[1..1]	revisionNumber ESMPVersion_String	The identification of the version that distinguishes one evolution of a document from another.
2	[1..1]	type MessageKind_String	The coded type of a document. The document type describes the principal characteristic of the document.
3	[0..1]	sender_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The sender of the document.
4	[0..1]	sender_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The sender of the document.
5	[0..1]	receiver_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The recipient of the document.
6	[0..1]	receiver_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The recipient of the document.
7	[1..1]	createdDateTime ESMP_DateTime	The date and time of the creation of the document.

104

105 Table 4 shows all association ends of EIC_MarketDocument with other classes.

106 **Table 4 - Association ends of EIC document assembly model::EIC_MarketDocument**
107 **with other classes**

Order	mult.	Class name / Role	Description
8	[0..*]	EICCode_MarketDocument EICCode_MarketDocument	The information on the EIC code. Association Based On: EIC document contextual model::EICCode_MarketDocument.EICCode_MarketDocument[0..*] ----- EIC document contextual model::EIC_MarketDocument.[]

108

109 **2.2.3.2 EICCode_MarketDocument**

110 A document describing the EIC code, which identification is provided in the mRID attribute.

111 An electronic document containing the information necessary to satisfy the requirements of a
112 given business process.

113 Table 5 shows all attributes of EICCode_MarketDocument.

114 **Table 5 - Attributes of EIC document assembly model::EICCode_MarketDocument**

Order	mult.	Attribute name / Attribute type	Description
0	[0..1]	mRID EICCode_String	The EIC code that is managed in the process (creation, update, deactivation, reactivation, publication).
1	[0..1]	status Action_Status	The action requested to be carried out, e.g. creation of the EIC code, update, deactivation, reactivation. Status of subject matter (e.g., Agreement, Work) this document represents. For status of the document itself, use 'docStatus' attribute.
2	[0..1]	docStatus Action_Status	The status of the EIC code document, i.e. active or inactive. This status is for publication information. The identification of the condition or position of the document with regard to its standing.
3	[0..1]	attributeInstanceComponent.attribute String	The identification of an EIC code either as local EIC code or international EIC code in order to keep either locally or to send to the central registry. The identification of an attribute for a given request component. --- This attribute states if the EIC code is either a local EIC code or an international EIC code. The default value is that the EIC code is a local EIC code; thus "no value" attribute means that the code is a local EIC code.
4	[1..1]	long_Names.name Characters70_String	Any free text that name the object. --- The long name or the "full" name of the EIC party or object being identified by the EIC code.
5	[1..1]	display_Names.name Characters16_String	Any free text that name the object. --- The display name or short name to be used on displays.
6	[1..1]	lastRequest_DateAndOrTime.date Date	The date as "YYYY-MM-DD", which conforms with ISO 8601. --- Date of the request

Order	mult.	Attribute name / Attribute type	Description
7	[0..1]	deactivationRequested_DateAndOrTime.date Date	The date as "YYYY-MM-DD", which conforms with ISO 8601. --- Date when the deactivation will be done.
8	[0..1]	eICContact_MarketParticipant.name Characters70_String	The name is any free human readable and possibly non unique text naming the object. --- The information about the contact person for the EIC code.
9	[0..1]	eICContact_MarketParticipant.phone1 TelephoneNumber	Phone number. --- The information about the contact person for the EIC code.
10	[0..1]	eICContact_MarketParticipant.electronicAddress ElectronicAddress	Electronic address. --- The information about the contact person for the EIC code.
11	[0..1]	eICCode_MarketParticipant.streetAddress StreetAddress	Street address when the EIC code is the one of a market participant, i.e. company.. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT number, identification code.
12	[0..1]	eICCode_MarketParticipant.aCERCode_Names.name ACERCode_String	Any free text that name the object. The other codes that may be used to identify an entity. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT number, identification code. --- The ACER code associated to the EIC code of the market participant.
13	[0..1]	eICCode_MarketParticipant.vATCode_Names.name VATCode_String	Any free text that name the object. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT number, identification code. --- The VAT number or identification code associated with the EIC code of the market participant.
14	[0..1]	eICParent_MarketDocument.mRID EICCode_String	The identification of the parent for the EIC code (hierarchical description). For a market participant, the parent is the mother company. For the areas, the parent provides information about aggregation, e.g. a control block is composed of control areas, etc. --- The EIC code of the parent (market participant, area, resource object, etc.) of the EIC code.
15	[0..1]	eICResponsible_MarketParticipant.mRID EICCode_String	The identification of a party in the energy market. --- The party responsible of the object identified by the EIC code (mRID attribute).
16	[0..1]	description Characters700_String	The description of the EIC code. The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.

115

116 Table 6 shows all association ends of EICCode_MarketDocument with other classes.

117
118

Table 6 - Association ends of EIC document assembly model::EICCode_MarketDocument with other classes

Order	mult.	Class name / Role	Description
17	[0..*]	Function_Name Function_Names	All function names of this identified object. Association Based On: EIC document contextual model::Function_Name.Function_Names[0..*] ----- EIC document contextual model::EICCode_MarketDocument.[]

119

120 **2.2.3.3 Function_Name**

121 The Name class provides the means to define any number of human readable names for an
122 object. A name is **not** to be used for defining inter-object relationships. For inter-object
123 relationships instead use the object identification 'mRID'.

124 Table 7 shows all attributes of Function_Name.

125 **Table 7 - Attributes of EIC document assembly model::Function_Name**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	name Characters70_String	For the EIC code, the list of functions. Any free text that name the object.

126

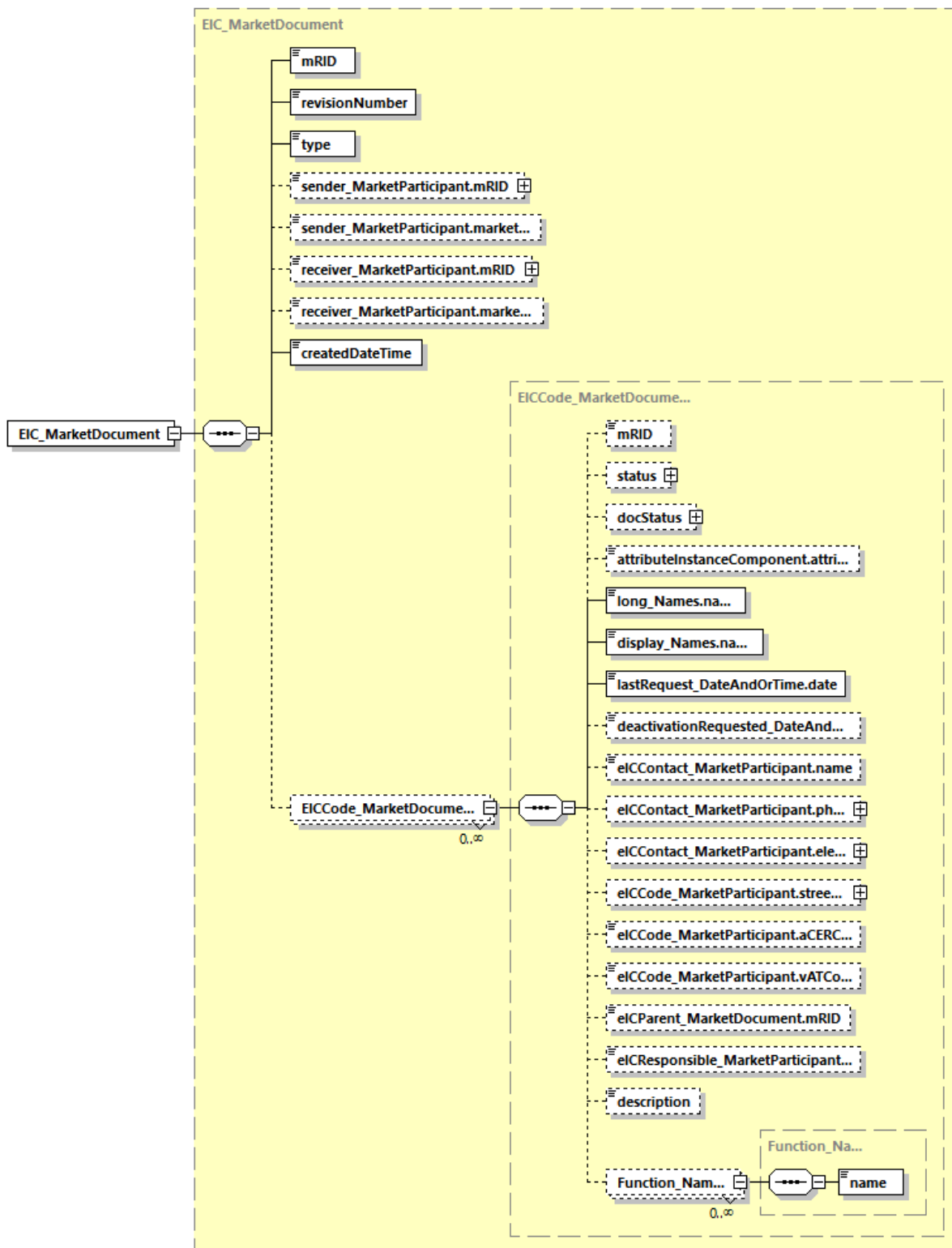
127 **2.2.4 Datatypes**

128 The list of datatypes used for the EIC document assembly model is as follows:

- 129 • Action_Status compound
- 130 • ElectronicAddress compound
- 131 • StreetAddress compound
- 132 • StreetDetail compound
- 133 • TelephoneNumber compound
- 134 • TownDetail compound
- 135 • ACERCode_String datatype
- 136 • Characters10_String datatype
- 137 • Characters15_String datatype
- 138 • Characters16_String datatype
- 139 • Characters2_String datatype
- 140 • Characters35_String datatype
- 141 • Characters70_String datatype
- 142 • Characters700_String datatype
- 143 • EICCode_String datatype
- 144 • ESMP_DateTime datatype
- 145 • ESMPVersion_String datatype
- 146 • ID_String datatype

- 147 • MarketRoleKind_String datatype, codelist RoleTypeList
- 148 • MessageKind_String datatype, codelist MessageTypeList
- 149 • PartyID_String datatype, codelist CodingSchemeTypeList
- 150 • Status_String datatype, codelist StatusTypeList
- 151 • VATCode_String datatype
- 152

153 2.2.5 EIC_MarketDocument XML schema structure



Generated by XMLSpy

www.altova.com

Figure 3 - EIC_MarketDocument schema structure

154
155

156 2.2.6 EIC_MarketDocument XML schema

157

158 The schema to be used to validate XML instances is to be identified by:

159 urn:iec62325.351:tc57wg16:451-n:eicdocument:1:1

```

160 <?xml version="1.0" encoding="utf-8"?>
161 <xs:schema xmlns:ecl="urn:entsoe.eu:wgedi:codelists"
162 xmlns="urn:iec62325.351:tc57wg16:451-n:eicdocument:1:1"
163 xmlns:sawsdl="http://www.w3.org/ns/sawsdl"
164 xmlns:cimp="http://www.iec.ch/cimprofile"
165 xmlns:xs="http://www.w3.org/2001/XMLSchema"
166 targetNamespace="urn:iec62325.351:tc57wg16:451-n:eicdocument:1:1"
167 elementFormDefault="qualified" attributeFormDefault="unqualified">
168   <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-
169 entsoe-eu-wgedi-codelists.xsd"/>
170   <xs:element name="EIC_MarketDocument" type="EIC_MarketDocument"/>
171   <xs:simpleType name="ID_String"
172 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
173     <xs:restriction base="xs:string">
174       <xs:maxLength value="60"/>
175     </xs:restriction>
176   </xs:simpleType>
177   <xs:simpleType name="ESMPVersion_String"
178 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
179     <xs:restriction base="xs:string">
180       <xs:pattern value="[1-9]([0-9]){0,2}"/>
181     </xs:restriction>
182   </xs:simpleType>
183   <xs:simpleType name="MessageKind_String"
184 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
185     <xs:restriction base="ecl:MessageTypeList"/>
186   </xs:simpleType>
187   <xs:simpleType name="PartyID_String-base"
188 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
189     <xs:restriction base="xs:string">
190       <xs:maxLength value="16"/>
191     </xs:restriction>
192   </xs:simpleType>
193   <xs:complexType name="PartyID_String"
194 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
195     <xs:simpleContent>
196       <xs:extension base="PartyID_String-base">
197         <xs:attribute name="codingScheme"
198 type="ecl:CodingSchemeTypeList" use="required"/>
199       </xs:extension>
200     </xs:simpleContent>
201   </xs:complexType>
202   <xs:simpleType name="MarketRoleKind_String"
203 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
204     <xs:restriction base="ecl:RoleTypeList"/>
205   </xs:simpleType>
206   <xs:simpleType name="ESMP_DateTime"
207 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
208     <xs:restriction base="xs:dateTime">

```

```

209         <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02]))[\-](0[1-
210 9]|[12][0-9]|3[01])|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|12)[0-
211 9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-
212 9])Z)|((([13579][26][02468][048]|13579)[01345789](0)[48]|13579)[01345789][2468][0
213 48]|02468)[048][02468][048]|02468)[1235679](0)[48]|02468)[1235679][2468][048]|([
214 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-
215 5][0-9]:[0-5][0-
216 9])Z)|((([13579][26][02468][1235679]|13579)[01345789](0)[01235679]|13579)[0134578
217 9][2468][1235679]|02468)[048][02468][1235679]|02468)[1235679](0)[01235679]|0246
218 8)[1235679][2468][1235679]|0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
219 9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])Z)"/>
220     </xs:restriction>
221 </xs:simpleType>
222 <xs:complexType name="EIC_MarketDocument"
223 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">
224     <xs:sequence>
225         <xs:element name="mRID" type="ID_String" minOccurs="1"
226 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
227 cim16#IdentifiedObject.mRID"/>
228         <xs:element name="revisionNumber" type="ESMPVersion_String"
229 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
230 schema-cim16#Document.revisionNumber"/>
231         <xs:element name="type" type="MessageKind_String" minOccurs="1"
232 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
233 cim16#Document.type"/>
234         <xs:element name="sender_MarketParticipant.mRID"
235 type="PartyID_String" minOccurs="0" maxOccurs="1"
236 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
237 cim16#IdentifiedObject.mRID"/>
238         <xs:element name="sender_MarketParticipant.marketRole.type"
239 type="MarketRoleKind_String" minOccurs="0" maxOccurs="1"
240 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
241         <xs:element name="receiver_MarketParticipant.mRID"
242 type="PartyID_String" minOccurs="0" maxOccurs="1"
243 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
244 cim16#IdentifiedObject.mRID"/>
245         <xs:element name="receiver_MarketParticipant.marketRole.type"
246 type="MarketRoleKind_String" minOccurs="0" maxOccurs="1"
247 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
248         <xs:element name="createdDateTime" type="ESMP_DateTime"
249 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
250 schema-cim16#Document.createdDateTime"/>
251         <xs:element name="EICCode_MarketDocument"
252 type="EICCode_MarketDocument" minOccurs="0" maxOccurs="unbounded"
253 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
254 cim16#MarketDocument.EICCode_MarketDocument"/>
255     </xs:sequence>
256 </xs:complexType>
257 <xs:simpleType name="EICCode_String"
258 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
259     <xs:restriction base="xs:string">
260         <xs:length value="16"/>
261         <xs:pattern value="([A-Z0-9]{2}([A-Z0-9]|[-]){13})[A-Z0-9]"/>
262     </xs:restriction>
263 </xs:simpleType>

```



```

264     <xs:simpleType name="Characters70_String"
265 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
266     <xs:restriction base="xs:string">
267         <xs:maxLength value="70"/>
268     </xs:restriction>
269 </xs:simpleType>
270     <xs:simpleType name="Characters16_String"
271 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
272     <xs:restriction base="xs:string">
273         <xs:maxLength value="16"/>
274         <xs:pattern value="([A-Z\-\+\_0-9]+)/">
275     </xs:restriction>
276 </xs:simpleType>
277     <xs:simpleType name="ACERCode_String"
278 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
279     <xs:restriction base="xs:string">
280         <xs:length value="12"/>
281         <xs:pattern value="([A-Za-z0-9_]+\.[A-Z][A-Z])"/>
282     </xs:restriction>
283 </xs:simpleType>
284     <xs:simpleType name="VATCode_String"
285 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
286     <xs:restriction base="xs:string">
287         <xs:maxLength value="25"/>
288         <xs:pattern value="([A-Z0-9]+)/">
289     </xs:restriction>
290 </xs:simpleType>
291     <xs:simpleType name="Characters700_String"
292 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
293     <xs:restriction base="xs:string">
294         <xs:maxLength value="700"/>
295     </xs:restriction>
296 </xs:simpleType>
297     <xs:simpleType name="Status_String"
298 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
299     <xs:restriction base="ecl:StatusTypeList"/>
300 </xs:simpleType>
301     <xs:complexType name="Action_Status"
302 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Status">
303     <xs:sequence>
304         <xs:element name="value" type="Status_String" minOccurs="1"
305 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
306 cim16#Status.value"/>
307     </xs:sequence>
308 </xs:complexType>
309     <xs:complexType name="StreetDetail"
310 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#StreetDetail">
311     <xs:sequence>
312         <xs:element name="addressGeneral" type="Characters70_String"
313 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
314 schema-cim16#StreetDetail.addressGeneral"/>
315         <xs:element name="addressGeneral2" type="Characters70_String"
316 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
317 schema-cim16#StreetDetail.addressGeneral2"/>

```

```

318         <xs:element name="addressGeneral3" type="Characters70_String"
319 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
320 schema-cim16#StreetDetail.addressGeneral3"/>
321         <xs:element name="floorIdentification" type="xs:string"
322 minOccurs="1" maxOccurs="1"/>
323     </xs:sequence>
324 </xs:complexType>
325 <xs:simpleType name="Characters10_String"
326 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
327     <xs:restriction base="xs:string">
328         <xs:maxLength value="10"/>
329     </xs:restriction>
330 </xs:simpleType>
331 <xs:simpleType name="Characters35_String"
332 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
333     <xs:restriction base="xs:string">
334         <xs:maxLength value="35"/>
335     </xs:restriction>
336 </xs:simpleType>
337 <xs:simpleType name="Characters2_String"
338 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
339     <xs:restriction base="xs:string">
340         <xs:length value="2"/>
341         <xs:pattern value="[A-Z]*"/>
342     </xs:restriction>
343 </xs:simpleType>
344 <xs:complexType name="TownDetail"
345 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TownDetail">
346     <xs:sequence>
347         <xs:element name="name" type="Characters35_String"
348 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
349 schema-cim16#TownDetail.name"/>
350         <xs:element name="country" type="Characters2_String"
351 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
352 schema-cim16#TownDetail.country"/>
353     </xs:sequence>
354 </xs:complexType>
355 <xs:complexType name="StreetAddress"
356 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#StreetAddress">
357     <xs:sequence>
358         <xs:element name="streetDetail" type="StreetDetail"
359 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
360 schema-cim16#StreetAddress.streetDetail"/>
361         <xs:element name="postalCode" type="Characters10_String"
362 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
363 schema-cim16#StreetAddress.postalCode"/>
364         <xs:element name="townDetail" type="TownDetail" minOccurs="1"
365 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
366 cim16#StreetAddress.townDetail"/>
367         <xs:element name="language" type="xs:string" minOccurs="0"
368 maxOccurs="1"/>
369     </xs:sequence>
370 </xs:complexType>
371 <xs:complexType name="ElectronicAddress"
372 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
373 cim16#ElectronicAddress">

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374         <xs:sequence>
375             <xs:element name="email1" type="Characters70_String"
376 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
377 schema-cim16#ElectronicAddress.email1"/>
378         </xs:sequence>
379     </xs:complexType>
380     <xs:simpleType name="Characters15_String"
381 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
382         <xs:restriction base="xs:string">
383             <xs:maxLength value="15"/>
384         </xs:restriction>
385     </xs:simpleType>
386     <xs:complexType name="TelephoneNumber"
387 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TelephoneNumber">
388         <xs:sequence>
389             <xs:element name="ituPhone" type="Characters15_String"
390 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
391 schema-cim16#TelephoneNumber.ituPhone"/>
392         </xs:sequence>
393     </xs:complexType>
394     <xs:complexType name="EICCode_MarketDocument"
395 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">
396         <xs:sequence>
397             <xs:element name="mRID" type="EICCode_String" minOccurs="0"
398 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
399 cim16#IdentifiedObject.mRID"/>
400             <xs:element name="status" type="Action_Status" minOccurs="0"
401 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
402 cim16#Document.status"/>
403             <xs:element name="docStatus" type="Action_Status" minOccurs="0"
404 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
405 cim16#Document.docStatus"/>
406             <xs:element name="attributeInstanceComponent.attribute"
407 type="xs:string" minOccurs="0" maxOccurs="1"
408 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
409 cim16#AttributeInstanceComponent.attribute"/>
410             <xs:element name="long_Names.name" type="Characters70_String"
411 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
412 schema-cim16#Name.name"/>
413             <xs:element name="display_Names.name"
414 type="Characters16_String" minOccurs="1" maxOccurs="1"
415 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
416             <xs:element name="lastRequest_DateAndOrTime.date"
417 type="xs:date" minOccurs="1" maxOccurs="1"
418 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
419 cim16#DateAndOrTime.date"/>
420             <xs:element name="deactivationRequested_DateAndOrTime.date"
421 type="xs:date" minOccurs="0" maxOccurs="1"
422 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
423 cim16#DateAndOrTime.date"/>
424             <xs:element name="eICContact_MarketParticipant.name"
425 type="Characters70_String" minOccurs="0" maxOccurs="1"
426 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
427 cim16#IdentifiedObject.name"/>
428             <xs:element name="eICContact_MarketParticipant.phone1"
429 type="TelephoneNumber" minOccurs="0" maxOccurs="1"

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430 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
431 cim16#Organisation.phone1"/>
432 <xs:element
433 name="eICContact_MarketParticipant.electronicAddress" type="ElectronicAddress"
434 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
435 schema-cim16#Organisation.electronicAddress"/>
436 <xs:element name="eICCode_MarketParticipant.streetAddress"
437 type="StreetAddress" minOccurs="0" maxOccurs="1"
438 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
439 cim16#Organisation.streetAddress"/>
440 <xs:element
441 name="eICCode_MarketParticipant.aCERCode_Names.name" type="ACERCode_String"
442 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
443 schema-cim16#Name.name"/>
444 <xs:element name="eICCode_MarketParticipant.vATCode_Names.name"
445 type="VATCode_String" minOccurs="0" maxOccurs="1"
446 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
447 <xs:element name="eICParent_MarketDocument.mRID"
448 type="EICCode_String" minOccurs="0" maxOccurs="1"
449 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
450 cim16#IdentifiedObject.mRID"/>
451 <xs:element name="eICResponsible_MarketParticipant.mRID"
452 type="EICCode_String" minOccurs="0" maxOccurs="1"
453 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
454 cim16#IdentifiedObject.mRID"/>
455 <xs:element name="description" type="Characters700_String"
456 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
457 schema-cim16#IdentifiedObject.description"/>
458 <xs:element name="Function_Names" type="Function_Name"
459 minOccurs="0" maxOccurs="unbounded"
460 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
461 cim16#MarketDocument.Function_Names"/>
462 </xs:sequence>
463 </xs:complexType>
464 <xs:complexType name="Function_Name"
465 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name">
466 <xs:sequence>
467 <xs:element name="name" type="Characters70_String"
468 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
469 schema-cim16#Name.name"/>
470 </xs:sequence>
471 </xs:complexType>
472 </xs:schema>
473

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