



European Network of
Transmission System Operators
for Electricity

STATUS REQUEST DOCUMENT UML MODEL AND SCHEMA

2022-03-15
APPROVED DOCUMENT
VERSION 1.1

2

Table of Contents

3	1. Objective	5
4	2. StatusRequest_MarketDocument.....	6
5	1.1 Status request contextual model	6
6	1.1.1 Overview of the model	6
7	1.1.2 IsBasedOn relationships from the European style market	
8	profile	6
9	1.2 Status request assembly model	7
10	1.2.1 Overview of the model	7
11	1.2.2 IsBasedOn relationships from the European style market	
12	profile	7
13	1.2.3 Detailed Status request assembly model	8
14	1.2.3.1 StatusRequest_MarketDocument root class	8
15	1.2.3.2 AttributeInstanceComponent	8
16	1.2.4 Datatypes	9
17	1.2.5 StatusRequest_MarketDocument XML schema structure	10
18	1.2.6 StatusRequest_MarketDocument XML schema	11
19	List of figures	
20	Figure 1 - Status request contextual model	6
21	Figure 2 - Status request assembly model	7
22	Figure 3 - StatusRequest_MarketDocument schema structure	10
23	List of tables	
24	Table 1 - IsBasedOn dependency	6
25	Table 2 - IsBasedOn dependency	7
26	Table 3 - Attributes of Status request assembly	
27	model::StatusRequest_MarketDocument.....	8
28	Table 4 - Association ends of Status request assembly	
29	model::StatusRequest_MarketDocument with other classes	8
30	Table 5 - Attributes of Status request assembly model::AttributeInstanceComponent	9
31		

32

Copyright notice:

33 **Copyright © ENTSO-E. All Rights Reserved.**

34 This document and its whole translations may be copied and furnished to others, and derivative
35 works that comment on or otherwise explain it or assist in its implementation may be prepared,
36 copied, published and distributed, in whole or in part, without restriction of any kind, provided
37 that the above copyright notice and this paragraph are included on all such copies and
38 derivative works. However, this document itself may not be modified in any way, except for
39 literal and whole translation into languages other than English and under all circumstances, the
40 copyright notice or references to ENTSO-E may not be removed.

41 This document and the information contained herein is provided on an "as is" basis.

42 **ENTSO-E DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT**
43 **LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT**
44 **INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR**
45 **FITNESS FOR A PARTICULAR PURPOSE.**

46

Maintenance notice:

47 **This document is maintained by the ENTSO-E CIM EG. Comments or remarks are to be**
48 **provided at cim@entsoe.eu**

49

Revision History

Version	Release	Date	Comments
0	1	2019-12-23	First draft of the document.
0	2	2020-02-14	Second draft if the document. Comments from CIM EG were taken into account
1	0	2020-03-18	Approved by MC.
1	1	2022-03-15	Updates in XSD v4.1: mRID of Document, Series and Timeseries (ID_String type) was enlarged from 35 to 60 characters. Approved by MC.

50

51

52

53 **1. Objective**

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

56 The schema of the StatusRequest_MarketDocument could be used in various business
57 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.

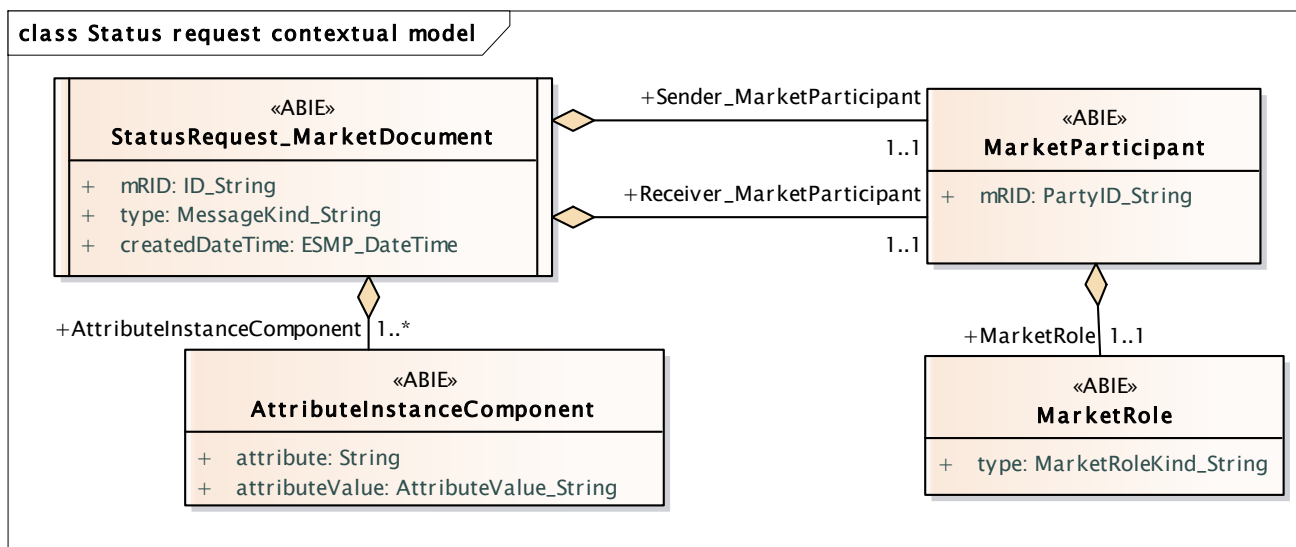
70

71 **2. StatusRequest_MarketDocument**

72 1.1 Status request contextual model

73 1.1.1 Overview of the model

74 Figure 1 shows the model.



75

76

Figure 1 - Status request contextual model

77 1.1.2 IsBasedOn relationships from the European style market profile

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

80

Table 1 - IsBasedOn dependency

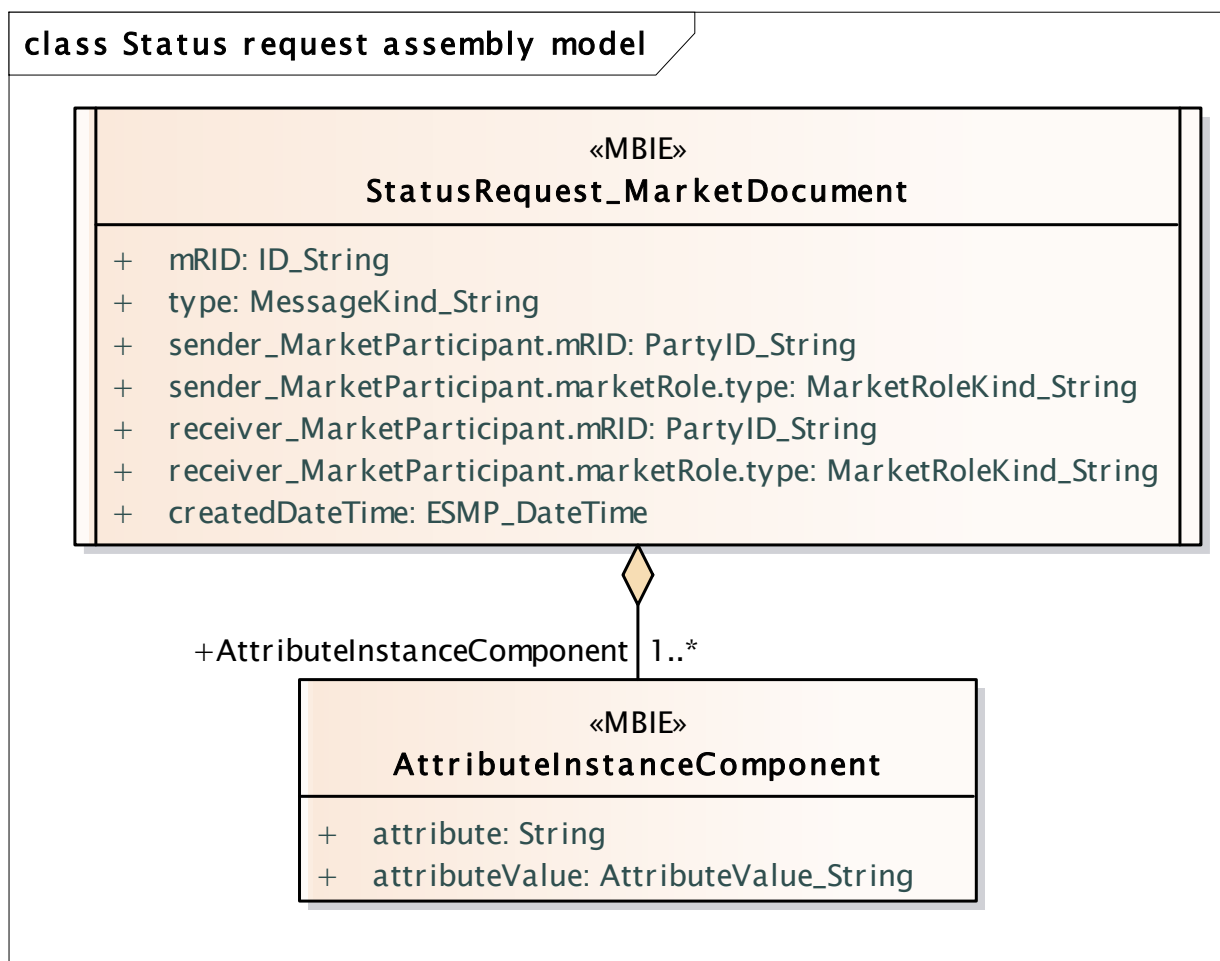
Name	Complete IsBasedOn Path
AttributeInstanceComponent	TC57CIM::IEC62325::MarketManagement::AttributeInstanceComponent
MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
MarketRole	TC57CIM::IEC62325::MarketCommon::MarketRole
StatusRequest_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument

81

82 1.2 Status request assembly model

83 1.2.1 Overview of the model

84 Figure 2 shows the model.



85

86

Figure 2 - Status request assembly model

87 1.2.2 IsBasedOn relationships from the European style market profile

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

90

Table 2 - IsBasedOn dependency

Name	Complete IsBasedOn Path
AttributeInstanceComponent	TC57CIM::IEC62325::MarketManagement::AttributeInstanceComponent
StatusRequest_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument

91

92 **1.2.3 Detailed Status request assembly model**

93 **1.2.3.1 StatusRequest_MarketDocument root class**

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

96 Table 3 shows all attributes of StatusRequest_MarketDocument.

97 **Table 3 - Attributes of Status request assembly model::StatusRequest_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]	type MessageKind_String	The coded type of a document. The document type describes the principal characteristic of the document.
2	[1..1]	sender_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- Document owner.
3	[1..1]	sender_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- Document owner.
4	[1..1]	receiver_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- Document recipient.
5	[1..1]	receiver_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- Document recipient.
6	[1..1]	createdDateTime ESMP_DateTime	The date and time of the creation of the document.

98

99 Table 4 shows all association ends of StatusRequest_MarketDocument with other classes.

100 **Table 4 - Association ends of Status request assembly**
101 **model::StatusRequest_MarketDocument with other classes**

Order	mult.	Class name / Role	Description
7	[1..*]	AttributeInstanceComponent AttributeInstanceComponent	Association Based On: Status request contextual model::AttributeInstanceComponent.AttributeInstanceComponent[1..*] ----- Status request contextual model::StatusRequest_MarketDocument.[]

102

103 **1.2.3.2 AttributeInstanceComponent**

104 A class used to provide information about an attribute.

105 Table 5 shows all attributes of AttributeInstanceComponent.

106 **Table 5 - Attributes of Status request assembly model::AttributeInstanceComponent**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	attribute String	The requested attribute identifies the significance of the content of the requested attribute value. It is a string value that represents a copy of the elementTag of the electronic document for which the status is being requested. In addition the following reserved names may be used. RequestedReturnDocumentType; Identification of a particular document that is expected as a reply, for example the merit order list document. DateAndOrTime; The requests can be made for a specific date, and or Date Time, for example, it can be used for the outage document. The identification of an attribute for a given request component.
1	[1..1]	attributeValue AttributeValue_String	Each requested attribute component has associated with it a value that is identified in the requested attribute value attribute. The value of a given component.

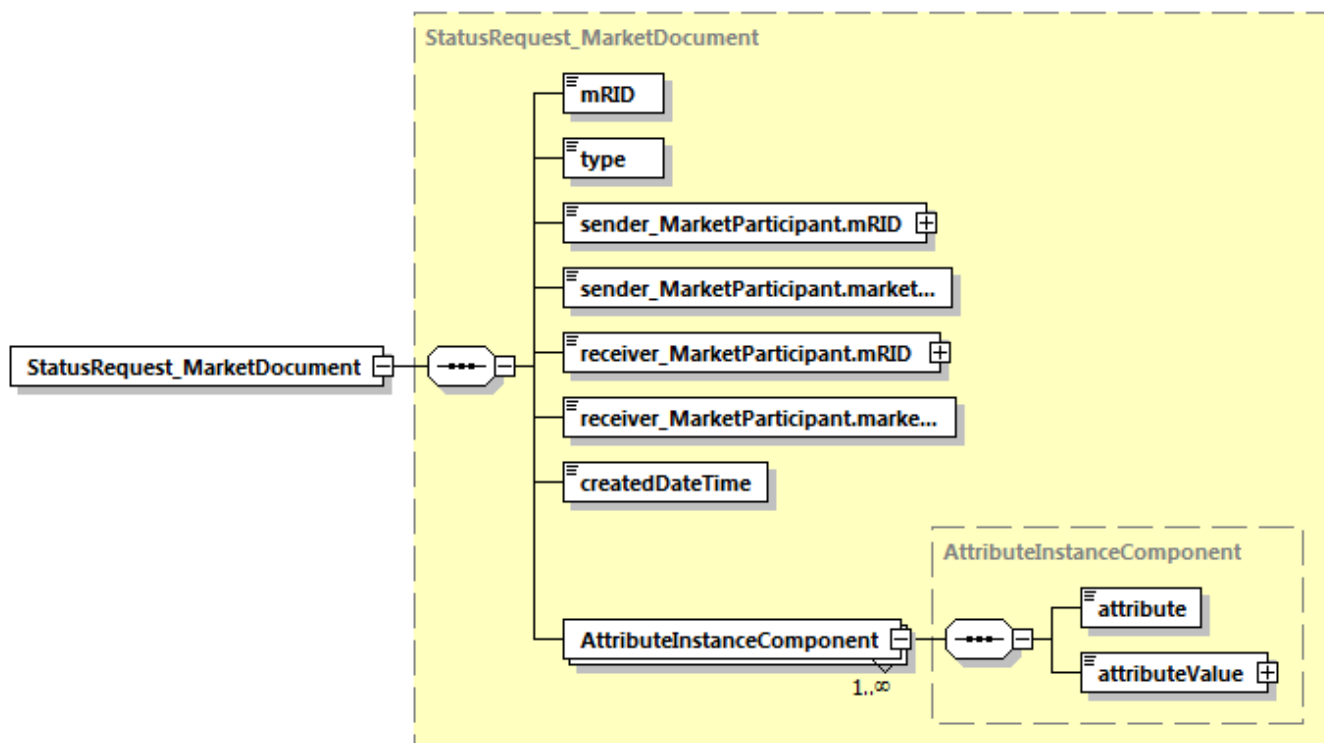
107

108 **1.2.4 Datatypes**

109 The list of datatypes used for the Status request assembly model is as follows:

- 110
- AttributeValue_String datatype, codelist CodingSchemeTypeList
 - 111 • ESMP_DateTime datatype
 - 112 • ID_String datatype
 - 113 • MarketRoleKind_String datatype, codelist RoleTypeList
 - 114 • MessageKind_String datatype, codelist MessageTypeList
 - 115 • PartyID_String datatype, codelist CodingSchemeTypeList
- 116

117 1.2.5 StatusRequest_MarketDocument XML schema structure



118
 119

Generated by XMLSpy
 Figure 3 - StatusRequest_MarketDocument schema structure

www.altova.com

120 1.2.6 StatusRequest_MarketDocument XML schema

121

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

123 urn:iec62325.351:tc57wg16:451-5:statusrequestdocument:4:1

```
124 <?xml version="1.0" encoding="utf-8"?>
125 <xs:schema xmlns:ecl="urn:entsoe.eu:wgedi:codelists"
126 xmlns="urn:iec62325.351:tc57wg16:451-5:statusrequestdocument:4:1"
127 xmlns:sawsdl="http://www.w3.org/ns/sawsdl"
128 xmlns:cimp="http://www.iec.ch/cimprofile"
129 xmlns:xs="http://www.w3.org/2001/XMLSchema"
130 targetNamespace="urn:iec62325.351:tc57wg16:451-5:statusrequestdocument:4:1"
131 elementFormDefault="qualified" attributeFormDefault="unqualified">
132   <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-
133 entsoe-eu-wgedi-codelists.xsd"/>
134   <xs:element name="StatusRequest_MarketDocument"
135 type="StatusRequest_MarketDocument"/>
136   <xs:simpleType name="AttributeValue_String-base"
137 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
138     <xs:restriction base="xs:string">
139       <xs:maxLength value="150"/>
140     </xs:restriction>
141   </xs:simpleType>
142   <xs:complexType name="AttributeValue_String"
143 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
144     <xs:simpleContent>
145       <xs:extension base="AttributeValue_String-base">
146         <xs:attribute name="codingScheme"
147 type="ecl:CodingSchemeTypeList"/>
148       </xs:extension>
149     </xs:simpleContent>
150   </xs:complexType>
151   <xs:complexType name="AttributeInstanceComponent"
152 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
153 cim16#AttributeInstanceComponent">
154     <xs:sequence>
155       <xs:element name="attribute" type="xs:string" minOccurs="1"
156 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
157 cim16#AttributeInstanceComponent.attribute"/>
158       <xs:element name="attributeValue" type="AttributeValue_String"
159 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
160 schema-cim16#AttributeInstanceComponent.attributeValue"/>
161     </xs:sequence>
162   </xs:complexType>
163   <xs:simpleType name="ID_String"
164 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
165     <xs:restriction base="xs:string">
166       <xs:maxLength value="60"/>
167     </xs:restriction>
168   </xs:simpleType>
169   <xs:simpleType name="MessageKind_String"
170 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
171     <xs:restriction base="ecl:MessageTypeList"/>
172   </xs:simpleType>
173   <xs:simpleType name="PartyID_String-base"
174 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
175     <xs:restriction base="xs:string">
176       <xs:maxLength value="16"/>

```

```

177         </xs:restriction>
178     </xs:simpleType>
179     <xs:complexType name="PartyID_String"
180 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
181         <xs:simpleContent>
182             <xs:extension base="PartyID_String-base">
183                 <xs:attribute name="codingScheme"
184 type="ecl:CodingSchemeTypeList" use="required"/>
185             </xs:extension>
186         </xs:simpleContent>
187     </xs:complexType>
188     <xs:simpleType name="MarketRoleKind_String"
189 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
190         <xs:restriction base="ecl:RoleTypeList"/>
191     </xs:simpleType>
192     <xs:simpleType name="ESMP_DateTime"
193 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
194         <xs:restriction base="xs:dateTime">
195             <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02])[\-](0[1-
196 9]|12)[0-9]|3[01])|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|12)[0-
197 9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-
198 9])Z)|(((13579)[26][02468][048]|13579[01345789](0)[48]|13579[01345789][2468][0
199 48]|02468[048][02468][048]|02468[1235679](0)[48]|02468[1235679][2468][048]|
200 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-
201 5][0-9]:[0-5][0-
202 9])Z)|(((13579)[26][02468][1235679]|13579[01345789](0)[01235679]|13579[0134578
203 9][2468][1235679]|02468[048][02468][1235679]|02468[1235679](0)[01235679]|0246
204 8][1235679][2468][1235679]|0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
205 9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])Z)"/>
206         </xs:restriction>
207     </xs:simpleType>
208     <xs:complexType name="StatusRequest_MarketDocument"
209 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">
210         <xs:sequence>
211             <xs:element name="mRID" type="ID_String" minOccurs="1"
212 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
213 cim16#IdentifiedObject.mRID"/>
214             <xs:element name="type" type="MessageKind_String"
215 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
216 schema-cim16#Document.type"/>
217             <xs:element name="sender_MarketParticipant.mRID"
218 type="PartyID_String" minOccurs="1" maxOccurs="1"
219 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
220 cim16#IdentifiedObject.mRID"/>
221             <xs:element name="sender_MarketParticipant.marketRole.type"
222 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
223 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
224             <xs:element name="receiver_MarketParticipant.mRID"
225 type="PartyID_String" minOccurs="1" maxOccurs="1"
226 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
227 cim16#IdentifiedObject.mRID"/>
228             <xs:element name="receiver_MarketParticipant.marketRole.type"
229 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
230 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
231             <xs:element name="createdDateTime" type="ESMP_DateTime"
232 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
233 schema-cim16#Document.createdDateTime"/>
234             <xs:element name="AttributeInstanceComponent"
235 type="AttributeInstanceComponent" minOccurs="1" maxOccurs="unbounded"

```

```
236   sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
237   cim16#MarketDocument.AttributeInstanceComponent"/>
238       </xs:sequence>
239   </xs:complexType>
240 </xs:schema>
241
```