



European Network of
Transmission System Operators
for Electricity

PROBLEM STATEMENT DOCUMENT UML MODEL AND SCHEMA

2022-11-29
AGREED DOCUMENT
VERSION 1.2

2

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Revision History

Version	Release	Date	Comments
0	1	2019-12-23	First draft of the document.
1	0	2020-03-18	Approved by MC.
1	1	2022-03-15	Updates in XSD v3.1: mRID of Document, Series and Timeseries (ID_String type) was enlarged from 35 to 60 characters. Approved by MC.
1	2	2022-11-29	Updates in XSD v3.2: Added an optional energyMarket.timeframe attribute in ProblemStatement_MarketDocument class. Agreed by CIM WG.

50

51 **1. Objective**

52 The purpose of this document is to provide the contextual and assembly UML models and the
53 schema of the ProblemStatement_MarketDocument.

54 The schema of the ProblemStatement_MarketDocument could be used in various business
55 processes.

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

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

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

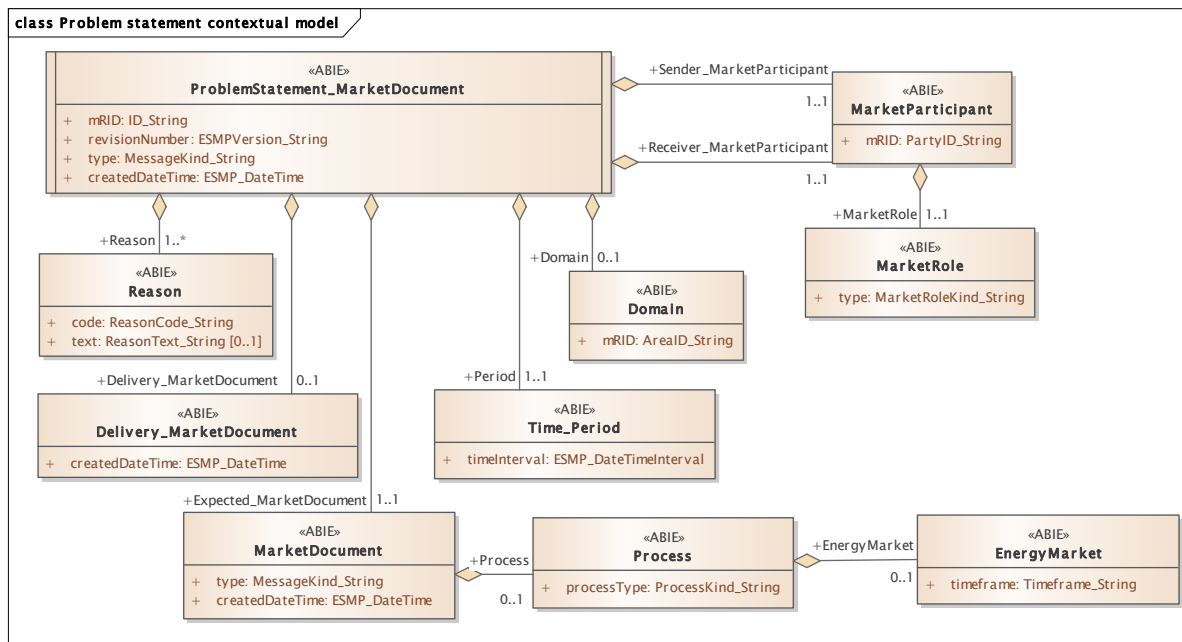
68

69 **2. ProblemStatement_MarketDocument**

70 **2.1. Problem statement contextual model**

71 **2.1.1. Overview of the model**

72 Figure 1 shows the model.



73

74

Figure 1 - Problem statement contextual model

75 **2.1.2. IsBasedOn relationships from the European style market profile**

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

78

Table 1 - IsBasedOn dependency

Name	Complete IsBasedOn Path
Delivery_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Domain	TC57CIM::IEC62325::MarketManagement::Domain
EnergyMarket	TC57CIM::IEC62325::MarketCommon::EnergyMarket
MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
MarketRole	TC57CIM::IEC62325::MarketCommon::MarketRole
ProblemStatement_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Process	TC57CIM::IEC62325::MarketManagement::Process
Reason	TC57CIM::IEC62325::MarketManagement::Reason
Time_Period	TC57CIM::IEC62325::MarketManagement::Period

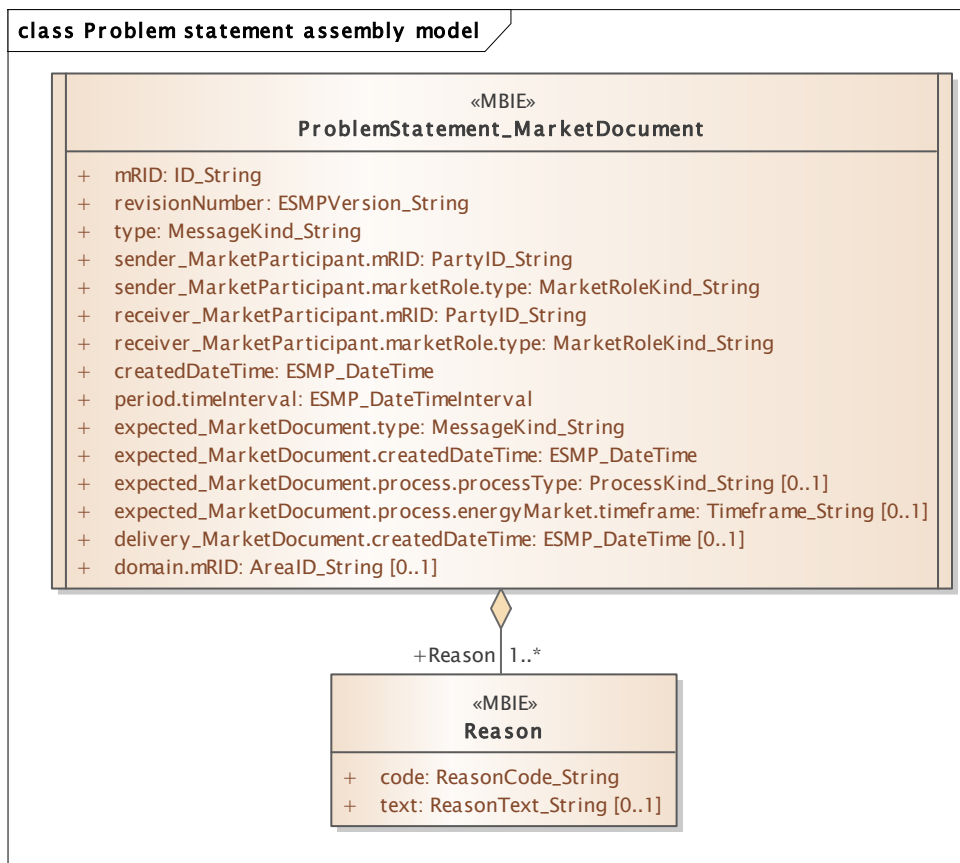
79

80

81 **2.2. Problem statement assembly model**

82 **2.2.1. Overview of the model**

83 Figure 2 shows the model.



84

85 **Figure 2 - Problem statement assembly model**

86 **2.2.2. IsBasedOn relationships from the European style market profile**

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

89

Table 2 - IsBasedOn dependency

Name	Complete IsBasedOn Path
ProblemStatement_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Reason	TC57CIM::IEC62325::MarketManagement::Reason

90

91 **2.2.3. Detailed Problem statement assembly model**

92 **2.2.3.1. ProblemStatement_MarketDocument root class**

93 The objective of this document is to provide either a means of informing a party that a document
94 could not be issued by the expected time and thus will be delayed (the approval of this delay
95 depends upon the rules that have been established between the parties) or an automated
96 support in the case where an escalation procedure has to be put into place when an expected
97 event does not occur or a critical situation has to be resolved.

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

100 Table 3 shows all attributes of ProblemStatement_MarketDocument.

101 **Table 3 - Attributes of Problem statement assembly**
102 **model::ProblemStatement_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 document version is used to identify a given version of a Problem Statement document and is used in the case of possible erroneous transmissions. The first version number for a given document identification shall normally be 1. The identification of the version that distinguishes one evolution of a document from another.
2	[1..1]	type MessageKind_String	The following codes could be used - A34: Escalation document; - A35: Trouble shooting document. The coded type of a document. The document type describes the principal characteristic of the document.
3	[1..1]	sender_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- Document owner.
4	[1..1]	sender_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- Document owner.
5	[1..1]	receiver_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- Document recipient.
6	[1..1]	receiver_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- Document recipient.
7	[1..1]	createdDateTime ESMP_DateTime	The date and time of the creation of the document.
8	[1..1]	period.timeInterval ESMP_DateTimeInterval	The start and end date and time for a given interval.
9	[1..1]	expected_MarketDocument.type MessageKind_String	The coded type of a document. The document type describes the principal characteristic of the document. --- The information enabling to identify the expected (not received) or not received (escalation) document.
10	[1..1]	expected_MarketDocument.createdDateTime ESMP_DateTime	The date and time that the document is expected by the receiver. The date and time of the creation of the document. --- The information enabling to identify the expected (not received) or not received (escalation) document.

Order	mult.	Attribute name / Attribute type	Description
11	[0..1]	expected_MarketDocument.process.processType ProcessKind_String	The identification of the nature of process that the document addresses. --- The information enabling to identify the expected (not received) or not received (escalation) document. --- The process that the expected document is directed at. This process is only to be defined if the expected document addresses a specific process otherwise it is optional.
12	[0..1]	expected_MarketDocument.process.energyMarket.timeframe Timeframe_String	A specified period of time in which something occurs or is planned to take place. --- The timeframe that the expected document is directed at. This timeframe is only to be defined if the expected document addresses a specific timeframe otherwise it is optional.
13	[0..1]	delivery_MarketDocument.createdDateTime ESMP_DateTime	The date and time of the creation of the document. --- The date and time when the document is expected to be prepared for transmission by the application of the sender.
14	[0..1]	domain.mRID AreaID_String	The unique identification of the domain.

103

104 Table 4 shows all association ends of ProblemStatement_MarketDocument with other classes.

105

Table 4 - Association ends of Problem statement assembly model::ProblemStatement_MarketDocument with other classes

106

Order	mult.	Class name / Role	Description
15	[1..*]	Reason Reason	Association Based On: Problem statement contextual model::Reason.Reason[1..*] ----- Problem statement contextual model::ProblemStatement_MarketDocument.[]

107

108 2.2.3.2. Reason

109 The reason code is used to identify the reason for the transmission of the document. If
110 necessary additional information may be provided in the reason text.

111 The following codes have currently been identified: - A91: Expected document not received; -
112 A92: Not possible to send document on time, but estimated delivery time is provided; - A93: Not
113 possible to send document on time, and further more no expected time of return to normal
114 situation.

115 The motivation of an act.

116 Table 5 shows all attributes of Reason.

117

Table 5 - Attributes of Problem statement assembly model::Reason

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	code ReasonCode_String	The motivation of an act in coded form.
1	[0..1]	text ReasonText_String	The textual explanation corresponding to the reason code.

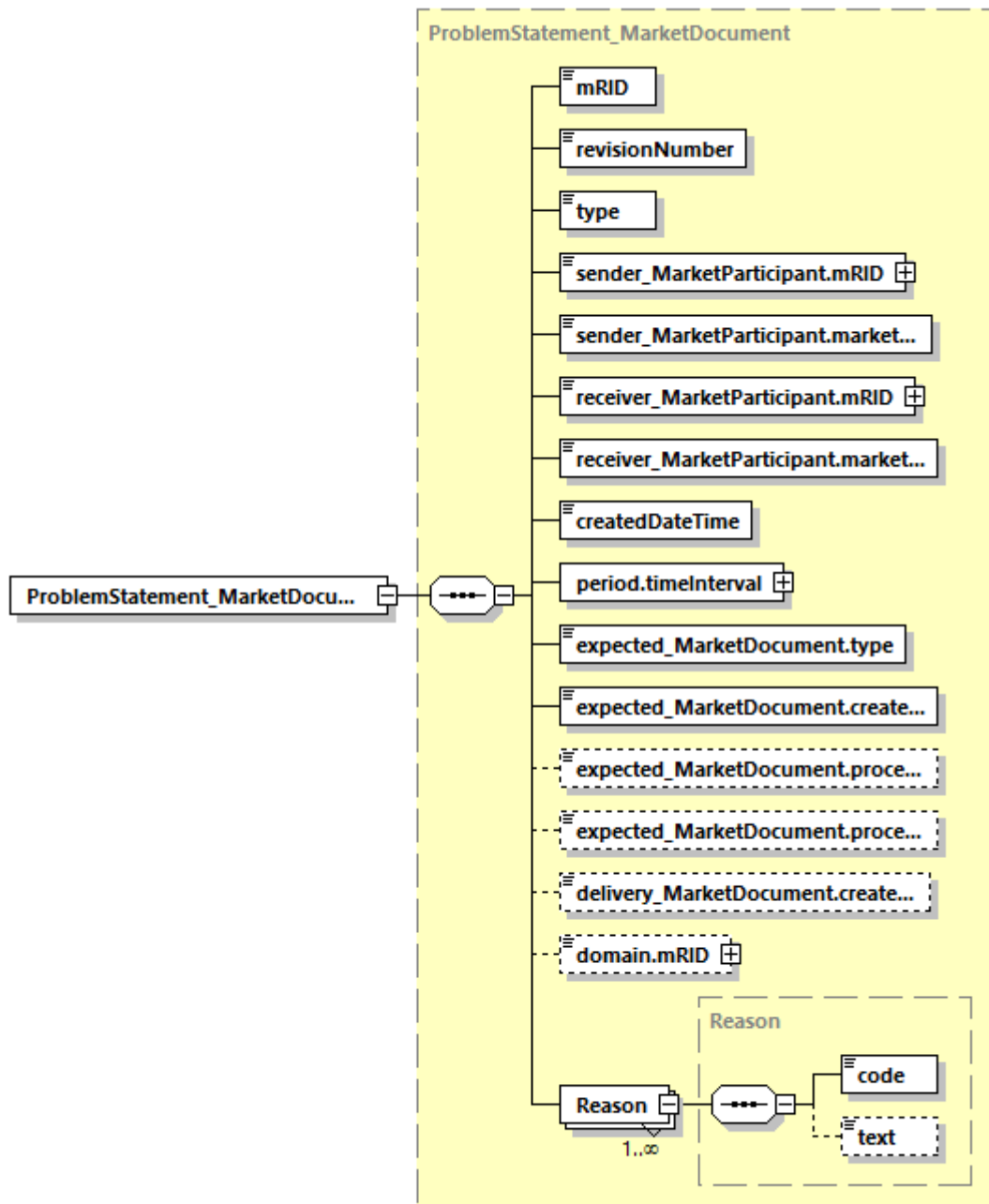
118

119 **2.2.4. Datatypes**

120 The list of datatypes used for the Problem statement assembly model is as follows:

- 121 • ESMP_DateTimeInterval compound
 - 122 • ArealID_String datatype, codelist CodingSchemeTypeList
 - 123 • ESMP_DateTime datatype
 - 124 • ESMPVersion_String datatype
 - 125 • ID_String datatype
 - 126 • MarketRoleKind_String datatype, codelist RoleTypeList
 - 127 • MessageKind_String datatype, codelist MessageTypeList
 - 128 • PartyID_String datatype, codelist CodingSchemeTypeList
 - 129 • ProcessKind_String datatype, codelist ProcessTypeList
 - 130 • ReasonCode_String datatype, codelist ReasonCodeTypeList
 - 131 • ReasonText_String datatype
 - 132 • Timeframe_String datatype, codelist TimeframeTypeList
 - 133 • YMDHM_DateTime datatype
- 134

135 2.2.5. ProblemStatement_MarketDocument XML schema structure



136

Generated by XMLSpy

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137

Figure 3 – ProblemStatement_MarketDocument schema structure

138 2.2.6. ProblemStatement_MarketDocument XML schema

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

140 urn:iec62325.351:tc57wg16:451-5:problemdocument:3:2

```
141 <?xml version="1.0" encoding="utf-8"?>
142 <xs:schema xmlns:ecl="urn:entsoe.eu:wgedi:codelists"
143 xmlns="urn:iec62325.351:tc57wg16:451-5:problemdocument:3:2"
144 xmlns:sawsdl="http://www.w3.org/ns/sawsdl"
145 xmlns:cimp="http://www.iec.ch/cimprofile"
146 xmlns:xs="http://www.w3.org/2001/XMLSchema"
147 targetNamespace="urn:iec62325.351:tc57wg16:451-5:problemdocument:3:2"
148 elementFormDefault="qualified" attributeFormDefault="unqualified">
149   <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-
150 entsoe-eu-wgedi-codelists.xsd"/>
151   <xs:element name="ProblemStatement_MarketDocument"
152 type="ProblemStatement_MarketDocument"/>
153   <xs:simpleType name="ID_String"
154 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
155     <xs:restriction base="xs:string">
156       <xs:maxLength value="60"/>
157     </xs:restriction>
158   </xs:simpleType>
159   <xs:simpleType name="ESMPVersion_String"
160 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
161     <xs:restriction base="xs:string">
162       <xs:pattern value="[1-9]([0-9]){0,2}"/>
163     </xs:restriction>
164   </xs:simpleType>
165   <xs:simpleType name="MessageKind_String"
166 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
167     <xs:restriction base="ecl:MessageTypeList"/>
168   </xs:simpleType>
169   <xs:simpleType name="PartyID_String-base"
170 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
171     <xs:restriction base="xs:string">
172       <xs:maxLength value="16"/>
173     </xs:restriction>
174   </xs:simpleType>
175   <xs:complexType name="PartyID_String"
176 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
177     <xs:simpleContent>
178       <xs:extension base="PartyID_String-base">
179         <xs:attribute name="codingScheme"
180 type="ecl:CodingSchemeTypeList" use="required"/>
181       </xs:extension>
182     </xs:simpleContent>
183   </xs:complexType>
184   <xs:simpleType name="MarketRoleKind_String"
185 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
186     <xs:restriction base="ecl:RoleTypeList"/>
187   </xs:simpleType>
188   <xs:simpleType name="ESMP_DateTime"
189 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
190     <xs:restriction base="xs:dateTime">
191       <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02]))[\-](0[1-
192 9]|12|[0-9]|3[01])|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|12|[0-
193 9]|30))T(([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-
194 9])Z|(((13579)[26][02468][048]|13579)[01345789](0)[48]|13579)[01345789][2468][0
195 48]|02468)[048][02468][048]|02468)[1235679](0)[48]|02468)[1235679][2468][048]]|
```

```

196 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T(([01][0-9]|2[0-3]):[0-
197 5][0-9]:[0-5][0-
198 9])Z)|((([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][0134578
199 9][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[0246
200 8][1235679][2468][1235679]|[0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
201 9]|2[0-8])T(([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])Z)"/>
202     </xs:restriction>
203   </xs:simpleType>
204   <xs:simpleType name="ProcessKind_String"
205 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
206     <xs:restriction base="ecl:ProcessTypeList"/>
207   </xs:simpleType>
208   <xs:simpleType name="Timeframe_String"
209 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
210     <xs:restriction base="ecl:TimeframeTypeList"/>
211   </xs:simpleType>
212   <xs:simpleType name="AreaID_String-base"
213 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
214     <xs:restriction base="xs:string">
215       <xs:maxLength value="18"/>
216     </xs:restriction>
217   </xs:simpleType>
218   <xs:complexType name="AreaID_String"
219 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
220     <xs:simpleContent>
221       <xs:extension base="AreaID_String-base">
222         <xs:attribute name="codingScheme"
223 type="ecl:CodingSchemeTypeList" use="required"/>
224       </xs:extension>
225     </xs:simpleContent>
226   </xs:complexType>
227   <xs:simpleType name="YMDHM_DateTime"
228 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
229     <xs:restriction base="xs:string">
230       <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02])[\-](0[1-
231 9]|12)[0-9]|3[01])|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|12)[0-
232 9]|30))T(([01][0-9]|2[0-3]):[0-5][0-
233 9])Z)|((([13579][26][02468][048]|[13579][01345789](0)[48]|[13579][01345789][2468][0
234 48]|[02468][048][02468][048]|[02468][1235679](0)[48]|[02468][1235679][2468][048]|[
235 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T(([01][0-9]|2[0-3]):[0-
236 5][0-
237 9])Z)|((([13579][26][02468][1235679]|[13579][01345789](0)[01235679]|[13579][0134578
238 9][2468][1235679]|[02468][048][02468][1235679]|[02468][1235679](0)[01235679]|[0246
239 8][1235679][2468][1235679]|[0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
240 9]|2[0-8])T(([01][0-9]|2[0-3]):[0-5][0-9])Z)"/>
241     </xs:restriction>
242   </xs:simpleType>
243   <xs:complexType name="ESMP_DateTimeInterval"
244 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTimeInterval">
245     <xs:sequence>
246       <xs:element name="start" type="YMDHM_DateTime" minOccurs="1"
247 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
248 cim16#DateTimeInterval.start"/>
249       <xs:element name="end" type="YMDHM_DateTime" minOccurs="1"
250 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
251 cim16#DateTimeInterval.end"/>
252     </xs:sequence>
253   </xs:complexType>
254   <xs:complexType name="ProblemStatement_MarketDocument"
255 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">

```

```

256         <xs:sequence>
257             <xs:element name="mRID" type="ID_String" minOccurs="1"
258 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
259 cim16#IdentifiedObject.mRID"/>
260             <xs:element name="revisionNumber" type="ESMPVersion_String"
261 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
262 schema-cim16#Document.revisionNumber"/>
263             <xs:element name="type" type="MessageKind_String" minOccurs="1"
264 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
265 cim16#Document.type"/>
266             <xs:element name="sender_MarketParticipant.mRID"
267 type="PartyID_String" minOccurs="1" maxOccurs="1"
268 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
269 cim16#IdentifiedObject.mRID"/>
270             <xs:element name="sender_MarketParticipant.marketRole.type"
271 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
272 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
273             <xs:element name="receiver_MarketParticipant.mRID"
274 type="PartyID_String" minOccurs="1" maxOccurs="1"
275 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
276 cim16#IdentifiedObject.mRID"/>
277             <xs:element name="receiver_MarketParticipant.marketRole.type"
278 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
279 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
280             <xs:element name="createdDateTime" type="ESMP_DateTime"
281 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
282 schema-cim16#Document.createdDateTime"/>
283             <xs:element name="period.timeInterval"
284 type="ESMP_DateTimeInterval" minOccurs="1" maxOccurs="1"
285 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
286 cim16#Period.timeInterval"/>
287             <xs:element name="expected_MarketDocument.type"
288 type="MessageKind_String" minOccurs="1" maxOccurs="1"
289 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.type"/>
290             <xs:element name="expected_MarketDocument.createdDateTime"
291 type="ESMP_DateTime" minOccurs="1" maxOccurs="1"
292 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
293 cim16#Document.createdDateTime"/>
294             <xs:element name="expected_MarketDocument.process.processType"
295 type="ProcessKind_String" minOccurs="0" maxOccurs="1"
296 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
297 cim16#Process.processType"/>
298             <xs:element
299 name="expected_MarketDocument.process.energyMarket.timeframe"
300 type="Timeframe_String" minOccurs="0" maxOccurs="1"
301 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
302 cim16#EnergyMarket.timeframe"/>
303             <xs:element name="delivery_MarketDocument.createdDateTime"
304 type="ESMP_DateTime" minOccurs="0" maxOccurs="1"
305 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
306 cim16#Document.createdDateTime"/>
307             <xs:element name="domain.mRID" type="AreaID_String"
308 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
309 schema-cim16#IdentifiedObject.mRID"/>
310             <xs:element name="Reason" type="Reason" minOccurs="1"
311 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
312 cim16#MarketDocument.Reason"/>
313         </xs:sequence>
314     </xs:complexType>
  
```

```
315         <xs:simpleType name="ReasonCode_String"
316 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
317             <xs:restriction base="ecl:ReasonCodeTypeList"/>
318         </xs:simpleType>
319         <xs:simpleType name="ReasonText_String"
320 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
321             <xs:restriction base="xs:string">
322                 <xs:maxLength value="512"/>
323             </xs:restriction>
324         </xs:simpleType>
325         <xs:complexType name="Reason"
326 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Reason">
327             <xs:sequence>
328                 <xs:element name="code" type="ReasonCode_String" minOccurs="1"
329 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
330 cim16#Reason.code"/>
331                 <xs:element name="text" type="ReasonText_String" minOccurs="0"
332 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
333 cim16#Reason.text"/>
334             </xs:sequence>
335         </xs:complexType>
336 </xs:schema>
337
```