



European Network of  
Transmission System Operators  
for Electricity

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**RESOURCE SCHEDULE  
CONFIRMATION DOCUMENT  
UML MODEL AND SCHEMA**

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2022-09-06  
AGREED DOCUMENT  
VERSION 1.2

2

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## Revision History

Version	Release	Date	Comments
0	1	2019-01-14	First draft of the document.
1	0	2019-02-12	Approved by MC.
1	1	2021-09-15	Updates in resource schedule confirmation document XSD v6.1: An optional curveType attribute was added to Timeseries class. Approved by MC.
1	2	2022-09-06	Updates in resource schedule confirmation document XSD v6.2: Optional registeredResource.mRID, substituteResourceProvider_MarketRole.type and substituteRegisteredResource.mRID were added in UnavailableReserve_Timeseries. Agreed by CIM EG

77

78 **1. Objective**

79 The purpose of this document is to provide the contextual and assembly UML models and the  
80 schema of the ResourceScheduleConfirmation\_MarketDocument.

81 The schema of the ResourceScheduleConfirmation\_MarketDocument could be used in various  
82 business processes.

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

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

- 87 • Description of the business process;
- 88 • Use case of the business process;
- 89 • Sequence diagrams of the business process;
- 90 • List of the schema (XSD) to be used in the business process and versions of the  
91 schema;
- 92 • For each schema, dependency tables providing the necessary information for the  
93 generation of the XML instances, i.e. when the optional attributes are to be used, which  
94 codes from which ENTSO-E codelist are to be used.

95

96 **2. ResourceScheduleConfirmation\_MarketDocument**

97 **2.1. Resource schedule confirmation contextual model**

98 **2.1.1. Overview of the model**

99 Figure 1 shows the model.

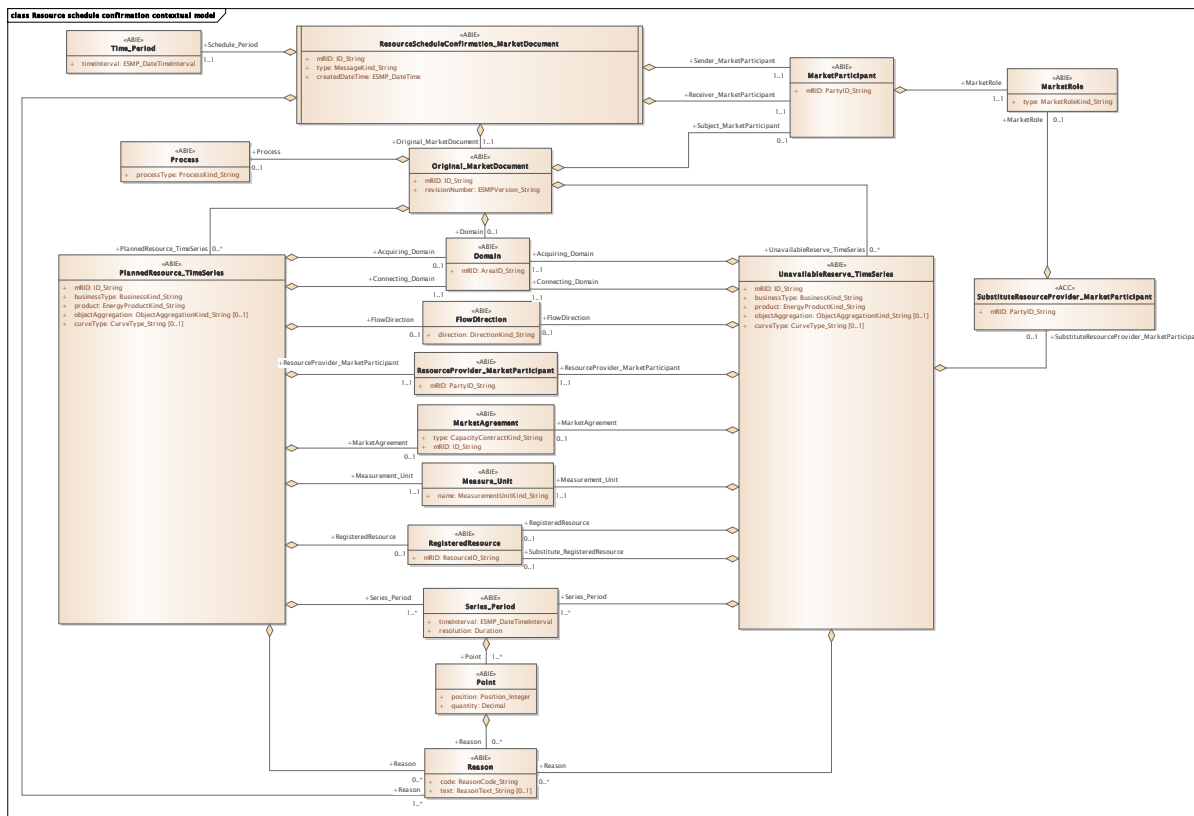


Figure 1 - Resource schedule confirmation contextual model

100

101

102

103

104 **2.1.2. IsBasedOn relationships from the European style market profile**

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

107

**Table 1 - IsBasedOn dependency**

Name	Complete IsBasedOn Path
Domain	TC57CIM::IEC62325::MarketManagement::Domain
FlowDirection	TC57CIM::IEC62325::MarketManagement::FlowDirection
MarketAgreement	TC57CIM::IEC62325::MarketManagement::MarketAgreement
MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
MarketRole	TC57CIM::IEC62325::MarketCommon::MarketRole
Measure_Unit	TC57CIM::IEC62325::MarketManagement::Unit
Original_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
PlannedResource_TimeSeries	TC57CIM::IEC62325::MarketManagement::TimeSeries
Point	TC57CIM::IEC62325::MarketManagement::Point
Process	TC57CIM::IEC62325::MarketManagement::Process
Reason	TC57CIM::IEC62325::MarketManagement::Reason
RegisteredResource	TC57CIM::IEC62325::MarketCommon::RegisteredResource
ResourceProvider_MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
ResourceScheduleConfirmation_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Series_Period	TC57CIM::IEC62325::MarketManagement::Period
SubstituteResourceProvider_MarketParticipant	TC57CIM::IEC62325::MarketCommon::MarketParticipant
Time_Period	TC57CIM::IEC62325::MarketManagement::Period
UnavailableReserve_TimeSeries	TC57CIM::IEC62325::MarketManagement::TimeSeries

108

109

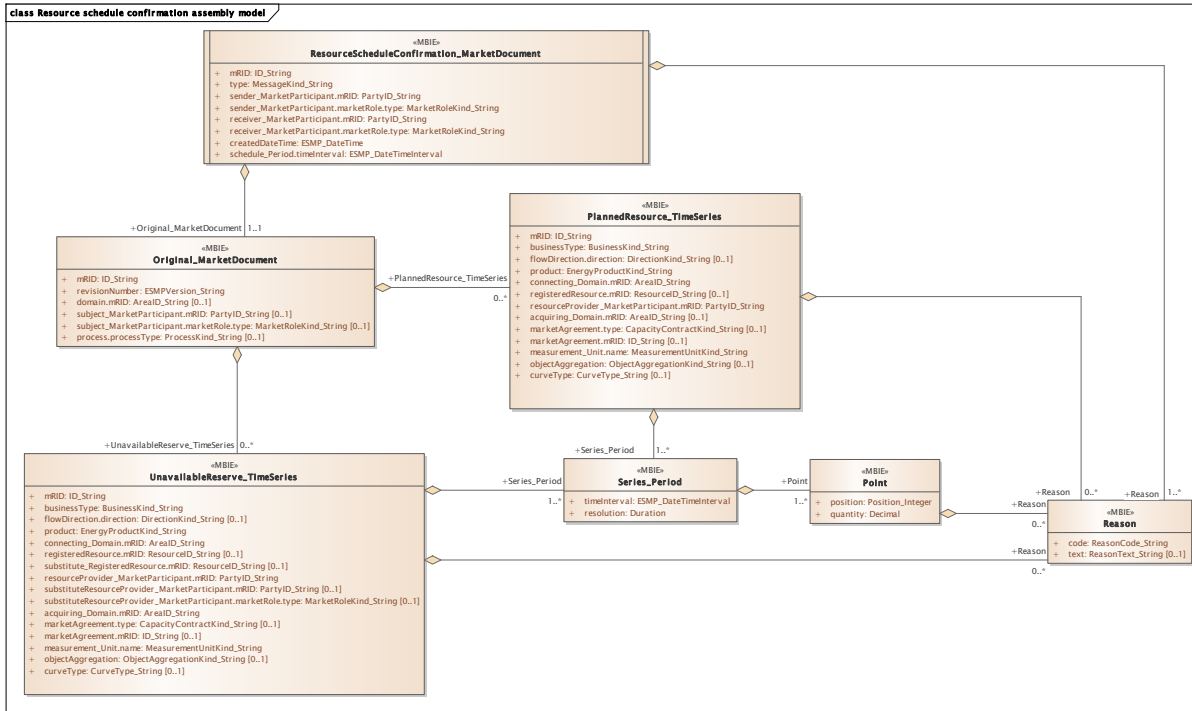


110

111 **2.2. Resource schedule confirmation assembly model**

112 **2.2.1. Overview of the model**

113 Figure 2 shows the model.



114

115 **Figure 2 - Resource schedule confirmation assembly model**

116 **2.2.2. IsBasedOn relationships from the European style market profile**

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

119

**Table 2 - IsBasedOn dependency**

Name	Complete IsBasedOn Path
Original_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
PlannedResource_TimeSeries	TC57CIM::IEC62325::MarketManagement::TimeSeries
Point	TC57CIM::IEC62325::MarketManagement::Point
Reason	TC57CIM::IEC62325::MarketManagement::Reason
ResourceScheduleConfirmation_MarketDocument	TC57CIM::IEC62325::MarketManagement::MarketDocument
Series_Period	TC57CIM::IEC62325::MarketManagement::Period
UnavailableReserve_TimeSeries	TC57CIM::IEC62325::MarketManagement::TimeSeries

120

121 **2.2.3. Detailed Resource schedule confirmation assembly model**

122 **2.2.3.1. ResourceScheduleConfirmation\_MarketDocument root class**

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

125 Table 3 shows all attributes of ResourceScheduleConfirmation\_MarketDocument.

126 **Table 3 - Attributes of Resource schedule confirmation assembly**  
127 **model::ResourceScheduleConfirmation\_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. --- The document owner.
3	[1..1]	sender_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The document owner. --- The role associated with a MarketParticipant.
4	[1..1]	receiver_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The document recipient.
5	[1..1]	receiver_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The document recipient. --- The role associated with a MarketParticipant.
6	[1..1]	createdDateTime ESMP_DateTime	The date and time of the creation of the document.
7	[1..1]	schedule_Period.timeInterval ESMP_DateTimeInterval	The start and end date and time for a given interval.

128

129 Table 4 shows all association ends of ResourceScheduleConfirmation\_MarketDocument with  
130 other classes.

131 **Table 4 - Association ends of Resource schedule confirmation assembly**  
132 **model::ResourceScheduleConfirmation\_MarketDocument with other classes**

Order	mult.	Class name / Role	Description
8	[1..1]	Original_MarketDocument Original_MarketDocument	Association Based On: Resource schedule confirmation contextual model::Original_MarketDocument.Original_MarketDocument[1..1] ----- Resource schedule confirmation contextual model::ResourceScheduleConfirmation_MarketDocument.[]
9	[1..*]	Reason Reason	Association Based On: Resource schedule confirmation contextual model::Reason.Reason[1..*] ----- Resource schedule confirmation contextual model::ResourceScheduleConfirmation_MarketDocument.[]

133

134 **2.2.3.2. Original\_MarketDocument**

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

137 Table 5 shows all attributes of Original\_MarketDocument.

138 **Table 5 - Attributes of Resource schedule confirmation assembly**  
139 **model::Original\_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	[0..1]	domain.mRID AreaID_String	The unique identification of the domain.
3	[0..1]	subject_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The party that is the subject of the documents time series.
4	[0..1]	subject_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The party that is the subject of the documents time series. --- The role associated with a MarketParticipant.
5	[0..1]	process.processType ProcessKind_String	The identification of the nature of process that the document addresses.

140

141 Table 6 shows all association ends of Original\_MarketDocument with other classes.

142 **Table 6 - Association ends of Resource schedule confirmation assembly**  
143 **model::Original\_MarketDocument with other classes**

Order	mult.	Class name / Role	Description
6	[0..*]	PlannedResource_TimeSeries PlannedResource_TimeSeries	Association Based On: Resource schedule confirmation contextual model::PlannedResource_TimeSeries.PlannedResource_TimeSeries[0..*] ----- Resource schedule confirmation contextual model::Original_MarketDocument.[]
7	[0..*]	UnavailableReserve_TimeSeries UnavailableReserve_TimeSeries	Association Based On: Resource schedule confirmation contextual model::UnavailableReserve_TimeSeries.UnavailableReserve_TimeSeries[0..*] ----- Resource schedule confirmation contextual model::Original_MarketDocument.[]

144

145 **2.2.3.3. PlannedResource\_TimeSeries**

146 A set of time-ordered quantities being exchanged in relation to a product.

147 Table 7 shows all attributes of PlannedResource\_TimeSeries.

148 **Table 7 - Attributes of Resource schedule confirmation assembly**  
149 **model::PlannedResource\_TimeSeries**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	mRID ID_String	A unique identification of the time series.
1	[1..1]	businessType BusinessKind_String	The identification of the nature of the time series.
2	[0..1]	flowDirection.direction DirectionKind_String	The coded identification of the direction of energy flow. --- The flow direction associated with a TimeSeries.
3	[1..1]	product EnergyProductKind_String	The identification of the nature of an energy product such as power, energy, reactive power, etc.
4	[1..1]	connecting_Domain.mRID AreaID_String	The unique identification of the domain. --- The domain associated with a TimeSeries.
5	[0..1]	registeredResource.mRID ResourceID_String	The unique identification of a resource. --- The identification of a resource associated with a TimeSeries.
6	[1..1]	resourceProvider_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The identification of a market participant associated with a TimeSeries.
7	[0..1]	acquiring_Domain.mRID AreaID_String	The unique identification of the domain. --- The domain associated with a TimeSeries.
8	[0..1]	marketAgreement.type CapacityContractKind_String	The specification of the kind of the agreement, e.g. long term, daily contract. --- The identification of an agreement associated with a TimeSeries.
9	[0..1]	marketAgreement.mRID ID_String	The unique identification of the agreement. --- The identification of an agreement associated with a TimeSeries.
10	[1..1]	measurement_Unit.name MeasurementUnitKind_String	The identification of the formal code for a measurement unit (UN/ECE Recommendation 20). --- The unit of measure associated with the quantities in a TimeSeries.
11	[0..1]	objectAggregation ObjectAggregationKind_String	The identification of the domain that is the common denominator used to aggregate a time series.
12	[0..1]	curveType CurveType_String	The identification of the coded representation of the type of curve being described.

150

151 Table 8 shows all association ends of PlannedResource\_TimeSeries with other classes.

152  
153

**Table 8 - Association ends of Resource schedule confirmation assembly model::PlannedResource\_TimeSeries with other classes**

Order	mult.	Class name / Role	Description
13	[1..*]	Series_Period Series_Period	The time interval and resolution for a period associated with a TimeSeries. Association Based On: Resource schedule confirmation contextual model::PlannedResource_TimeSeries.[] ----- Resource schedule confirmation contextual model::Series_Period.Series_Period[1..*]
14	[0..*]	Reason Reason	Association Based On: Resource schedule confirmation contextual model::Reason.Reason[0..*] ----- Resource schedule confirmation contextual model::PlannedResource_TimeSeries.[]

154

155 **2.2.3.4. Point**

156 The identification of the values being addressed within a specific interval of time.

157 Table 9 shows all attributes of Point.

158 **Table 9 - Attributes of Resource schedule confirmation assembly model::Point**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	position Position_Integer	A sequential value representing the relative position within a given time interval.
1	[1..1]	quantity Decimal	The principal quantity identified for a point.

159

160 Table 10 shows all association ends of Point with other classes.

161 **Table 10 - Association ends of Resource schedule confirmation assembly model::Point**  
162 **with other classes**

Order	mult.	Class name / Role	Description
2	[0..*]	Reason Reason	The Reason information associated with a Point providing motivation information. Association Based On: Resource schedule confirmation contextual model::Point.[] ----- Resource schedule confirmation contextual model::Reason.Reason[0..*]

163

164 **2.2.3.5. Reason**

165 The motivation of an act.

166 Table 11 shows all attributes of Reason.

167 **Table 11 - Attributes of Resource schedule confirmation 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.

168

169 **2.2.3.6. Series\_Period**

170 The identification of the period of time corresponding to a given time interval and resolution.

171 Table 12 shows all attributes of Series\_Period.

172 **Table 12 - Attributes of Resource schedule confirmation assembly**  
173 **model::Series\_Period**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	timeInterval ESMP_DateTimeInterval	The start and end time of the period.
1	[1..1]	resolution Duration	The definition of the number of units of time that compose an individual step within a period.

174

175 Table 13 shows all association ends of Series\_Period with other classes.

176 **Table 13 - Association ends of Resource schedule confirmation assembly**  
177 **model::Series\_Period with other classes**

Order	mult.	Class name / Role	Description
2	[1..*]	Point Point	The Point information associated with a given Series_Period.within a TimeSeries. Association Based On: Resource schedule confirmation contextual model::Series_Period.[] ----- Resource schedule confirmation contextual model::Point.Point[1..*]

178

179 **2.2.3.7. UnavailableReserve\_TimeSeries**

180 A set of time-ordered quantities being exchanged in relation to a product.

181 Table 14 shows all attributes of UnavailableReserve\_TimeSeries.

182 **Table 14 - Attributes of Resource schedule confirmation assembly**  
183 **model::UnavailableReserve\_TimeSeries**

Order	mult.	Attribute name / Attribute type	Description
0	[1..1]	mRID ID_String	A unique identification of the time series.
1	[1..1]	businessType BusinessKind_String	The identification of the nature of the time series.

Order	mult.	Attribute name / Attribute type	Description
2	[0..1]	flowDirection.direction DirectionKind_String	The coded identification of the direction of energy flow. --- The flow direction associated with a TimeSeries.
3	[1..1]	product EnergyProductKind_String	The identification of the nature of an energy product such as power, energy, reactive power, etc.
4	[1..1]	connecting_Domain.mRID AreaID_String	The unique identification of the domain. --- The domain associated with a TimeSeries.
5	[0..1]	registeredResource.mRID ResourceID_String	The unique identification of a resource. --- The identification of a resource associated with a TimeSeries.
6	[0..1]	substitute_RegisteredResource.mRID ResourceID_String	The unique identification of a resource. --- The identification of a resource associated with a TimeSeries.
7	[1..1]	resourceProvider_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. --- The identification of a market participant associated with a TimeSeries.
8	[0..1]	substituteResourceProvider_MarketParticipant.mRID PartyID_String	The identification of a party in the energy market. In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification. Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context. Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this. For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements. --- The identification of a market participant associated with a TimeSeries.
9	[0..1]	substituteResourceProvider_MarketParticipant.marketRole.type MarketRoleKind_String	The identification of the role played by a market player. --- The identification of a market participant associated with a TimeSeries. --- The role associated with a MarketParticipant.
10	[1..1]	acquiring_Domain.mRID AreaID_String	The unique identification of the domain. --- The domain associated with a TimeSeries.

Order	mult.	Attribute name / Attribute type	Description
11	[0..1]	marketAgreement.type CapacityContractKind_String	The specification of the kind of the agreement, e.g. long term, daily contract. --- The identification of an agreement associated with a TimeSeries.
12	[0..1]	marketAgreement.mRID ID_String	The unique identification of the agreement. --- The identification of an agreement associated with a TimeSeries.
13	[1..1]	measurement_Unit.name MeasurementUnitKind_String	The identification of the formal code for a measurement unit (UN/ECE Recommendation 20). --- The unit of measure associated with the quantities in a TimeSeries.
14	[0..1]	objectAggregation ObjectAggregationKind_String	The identification of the domain that is the common denominator used to aggregate a time series.
15	[0..1]	curveType CurveType_String	The identification of the coded representation of the type of curve being described.

184

185 Table 15 shows all association ends of UnavailableReserve\_TimeSeries with other classes.

186 **Table 15 - Association ends of Resource schedule confirmation assembly**  
187 **model::UnavailableReserve\_TimeSeries with other classes**

Order	mult.	Class name / Role	Description
16	[1..*]	Series_Period Series_Period	The time interval and resolution for a period associated with a TimeSeries. Association Based On: Resource schedule confirmation contextual model::UnavailableReserve_TimeSeries.[] ----- Resource schedule confirmation contextual model::Series_Period.Series_Period[1..*]
17	[0..*]	Reason Reason	Association Based On: Resource schedule confirmation contextual model::Reason.Reason[0..*] ----- Resource schedule confirmation contextual model::UnavailableReserve_TimeSeries.[]

188

189



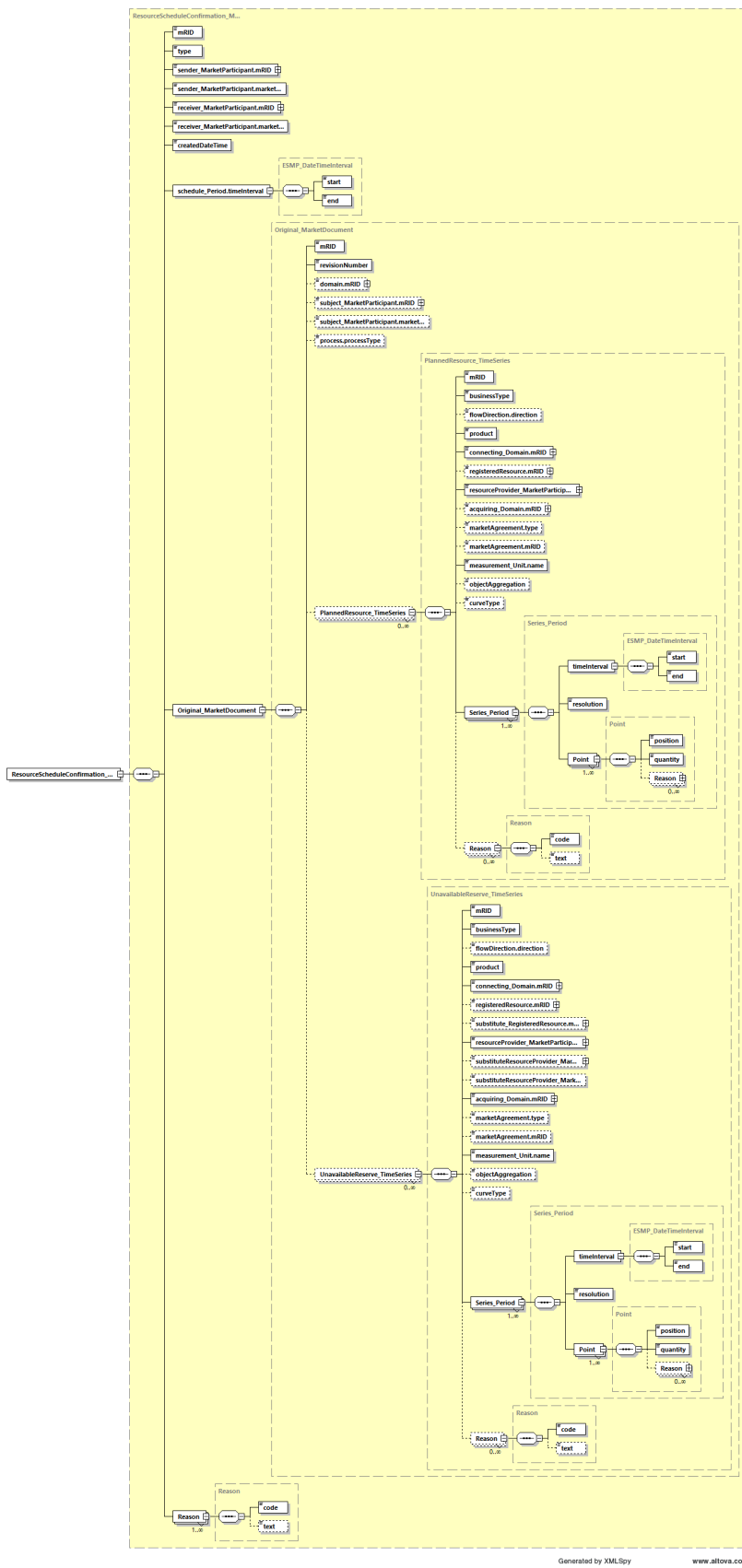
190

#### 191 **2.2.4. Datatypes**

192 The list of datatypes used for the Resource schedule confirmation assembly model is as follows:

- 193 • ESMP\_DateTimeInterval compound
- 194 • AreaID\_String datatype, codelist CodingSchemeTypeList
- 195 • BusinessKind\_String datatype, codelist BusinessTypeList
- 196 • CapacityContractKind\_String datatype, codelist ContractTypeList
- 197 • CurveType\_String datatype, codelist CurveTypeList
- 198 • DirectionKind\_String datatype, codelist DirectionTypeList
- 199 • EnergyProductKind\_String datatype, codelist EnergyProductTypeList
- 200 • ESMP\_DateTime datatype
- 201 • ESMPVersion\_String datatype
- 202 • ID\_String datatype
- 203 • MarketRoleKind\_String datatype, codelist RoleTypeList
- 204 • MeasurementUnitKind\_String datatype, codelist UnitOfMeasureTypeList
- 205 • MessageKind\_String datatype, codelist MessageTypeList
- 206 • ObjectAggregationKind\_String datatype, codelist ObjectAggregationTypeList
- 207 • PartyID\_String datatype, codelist CodingSchemeTypeList
- 208 • Position\_Integer datatype
- 209 • ProcessKind\_String datatype, codelist ProcessTypeList
- 210 • ReasonCode\_String datatype, codelist ReasonCodeTypeList
- 211 • ReasonText\_String datatype
- 212 • ResourceID\_String datatype, codelist CodingSchemeTypeList
- 213 • YMDHM\_DateTime datatype
- 214

215 2.2.5. ResourceScheduleConfirmation\_MarketDocument XML schema structure



216  
 217

Figure 3 - ResourceScheduleConfirmation\_MarketDocument schema structure

## 218 2.2.6. ResourceScheduleConfirmation\_MarketDocument XML schema

219

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

221 urn:iec62325.351:tc57wg16:451-7:resourcescheduleconfirmationdocument:6:2

```
222 <?xml version="1.0" encoding="utf-8"?>
223 <xs:schema xmlns:ecl="urn:entsoe.eu:wgedi:codelists"
224 xmlns="urn:iec62325.351:tc57wg16:451-7:resourcescheduleconfirmationdocument:6:2"
225 xmlns:sawsdl="http://www.w3.org/ns/sawsdl"
226 xmlns:cimp="http://www.iec.ch/cimprofile"
227 xmlns:xs="http://www.w3.org/2001/XMLSchema"
228 targetNamespace="urn:iec62325.351:tc57wg16:451-
229 7:resourcescheduleconfirmationdocument:6:2" elementFormDefault="qualified"
230 attributeFormDefault="unqualified">
231   <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-
232 entsoe-eu-wgedi-codelists.xsd"/>
233   <xs:element name="ResourceScheduleConfirmation_MarketDocument"
234 type="ResourceScheduleConfirmation_MarketDocument"/>
235   <xs:simpleType name="ID_String"
236 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
237     <xs:restriction base="xs:string">
238       <xs:maxLength value="60"/>
239     </xs:restriction>
240   </xs:simpleType>
241   <xs:simpleType name="ESMPVersion_String"
242 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
243     <xs:restriction base="xs:string">
244       <xs:pattern value="[1-9]([0-9]){0,2}"/>
245     </xs:restriction>
246   </xs:simpleType>
247   <xs:simpleType name="AreaID_String-base"
248 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
249     <xs:restriction base="xs:string">
250       <xs:maxLength value="18"/>
251     </xs:restriction>
252   </xs:simpleType>
253   <xs:complexType name="AreaID_String"
254 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
255     <xs:simpleContent>
256       <xs:extension base="AreaID_String-base">
257         <xs:attribute name="codingScheme"
258 type="ecl:CodingSchemeTypeList" use="required"/>
259       </xs:extension>
260     </xs:simpleContent>
261   </xs:complexType>
262   <xs:simpleType name="PartyID_String-base"
263 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
264     <xs:restriction base="xs:string">
265       <xs:maxLength value="16"/>
266     </xs:restriction>
267   </xs:simpleType>
268   <xs:complexType name="PartyID_String"
269 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
270     <xs:simpleContent>
```

```
271         <xs:extension base="PartyID_String-base">
272             <xs:attribute name="codingScheme"
273 type="ecl:CodingSchemeTypeList" use="required"/>
274         </xs:extension>
275     </xs:simpleContent>
276 </xs:complexType>
277 <xs:simpleType name="MarketRoleKind_String"
278 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
279     <xs:restriction base="ecl:RoleTypeList"/>
280 </xs:simpleType>
281 <xs:simpleType name="ProcessKind_String"
282 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
283     <xs:restriction base="ecl:ProcessTypeList"/>
284 </xs:simpleType>
285 <xs:complexType name="Original_MarketDocument"
286 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">
287     <xs:sequence>
288         <xs:element name="mRID" type="ID_String" minOccurs="1"
289 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
290 cim16#IdentifiedObject.mRID"/>
291         <xs:element name="revisionNumber" type="ESMPVersion_String"
292 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
293 schema-cim16#Document.revisionNumber"/>
294         <xs:element name="domain.mRID" type="AreaID_String"
295 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
296 schema-cim16#IdentifiedObject.mRID"/>
297         <xs:element name="subject_MarketParticipant.mRID"
298 type="PartyID_String" minOccurs="0" maxOccurs="1"
299 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
300 cim16#IdentifiedObject.mRID"/>
301         <xs:element name="subject_MarketParticipant.marketRole.type"
302 type="MarketRoleKind_String" minOccurs="0" maxOccurs="1"
303 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
304         <xs:element name="process.processType"
305 type="ProcessKind_String" minOccurs="0" maxOccurs="1"
306 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
307 cim16#Process.processType"/>
308         <xs:element name="PlannedResource_TimeSeries"
309 type="PlannedResource_TimeSeries" minOccurs="0" maxOccurs="unbounded"
310 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
311 cim16#MarketDocument.PlannedResource_TimeSeries"/>
312         <xs:element name="UnavailableReserve_TimeSeries"
313 type="UnavailableReserve_TimeSeries" minOccurs="0" maxOccurs="unbounded"
314 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
315 cim16#MarketDocument.UnavailableReserve_TimeSeries"/>
316     </xs:sequence>
317 </xs:complexType>
318 <xs:simpleType name="BusinessKind_String"
319 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
320     <xs:restriction base="ecl:BusinessTypeList"/>
321 </xs:simpleType>
322 <xs:simpleType name="DirectionKind_String"
323 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
324     <xs:restriction base="ecl:DirectionTypeList"/>
325 </xs:simpleType>
```

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326     <xs:simpleType name="EnergyProductKind_String"
327 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
328     <xs:restriction base="ecl:EnergyProductTypeList"/>
329 </xs:simpleType>
330 <xs:simpleType name="ResourceID_String-base"
331 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
332     <xs:restriction base="xs:string">
333     <xs:maxLength value="60"/>
334     </xs:restriction>
335 </xs:simpleType>
336 <xs:complexType name="ResourceID_String"
337 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
338     <xs:simpleContent>
339     <xs:extension base="ResourceID_String-base">
340     <xs:attribute name="codingScheme"
341 type="ecl:CodingSchemeTypeList" use="required"/>
342     </xs:extension>
343     </xs:simpleContent>
344 </xs:complexType>
345 <xs:simpleType name="CapacityContractKind_String"
346 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
347     <xs:restriction base="ecl:ContractTypeList"/>
348 </xs:simpleType>
349 <xs:simpleType name="MeasurementUnitKind_String"
350 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
351     <xs:restriction base="ecl:UnitOfMeasureTypeList"/>
352 </xs:simpleType>
353 <xs:simpleType name="ObjectAggregationKind_String"
354 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
355     <xs:restriction base="ecl:ObjectAggregationTypeList"/>
356 </xs:simpleType>
357 <xs:simpleType name="CurveType_String"
358 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
359     <xs:restriction base="ecl:CurveTypeList"/>
360 </xs:simpleType>
361 <xs:complexType name="PlannedResource_TimeSeries"
362 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TimeSeries">
363     <xs:sequence>
364     <xs:element name="mRID" type="ID_String" minOccurs="1"
365 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
366 cim16#IdentifiedObject.mRID"/>
367     <xs:element name="businessType" type="BusinessKind_String"
368 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
369 schema-cim16#TimeSeries.businessType"/>
370     <xs:element name="flowDirection.direction"
371 type="DirectionKind_String" minOccurs="0" maxOccurs="1"
372 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
373 cim16#FlowDirection.direction"/>
374     <xs:element name="product" type="EnergyProductKind_String"
375 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
376 schema-cim16#TimeSeries.product"/>
377     <xs:element name="connecting_Domain.mRID" type="AreaID_String"
378 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
379 schema-cim16#IdentifiedObject.mRID"/>
380     <xs:element name="registeredResource.mRID"
381 type="ResourceID_String" minOccurs="0" maxOccurs="1"
```

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382 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
383 cim16#IdentifiedObject.mRID"/>
384 <xs:element name="resourceProvider_MarketParticipant.mRID"
385 type="PartyID_String" minOccurs="1" maxOccurs="1"
386 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
387 cim16#IdentifiedObject.mRID"/>
388 <xs:element name="acquiring_Domain.mRID" type="AreaID_String"
389 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
390 schema-cim16#IdentifiedObject.mRID"/>
391 <xs:element name="marketAgreement.type"
392 type="CapacityContractKind_String" minOccurs="0" maxOccurs="1"
393 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.type"/>
394 <xs:element name="marketAgreement.mRID" type="ID_String"
395 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
396 schema-cim16#IdentifiedObject.mRID"/>
397 <xs:element name="measurement_Unit.name"
398 type="MeasurementUnitKind_String" minOccurs="1" maxOccurs="1"
399 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Unit.name"/>
400 <xs:element name="objectAggregation"
401 type="ObjectAggregationKind_String" minOccurs="0" maxOccurs="1"
402 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
403 cim16#TimeSeries.objectAggregation"/>
404 <xs:element name="curveType" type="CurveType_String"
405 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
406 schema-cim16#TimeSeries.curveType"/>
407 <xs:element name="Series_Period" type="Series_Period"
408 minOccurs="1" maxOccurs="unbounded"
409 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
410 cim16#TimeSeries.Series_Period"/>
411 <xs:element name="Reason" type="Reason" minOccurs="0"
412 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
413 cim16#TimeSeries.Reason"/>
414 </xs:sequence>
415 </xs:complexType>
416 <xs:simpleType name="Position_Integer"
417 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Integer">
418 <xs:restriction base="xs:integer">
419 <xs:maxInclusive value="999999"/>
420 <xs:minInclusive value="1"/>
421 </xs:restriction>
422 </xs:simpleType>
423 <xs:complexType name="Point"
424 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Point">
425 <xs:sequence>
426 <xs:element name="position" type="Position_Integer"
427 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
428 schema-cim16#Point.position"/>
429 <xs:element name="quantity" type="xs:decimal" minOccurs="1"
430 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
431 cim16#Point.quantity"/>
432 <xs:element name="Reason" type="Reason" minOccurs="0"
433 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
434 cim16#Point.Reason"/>
435 </xs:sequence>
436 </xs:complexType>
```

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437     <xs:simpleType name="ReasonCode_String"
438 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
439     <xs:restriction base="ecl:ReasonCodeTypeList"/>
440     </xs:simpleType>
441     <xs:simpleType name="ReasonText_String"
442 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
443     <xs:restriction base="xs:string">
444     <xs:maxLength value="512"/>
445     </xs:restriction>
446     </xs:simpleType>
447     <xs:complexType name="Reason"
448 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Reason">
449     <xs:sequence>
450     <xs:element name="code" type="ReasonCode_String" minOccurs="1"
451 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
452 cim16#Reason.code"/>
453     <xs:element name="text" type="ReasonText_String" minOccurs="0"
454 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
455 cim16#Reason.text"/>
456     </xs:sequence>
457     </xs:complexType>
458     <xs:simpleType name="MessageKind_String"
459 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
460     <xs:restriction base="ecl:MessageTypeList"/>
461     </xs:simpleType>
462     <xs:simpleType name="ESMP_DateTime"
463 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
464     <xs:restriction base="xs:dateTime">
465     <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02])[\-](0[1-
466 9]|[12][0-9]|3[01]))|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|[12][0-
467 9]|30))T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-
468 9])Z)|(((13579)[26][02468][048]|13579[01345789](0)[48]|13579[01345789][2468][0
469 48]|02468[048][02468][048]|02468[1235679](0)[48]|02468[1235679][2468][048]|
470 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-
471 5][0-9]:[0-5][0-
472 9])Z)|(((13579)[26][02468][1235679]|13579[01345789](0)[01235679]|13579[0134578
473 9][2468][1235679]|02468[048][02468][1235679]|02468[1235679](0)[01235679]|0246
474 8][1235679][2468][1235679]|0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
475 9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])Z)"/>
476     </xs:restriction>
477     </xs:simpleType>
478     <xs:simpleType name="YMDHM_DateTime"
479 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
480     <xs:restriction base="xs:string">
481     <xs:pattern value="((([0-9]{4})[\-](0[13578]|1[02])[\-](0[1-
482 9]|[12][0-9]|3[01]))|([0-9]{4})[\-]((0[469])|(11))[\-](0[1-9]|[12][0-
483 9]|30))T((([01][0-9]|2[0-3]):[0-5][0-
484 9])Z)|(((13579)[26][02468][048]|13579[01345789](0)[48]|13579[01345789][2468][0
485 48]|02468[048][02468][048]|02468[1235679](0)[48]|02468[1235679][2468][048]|
486 0-9][0-9][13579][26])[\-](02)[\-](0[1-9]|1[0-9]|2[0-9])T((([01][0-9]|2[0-3]):[0-
487 5][0-
488 9])Z)|(((13579)[26][02468][1235679]|13579[01345789](0)[01235679]|13579[0134578
489 9][2468][1235679]|02468[048][02468][1235679]|02468[1235679](0)[01235679]|0246
490 8][1235679][2468][1235679]|0-9][0-9][13579][01345789])[\-](02)[\-](0[1-9]|1[0-
491 9]|2[0-8])T((([01][0-9]|2[0-3]):[0-5][0-9]:[0-5][0-9])Z)"/>
492     </xs:restriction>
```

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493     </xs:simpleType>
494     <xs:complexType name="ESMP_DateTimeInterval"
495 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTimeInterval">
496         <xs:sequence>
497             <xs:element name="start" type="YMDHM_DateTime" minOccurs="1"
498 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
499 cim16#DateTimeInterval.start"/>
500             <xs:element name="end" type="YMDHM_DateTime" minOccurs="1"
501 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
502 cim16#DateTimeInterval.end"/>
503         </xs:sequence>
504     </xs:complexType>
505     <xs:complexType name="ResourceScheduleConfirmation_MarketDocument"
506 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketDocument">
507         <xs:sequence>
508             <xs:element name="mRID" type="ID_String" minOccurs="1"
509 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
510 cim16#IdentifiedObject.mRID"/>
511             <xs:element name="type" type="MessageKind_String" minOccurs="1"
512 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
513 cim16#Document.type"/>
514             <xs:element name="sender_MarketParticipant.mRID"
515 type="PartyID_String" minOccurs="1" maxOccurs="1"
516 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
517 cim16#IdentifiedObject.mRID"/>
518             <xs:element name="sender_MarketParticipant.marketRole.type"
519 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
520 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
521             <xs:element name="receiver_MarketParticipant.mRID"
522 type="PartyID_String" minOccurs="1" maxOccurs="1"
523 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
524 cim16#IdentifiedObject.mRID"/>
525             <xs:element name="receiver_MarketParticipant.marketRole.type"
526 type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
527 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
528             <xs:element name="createdDateTime" type="ESMP_DateTime"
529 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
530 schema-cim16#Document.createdDateTime"/>
531             <xs:element name="schedule_Period.timeInterval"
532 type="ESMP_DateTimeInterval" minOccurs="1" maxOccurs="1"
533 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
534 cim16#Period.timeInterval"/>
535             <xs:element name="Original_MarketDocument"
536 type="Original_MarketDocument" minOccurs="1" maxOccurs="1"
537 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
538 cim16#MarketDocument.Original_MarketDocument"/>
539             <xs:element name="Reason" type="Reason" minOccurs="1"
540 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
541 cim16#MarketDocument.Reason"/>
542         </xs:sequence>
543     </xs:complexType>
544     <xs:complexType name="Series_Period"
545 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Period">
546         <xs:sequence>
```



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547         <xs:element name="timeInterval" type="ESMP_DateTimeInterval"
548 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
549 schema-cim16#Period.timeInterval"/>
550         <xs:element name="resolution" type="xs:duration" minOccurs="1"
551 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
552 cim16#Period.resolution"/>
553         <xs:element name="Point" type="Point" minOccurs="1"
554 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
555 cim16#Period.Point"/>
556     </xs:sequence>
557 </xs:complexType>
558 <xs:complexType name="UnavailableReserve_TimeSeries"
559 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TimeSeries">
560     <xs:sequence>
561         <xs:element name="mRID" type="ID_String" minOccurs="1"
562 maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
563 cim16#IdentifiedObject.mRID"/>
564         <xs:element name="businessType" type="BusinessKind_String"
565 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
566 schema-cim16#TimeSeries.businessType"/>
567         <xs:element name="flowDirection.direction"
568 type="DirectionKind_String" minOccurs="0" maxOccurs="1"
569 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
570 cim16#FlowDirection.direction"/>
571         <xs:element name="product" type="EnergyProductKind_String"
572 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
573 schema-cim16#TimeSeries.product"/>
574         <xs:element name="connecting_Domain.mRID" type="AreaID_String"
575 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
576 schema-cim16#IdentifiedObject.mRID"/>
577         <xs:element name="registeredResource.mRID"
578 type="ResourceID_String" minOccurs="0" maxOccurs="1"
579 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
580 cim16#IdentifiedObject.mRID"/>
581         <xs:element name="substitute_RegisteredResource.mRID"
582 type="ResourceID_String" minOccurs="0" maxOccurs="1"
583 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
584 cim16#IdentifiedObject.mRID"/>
585         <xs:element name="resourceProvider_MarketParticipant.mRID"
586 type="PartyID_String" minOccurs="1" maxOccurs="1"
587 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
588 cim16#IdentifiedObject.mRID"/>
589         <xs:element
590 name="substituteResourceProvider_MarketParticipant.mRID" type="PartyID_String"
591 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
592 schema-cim16#IdentifiedObject.mRID"/>
593         <xs:element
594 name="substituteResourceProvider_MarketParticipant.marketRole.type"
595 type="MarketRoleKind_String" minOccurs="0" maxOccurs="1"
596 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
597         <xs:element name="acquiring_Domain.mRID" type="AreaID_String"
598 minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
599 schema-cim16#IdentifiedObject.mRID"/>
600         <xs:element name="marketAgreement.type"
601 type="CapacityContractKind_String" minOccurs="0" maxOccurs="1"
602 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.type"/>
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603         <xs:element name="marketAgreement.mRID" type="ID_String"
604 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
605 schema-cim16#IdentifiedObject.mRID"/>
606         <xs:element name="measurement_Unit.name"
607 type="MeasurementUnitKind_String" minOccurs="1" maxOccurs="1"
608 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Unit.name"/>
609         <xs:element name="objectAggregation"
610 type="ObjectAggregationKind_String" minOccurs="0" maxOccurs="1"
611 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
612 cim16#TimeSeries.objectAggregation"/>
613         <xs:element name="curveType" type="CurveType_String"
614 minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
615 schema-cim16#TimeSeries.curveType"/>
616         <xs:element name="Series_Period" type="Series_Period"
617 minOccurs="1" maxOccurs="unbounded"
618 sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
619 cim16#TimeSeries.Series_Period"/>
620         <xs:element name="Reason" type="Reason" minOccurs="0"
621 maxOccurs="unbounded" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
622 cim16#TimeSeries.Reason"/>
623     </xs:sequence>
624 </xs:complexType>
625 </xs:schema>
626
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