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## Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Release</th>
<th>Date</th>
<th>Comments</th>
</tr>
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<tr>
<td>0</td>
<td>0</td>
<td>2017-01-19</td>
<td>First drafting of the document.</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>2017-01-30</td>
<td>Version to be submitted to Market Committee following WG EDI meeting in March 2017.</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>2022-02-01</td>
<td>Updates in reporting status document XSD v2.1:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Quantity_Measure_Unit.name attribute was renamed to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Quantity_Measurement_Unit.name to be compliant with the ESMP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• mRID of Document, Series and Timeseries (ID_String type) was enlarged</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>from 35 to 60 characters.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Approved by MC.</td>
</tr>
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</table>
Objective

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

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

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

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

- Description of the business process;
- Use case of the business process;
- Sequence diagrams of the business process;
- List of the schema (XSD) to be used in the business process and versions of the schema;
- For each schema, dependency tables providing the necessary information for the generation of the XML instances, i.e. when the optional attributes are to be used, which codes from which ENTSO-E codelist are to be used.
2.1 Reporting status contextual model

2.1.1 Overview of the model

Figure 1 shows the model.
2.1.2 IsBasedOn relationships from the European style market profile

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Complete IsBasedOn Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectingLine_RegistedResource</td>
<td>TC57CIM::IEC62325::MarketCommon::RegisteredResource</td>
</tr>
<tr>
<td>Domain</td>
<td>TC57CIM::IEC62325::MarketManagement::Domain</td>
</tr>
<tr>
<td>MarketParticipant</td>
<td>TC57CIM::IEC62325::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>MarketRole</td>
<td>TC57CIM::IEC62325::MarketCommon::MarketRole</td>
</tr>
<tr>
<td>Measure_Unit</td>
<td>TC57CIM::IEC62325::MarketManagement::Unit</td>
</tr>
<tr>
<td>Original_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Original_TimeSeries</td>
<td>TC57CIM::IEC62325::MarketManagement::TimeSeries</td>
</tr>
<tr>
<td>OriginalSender_MarketParticipant</td>
<td>TC57CIM::IEC62325::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>Point</td>
<td>TC57CIM::IEC62325::MarketManagement::Point</td>
</tr>
<tr>
<td>Process</td>
<td>TC57CIM::IEC62325::MarketManagement::Process</td>
</tr>
<tr>
<td>Reason</td>
<td>TC57CIM::IEC62325::MarketManagement::Reason</td>
</tr>
<tr>
<td>ReportingStatus_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Series_Period</td>
<td>TC57CIM::IEC62325::MarketManagement::Period</td>
</tr>
<tr>
<td>Time_Period</td>
<td>TC57CIM::IEC62325::MarketManagement::Period</td>
</tr>
<tr>
<td>TimeSeries</td>
<td>TC57CIM::IEC62325::MarketManagement::TimeSeries</td>
</tr>
</tbody>
</table>
2.2 Reporting status assembly model

2.2.1 Overview of the model

Figure 2 shows the model.

```
class Reporting status assembly model
«MBIE»

  ReportingStatus_MarketDocument
  + mRID: ID_String
  + revisionNumber: ESMPVersion_String
  + type: MessageKind_String
  + process.processType: ProcessKind_String
  + sender_MarketParticipant.mRID: PartyID_String
  + sender_MarketParticipant.marketRole.type: MarketRoleKind_String
  + receiver_MarketParticipant.mRID: PartyID_String
  + receiver_MarketParticipant.marketRole.type: MarketRoleKind_String
  + createdDateTime: ESMP_DateTime
  + time_Period.timeInterval: ESMP_DateTimeInterval
  + domain.mRID: AreaID_String [0..1]

  + TimeSeries 0..* 

«MBIE»

  TimeSeries
  + mRID: ID_String
  + original_MarketDocument.mRID: ID_String
  + original_MarketDocument.revisionNumber: ESMPVersion_String
  + original_MarketDocument.originalSender_MarketParticipant.mRID: PartyID_String
  + original_MarketDocument.original_Domain.mRID: AreaID_String
  + businessType: BusinessKind_String
  + product: EnergyProductKind_String
  + in_Domain.mRID: AreaID_String
  + out_Domain.mRID: AreaID_String
  + connectingLine_RegisteredResource.mRID: ResourceID_String [0..1]
  + quantity_Measurement_Unit.name: MeasurementUnitKind_String
  + curveType: CurveType_String

  + Reason 0..* 

«MBIE»

  Reason
  + code: ReasonCode_String
  + text: ReasonText_String [0..1]

  + Reason 0..* 

«MBIE»

  Series_Period
  + timeInterval: ESMP_DateTimeInterval
  + resolution: Duration

  + Point 1..* 

«MBIE»

  Point
  + position: Position_Integer
  + quantity: Decimal
```

Figure 2 - Reporting status assembly model
2.2.2 IsBasedOn relationships from the European style market profile

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Complete IsBasedOn Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point</td>
<td>TC57CIM::IEC62325::MarketManagement::Point</td>
</tr>
<tr>
<td>Reason</td>
<td>TC57CIM::IEC62325::MarketManagement::Reason</td>
</tr>
<tr>
<td>ReportingStatus_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Series_Period</td>
<td>TC57CIM::IEC62325::MarketManagement::Period</td>
</tr>
<tr>
<td>TimeSeries</td>
<td>TC57CIM::IEC62325::MarketManagement::TimeSeries</td>
</tr>
</tbody>
</table>

2.2.3 Detailed Reporting status assembly model

2.2.3.1 ReportingStatus_MarketDocument root class

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

The reporting status market document is to be used to report the status of aggregated netted external market schedules, aggregated netted external TSO schedules and compensation program schedules on a given border.

Table 3 shows all attributes of ReportingStatus_MarketDocument.

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Attribute name / Attribute type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[1..1]</td>
<td>mRID ID_String</td>
<td>The unique identification of the document being exchanged within a business process flow.</td>
</tr>
<tr>
<td>1</td>
<td>[1..1]</td>
<td>revisionNumber ESMPVersion_String</td>
<td>The identification of the version that distinguishes one evolution of a document from another.</td>
</tr>
<tr>
<td>3</td>
<td>[1..1]</td>
<td>process.processType ProcessKind_String</td>
<td>The identification of the nature of process that the document addresses. -- The process dealt with in the document.</td>
</tr>
<tr>
<td>4</td>
<td>[1..1]</td>
<td>sender_MarketParticipant.mRID PartyID_String</td>
<td>The identification of a party in the energy market. -- The sender of the document.</td>
</tr>
<tr>
<td>5</td>
<td>[1..1]</td>
<td>sender_MarketParticipant.marketRole.type MarketRoleKind_String</td>
<td>The identification of the role played by a market player. -- The sender of the document. -- The role associated with the market participant.</td>
</tr>
<tr>
<td>6</td>
<td>[1..1]</td>
<td>receiver_MarketParticipant.mRID PartyID_String</td>
<td>The identification of a party in the energy market. -- The recipient of the document.</td>
</tr>
<tr>
<td>7</td>
<td>[1..1]</td>
<td>receiver_MarketParticipant.marketRole.type MarketRoleKind_String</td>
<td>The identification of the role played by a market player. -- The recipient of the document. -- The role associated with the market participant.</td>
</tr>
<tr>
<td>8</td>
<td>[1..1]</td>
<td>createdDateTime ESMP_DateTime</td>
<td>The date and time of the creation of the document.</td>
</tr>
</tbody>
</table>
### Table 4 - Association ends of Reporting status assembly model::ReportingStatus_MarketDocument with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>[0..*]</td>
<td>TimeSeries</td>
<td>The time series that is associated with an electronic document. Association Based On: Reporting status contextual model::ReportingStatus_MarketDocument[].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TimeSeries</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>[0..*]</td>
<td>Reason</td>
<td>The Reason associated with the electronic document header providing different motivations for the creation of the document. Association Based On: Reporting status contextual model::ReportingStatus_MarketDocument[].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reason</td>
<td></td>
</tr>
</tbody>
</table>

### 2.2.3.2 Point

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

Table 5 shows all attributes of Point.

### Table 5 - Attributes of Reporting status assembly model::Point

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Attribute name / Attribute type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[1..1]</td>
<td>position</td>
<td>A sequential value representing the relative position within a given time interval.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Position_Integer</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>[1..1]</td>
<td>quantity</td>
<td>The principal quantity identified for a point. The quantity of the product scheduled for the position within the time interval.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Decimal</td>
<td></td>
</tr>
</tbody>
</table>

Table 6 shows all association ends of Point with other classes.
Table 6 - Association ends of Reporting status assembly model::Point with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>[0..*]</td>
<td>Reason</td>
<td>The Reason information associated with a Point providing motivation information. Association Based On: Reporting status contextual model::Point.[] Reporting status contextual model::Reason.Reason[0..*]</td>
</tr>
</tbody>
</table>

2.2.3.3 Reason
The motivation of an act.
Table 7 shows all attributes of Reason.

Table 7 - Attributes of Reporting status assembly model::Reason

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Attribute name / Attribute type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[1..1]</td>
<td>code</td>
<td>The motivation of an act in coded form.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ReasonCode_String</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>[0..1]</td>
<td>text</td>
<td>The textual explanation corresponding to the reason code.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ReasonText_String</td>
<td></td>
</tr>
</tbody>
</table>

2.2.3.4 Series_Period
The identification of the period of time corresponding to a given time interval and resolution.
Table 8 shows all attributes of Series_Period.

Table 8 - Attributes of Reporting status assembly model::Series_Period

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

Table 9 shows all association ends of Series_Period with other classes.

Table 9 - Association ends of Reporting status assembly model::Series_Period with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>[1..*]</td>
<td>Point</td>
<td>The Point information associated with a given Series_Period within a TimeSeries. Association Based On: Reporting status contextual model::Series_Period.[] Reporting status contextual model::Point.Point[1..*]</td>
</tr>
</tbody>
</table>

2.2.3.5 TimeSeries
A set of time-ordered quantities being exchanged in relation to a product.
Table 10 shows all attributes of TimeSeries.

Table 10 - Attributes of Reporting status assembly model::TimeSeries

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Attribute name / Attribute type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[1..1]</td>
<td>mRID ID_String</td>
<td>A unique identification of the time series.</td>
</tr>
<tr>
<td>1</td>
<td>[1..1]</td>
<td>original_MarketDocument.mRID ID_String</td>
<td>The unique identification of the document being exchanged within a business process flow.</td>
</tr>
<tr>
<td>2</td>
<td>[1..1]</td>
<td>original_MarketDocument.revisionNumber ESMPVersion_String</td>
<td>The identification of the version that distinguishes one evolution of a document from another.</td>
</tr>
<tr>
<td>3</td>
<td>[1..1]</td>
<td>original_MarketDocument.originalSender_MarketParticipant.mRID PartyID_String</td>
<td>The identification of a party in the energy market.</td>
</tr>
<tr>
<td>4</td>
<td>[1..1]</td>
<td>original_MarketDocument.createdDateTime ESMP_DateTime</td>
<td>The date and time of the creation of the document.</td>
</tr>
<tr>
<td>5</td>
<td>[1..1]</td>
<td>original_MarketDocument.original_Domain.mRID AreaID_String</td>
<td>The unique identification of the domain.</td>
</tr>
<tr>
<td>6</td>
<td>[1..1]</td>
<td>original_MarketDocument.original_TimeSeries.mRID ID_String</td>
<td>A unique identification of the time series.</td>
</tr>
</tbody>
</table>

In the ESMP context, the “model authority” is defined as a party (originator of the exchange) that provides a unique identification in the context of a business exchange such as time series identification, bid 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 an electronic document that is at the origin of the TimeSeries. --- The identification of the time series that was in the original reporting market document.
### Order | mult. | Attribute name / Attribute type | Description
--- | --- | --- | ---
7 | [1..1] | businessType
   BusinessKind_String | The identification of the nature of the time series.
8 | [1..1] | product
   EnergyProductKind_String | The identification of the nature of an energy product such as power, energy, reactive power, etc.
9 | [1..1] | in_Domain.mRID
   AreaID_String | The unique identification of the domain.
   --- The area where the product is being delivered.
10 | [1..1] | out_Domain.mRID
   AreaID_String | The unique identification of the domain.
   --- The area where the product is being extracted.
11 | [0..1] | connectingLine_RegisteredResource.mRID
   ResourceID_String | The unique identification of a resource.
   --- The identification of the DC link(s) or controllable AC link(s) between areas.
12 | [1..1] | quantity_Measurement_Unit.name
   MeasurementUnitKind_String | The identification of the formal code for a measurement unit (UN/ECE Recommendation 20).
   --- The unit of measure which is applied to the quantity in the Point class.
13 | [1..1] | curveType
   CurveType_String | The identification of the coded representation of the type of curve being described.

Table 11 shows all association ends of TimeSeries with other classes.

### Table 11 - Association ends of Reporting status assembly model::TimeSeries with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
</table>
| 14 | [1..*] | Series_Period
   Period | The time interval and resolution for a period associated with a TimeSeries.
   Association Based On:
   Reporting status contextual model::TimeSeries[]
   ----
   Reporting status contextual model::Series_Period.Period[1..*]
| 15 | [0..*] | Reason
   Reason | The reason information associated with a TimeSeries providing motivation information.
   Association Based On:
   Reporting status contextual model::Reason.Reason[0..*]
   ----
   Reporting status contextual model::TimeSeries[]

---

Page 13 of 21
2.2.4 Datatypes

The list of datatypes used for the Reporting status assembly model is as follows:

- ESMP_DateTimeInterval compound
- AreaID_String datatype, codelist CodingSchemeTypeList
- BusinessKind_String datatype, codelist BusinessTypeList
- CurveType_String datatype, codelist CurveTypeList
- EnergyProductKind_String datatype, codelist EnergyProductTypeList
- ESMP_DateTime datatype
- ESMPVersion_String datatype
- ID_String datatype
- MarketRoleKind_String datatype, codelist RoleTypeList
- MeasurementUnitKind_String datatype, codelist UnitOfMeasureTypeList
- MessageKind_String datatype, codelist MessageTypeList
- PartyID_String datatype, codelist CodingSchemeTypeList
- Position_Integer datatype
- ProcessKind_String datatype, codelist ProcessTypeList
- ReasonCode_String datatype, codelist ReasonCodeTypeList
- ReasonText_String datatype
- ResourceID_String datatype, codelist CodingSchemeTypeList
- YMDHM_DateTime datatype
2.2.5 ReportingStatus_MarketDocument XML schema structure

Figure 3 provides the structure of the schema.

Figure 3 - ReportingStatus_MarketDocument schema structure
2.2.6 ReportingStatus_MarketDocument XML schema

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

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ec1="urn:entsoe.eu:wgedi:codelists"
xmlns="urn:iec62325.351:tc57wg16:451-n:reportingstatusdocument:2:1"
xmlns:sawsdl="http://www.iec.ch/TC57/2013/CIM-schema-cim16#Point"
targetNamespace="urn:iec62325.351:tc57wg16:451-n:reportingstatusdocument:2:1"
elaborateFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-entsoe.eu-wgedi-codelists.xsd"/>
  <xs:element name="ReportingStatus_MarketDocument" type="ReportingStatus_MarketDocument"/>
  <xs:simpleType name="Position_Integer">
    <xs:restriction base="xs:integer">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="999999"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="Point">
    <xs:sequence>
      <xs:element name="position" type="Position_Integer"/>
      <xs:element name="quantity" type="xs:decimal" minOccurs="1" maxOccurs="unbounded"/>
      <xs:element name="Reason" type="Reason" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ReasonCode_String">
    <xs:restriction base="ec1:ReasonCodeTypeList"/>
  </xs:complexType>
  <xs:complexType name="ReasonText_String">
    <xs:restriction base="xs:string">
      <xs:maxLength value="512"/>
    </xs:restriction>
  </xs:complexType>
  <xs:complexType name="Reason">
    <xs:sequence>
      <xs:element name="code" type="ReasonCode_String" minOccurs="1" maxOccurs="unbounded"/>
      <xs:element name="text" type="ReasonText_String" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```
```xml
237   </xs:complexType>
238   <xs:simpleType name="ID_String">
239     sawsd1:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
240       <xs:restriction base="xs:string">
241         <xs:maxlength value="60"/>
242       </xs:restriction>
243     </xs:simpleType>
244   <xs:simpleType name="ESMPVersion_String">
245     sawsd1:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
246       <xs:restriction base="xs:string">
247         <xs:pattern value="[1-9]\{0,2\}"/>
248       </xs:restriction>
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252       <xs:restriction base="ecl:MessageTypeList"/>
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256       <xs:restriction base="ecl:ProcessTypeList"/>
257     </xs:simpleType>
258   <xs:simpleType name="PartyID_String_base">
259     sawsd1:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
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261         <xs:maxlength value="16"/>
262       </xs:restriction>
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266       <xs:complexType>
267         <xs:extension base="PartyID_String_base">
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269         </xs:extension>
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295 </xs:complexType>
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```

ENTSO-E Reporting status document – UML model and schema
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<xs:element name="sender_MarketParticipant.marketRole.type"

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