HISTORICAL ACTIVATION DOCUMENT
UML MODEL AND SCHEMA

2019-02-12
APPROVED DOCUMENT
VERSION 1.0
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Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Release</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2019-01-14</td>
<td>First draft of the document.</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>2019-02-12</td>
<td>Approved by MC.</td>
</tr>
</tbody>
</table>
1 Objective

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

2.1 Historical activation contextual model

2.1.1 Overview of the model

Figure 1 shows the model.

Figure 1 - Historical activation contextual 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 1 - IsBasedOn dependency**

<table>
<thead>
<tr>
<th>Name</th>
<th>Complete IsBasedOn Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activation_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Domain</td>
<td>TC57CIM::IEC62325::MarketManagement::Domain</td>
</tr>
<tr>
<td>FlowDirection</td>
<td>TC57CIM::IEC62325::MarketManagement::FlowDirection</td>
</tr>
<tr>
<td>HistoricalActivation_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>MarketObjectStatus</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketObjectStatus</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_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>RegisteredResource</td>
<td>TC57CIM::IEC62325::MarketCommon::RegisteredResource</td>
</tr>
<tr>
<td>ResourceProvider_MarketParticipant</td>
<td>TC57CIM::IEC62325::MarketCommon::MarketParticipant</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 Historical activation assembly model

2.2.1 Overview of the model

Figure 2 shows the 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>HistoricalActivation_MarketDocument</td>
<td>TC57CIM::IEC62325::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Point</td>
<td>TC57CIM::IEC62325::MarketManagement::Point</td>
</tr>
<tr>
<td>Reason</td>
<td>TC57CIM::IEC62325::MarketManagement::Reason</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 Historical activation assembly model

2.2.3.1 HistoricalActivation_MarketDocument root class

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

Table 3 shows all attributes of HistoricalActivation_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 RevisionVersion_String</td>
<td>The identification of the version that distinguishes one evolution of a document from another.</td>
</tr>
<tr>
<td>3</td>
<td>[0..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. --- Document owner.</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. --- Document owner. --- The role associated with a MarketParticipant.</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. --- Document recipient.</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. --- Document recipient. --- The role associated with a MarketParticipant.</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>
<tr>
<td>9</td>
<td>[1..1]</td>
<td>time_Period.timeInterval ESMP_DateTimeInterval</td>
<td>The start and end date and time for a given interval. --- This information provides the start and end date and time of the activation time interval.</td>
</tr>
</tbody>
</table>
Table 4 shows all association ends of HistoricalActivation_MarketDocument with other classes.

Table 4 - Association ends of Historical activation assembly
model::HistoricalActivation_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: Historical activation contextual model::HistoricalActivation_MarketDocument[].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TimeSeries</td>
<td>Historical activation contextual model::TimeSeries.TimeSeries[0..*]</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 Historical activation 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.</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 Historical activation 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>At the Point level the reason code is used to identify the nature of a curtailment that has been imposed on the specified quantity. The Reason information associated with a Point providing motivation information. Association Based On: Historical activation contextual model::Point[].</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reason</td>
<td>Historical activation 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 Historical activation 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 ReasonCode_String</td>
<td>The motivation of an act in coded form.</td>
</tr>
<tr>
<td>1</td>
<td>[0..1]</td>
<td>text ReasonText_String</td>
<td>The textual explanation corresponding to the reason code.</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 Historical activation 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 ESMP_DateTimeInterval</td>
<td>The start and end time of the period.</td>
</tr>
<tr>
<td>1</td>
<td>[1..1]</td>
<td>resolution Duration</td>
<td>The definition of the number of units of time that compose an individual step within a period.</td>
</tr>
</tbody>
</table>

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

### Table 9 - Association ends of Historical activation 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: Historical activation contextual model::Series_Period.[]</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 Historical activation 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>[0..1]</td>
<td>activation_Original_MarketDocument.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>[0..1]</td>
<td>activation_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>2</td>
<td>[0..1]</td>
<td>activation_Original_MarketDocument.activation_Process.processType ProcessKind_String</td>
<td>The identification of the nature of process that the document addresses.</td>
</tr>
</tbody>
</table>
Table 11 shows all association ends of TimeSeries with other classes.

### Table 11 - Association ends of Historical activation 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>
| 15    | [0..*] | Series_Period.Period | The time interval and resolution for a period associated with a TimeSeries. Association Based On: Historical activation contextual model::TimeSeries.[]
|       |       |                   |              |
|       |       |                   |              |
| 16    | [0..*] | Reason.Reason | Association Based On: Historical activation contextual model::TimeSeries.[]
|       |       |                   |              |
|       |       |                   |              |
2.2.4 Datatypes

The list of datatypes used for the Historical activation assembly model is as follows:

- ESMP_DateTimeInterval compound
- AreaID_String datatype, codelist CodingSchemeTypeList
- BusinessKind_String datatype, codelist BusinessTypeList
- DirectionKind_String datatype, codelist DirectionTypeList
- 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
- Status_String datatype, codelist StatusTypeList
- YMDHM_DateTime datatype
2.2.5 HistoricalActivation_MarketDocument XML schema structure

Figure 3 - HistoricalActivation_MarketDocument schema structure
2.2.6 HistoricalActivation_MarketDocument XML schema

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

urn:ieeiec62325.351tc57wg16:451-7:historicalactivationdocument:6:0

```xml
  targetNamespace="urn:ieeiec62325.351tc57wg16:451-7:historicalactivationdocument:6:0"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:import namespace="urn:entsoe:eu:wgedi:codelist" schemaLocation="urn:entsoe:eu:wgedi-
codellists.xsd"/>
  <xs:element name="HistoricalActivation_MarketDocument" type="HistoricalActivation_MarketDocument"/>
  <xs:simpleType name="ID_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
cim16#String"/>
    <xs:restriction base="xs:string">
      <xs:maxLength value="35"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ESMPVersion_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String"/>
    <xs:restriction base="xs:string">
      <xs:pattern value="[1-9]\{1-3\}[0-9]{4}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MessageKind_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String"/>
    <xs:restriction base="cl:MessageTypeList"/>
  </xs:simpleType>
  <xs:simpleType name="ProcessKind_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String"/>
    <xs:restriction base="cl:ProcessTypeList"/>
  </xs:simpleType>
  <xs:simpleType name="PartyID_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String" />
    <xs:restriction base="xs:string">
      <xs:maxLength value="16"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="PartyID_String-base" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String" />
    <xs:restriction base="xs:string">
      <xs:maxLength value="18"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MarketRoleKind_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#String" />
    <xs:restriction base="cl:RoleTypeList"/>
  </xs:simpleType>
  <xs:simpleType name="ESMP_DateTime" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-
schema-cim16#DateTime" />
    <xs:restriction base="xs:dateTime">
      <xs:pattern value="(\d{4})[-\d{2}\d{2}]([\d{2}\d{2}\d{2}])rtc\{(\d)-([\d]{2})/([\d]{2})\}-([\d]{2})-([\d]{2})-(\d)
```
<xs:complexType name="AreaID_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
  <xs:simpleContent>
    <xs:extension base="AreaID_String-base">
      <xs:attribute name="codingScheme" type="cl:CodingSchemeTypeList" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:simpleType name="YMDHM_DateTime" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d{4}-\d{2}-\d{2}\s{2}\d{2}:\d{2}:\d{2}:\d{3}"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ESMP_DateTimeInterval" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTimeInterval">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="start" type="YMDHM_DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="end" type="YMDHM_DateTime" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:simpleType>

  <xs:complexType>
    <xs:sequence>
      <xs:element name="mRID" type="ID_String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="revisionNumber" type="ESMPVersion_String" minOccurs="1" maxOccurs="1"/>
      <xs:element name="messageKind_string" minOccurs="1" maxOccurs="1"/>
      <xs:element name="process.processType" minOccurs="0" maxOccurs="1"/>
      <xs:element name="sender_MarketParticipant.mRID" minOccurs="1" maxOccurs="1" type="PartyID_String"/>
      <xs:element name="marketRoleKind_string" minOccurs="1" maxOccurs="1" type="MarketRoleKind_String"/>
      <xs:element name="receiver_MarketParticipant.mRID" minOccurs="1" maxOccurs="1" type="PartyID_String"/>
      <xs:element name="createdDateTime" type="ESMP_DateTime" minOccurs="1" maxOccurs="1"/>
      <xs:element name="time_Period.timeInterval" minOccurs="1" maxOccurs="1" type="ESMP_DateTimeInterval"/>
      <xs:element name="domain.mRID" type="AreaID_String" minOccurs="0" maxOccurs="1"/>
      <xs:element name="TimeSeries" minOccurs="0" maxOccurs="1" type="TimeSeries"/>
      <xs:element name="unbounded" minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:simpleType>
<?xml version="1.0" encoding="UTF-8"?>

<xs:element name="ResourceID" type="cim16#ResourceID_String" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="Point" type="cim16#Point" minOccurs="0" maxOccurs="unbounded">
  
  <xs:complexType name="Point">
    
    <xs:sequence>
      
      <xs:element name="Position" type="cim16#Position(Integer)" minOccurs="0" maxOccurs="0"/>
      
      <xs:element name="Reason" type="cim16#Reason" minOccurs="0" maxOccurs="0"/>
      
      <xs:element name="Direction" type="cim16#Direction" minOccurs="0" maxOccurs="0"/>
      
      <xs:element name="Series" type="cim16#Series" minOccurs="0" maxOccurs="0"/>
      
    </xs:sequence>
    
    <xs:extension base="cim16#Point">
      
      <xs:attribute name="codingScheme" type="cl:CodingSchemeTypeList" use="optional"/>
      
    </xs:extension>
    
  </xs:complexType>
  
</xs:element>

<xs:element name="Position" type="cim16#Position(Integer)" minOccurs="0" maxOccurs="0"/>

<xs:element name="Reason" type="cim16#Reason" minOccurs="0" maxOccurs="0"/>

<xs:element name="Direction" type="cim16#Direction" minOccurs="0" maxOccurs="0"/>

<xs:element name="Series" type="cim16#Series" minOccurs="0" maxOccurs="0"/>

</xs:schema>
  <xs:sequence>
    <xs:element name="activation_Original_MarketDocument.mRID" type="ID_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID" />
  </xs:sequence>
</xs:schema>