EIC DOCUMENT
UML MODEL AND SCHEMA

2023-01-17
AGREED DOCUMENT
VERSION 1.1
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Maintenance notice:

This document is maintained by the ENTSO-E CIM WG. Comments or remarks are to be provided at cim@entso.eu
### Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Release</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>2021-09-15</td>
<td>First draft of the document. Updates in schema 'iec62325-451-n-eiccode_v1_1.xsd': &lt;br&gt;• maxLength of VATCode_String type was enlarged to 25 characters. Approved by MC.</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>2024-01-17</td>
<td>Updates in schema 'iec62325-451-n-eiccode_v1_2.xsd': &lt;br&gt;• Cardinality of function_Names changed from 0..* to 1..*. This is to avoid having EIC codes without any function assigned. &lt;br&gt;• Long_Names.name maximum length enlarged from 70 to 100 characters. Agreed by CIM WG.</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 EIC_MarketDocument. The schema of the EIC_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.
1.1. EIC document contextual model

1.1.1. Overview of the model

Figure 1 shows the model.

![EIC document contextual model diagram]
1.1.2. **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>ACERCode_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
<tr>
<td>AttributeInstanceComponent</td>
<td>TC57CIM::Market::MarketManagement::AttributeInstanceComponent</td>
</tr>
<tr>
<td>DateAndOrTime</td>
<td>TC57CIM::Market::MarketManagement::DateAndOrTime</td>
</tr>
<tr>
<td>Display_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
<tr>
<td>EIC_MarketDocument</td>
<td>TC57CIM::Market::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>EICCode_MarketDocument</td>
<td>TC57CIM::Market::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>EICCode_MarketParticipant</td>
<td>TC57CIM::Market::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>EICContact_MarketParticipant</td>
<td>TC57CIM::Market::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>EICParent_MarketDocument</td>
<td>TC57CIM::Market::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>EICResponsible_MarketParticipant</td>
<td>TC57CIM::Market::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>Function_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
<tr>
<td>Long_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
<tr>
<td>MarketParticipant</td>
<td>TC57CIM::Market::MarketCommon::MarketParticipant</td>
</tr>
<tr>
<td>MarketRole</td>
<td>TC57CIM::Market::MarketCommon::MarketRole</td>
</tr>
<tr>
<td>VATCode_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
</tbody>
</table>
1.2. EIC document assembly model

1.2.1. Overview of the model

Figure 2 shows the model.
1.2.2. **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>EIC_MarketDocument</td>
<td>TC57CIM::Market::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>EICCode_MarketDocument</td>
<td>TC57CIM::Market::MarketManagement::MarketDocument</td>
</tr>
<tr>
<td>Function_Name</td>
<td>TC57CIM::IEC61970::Base::Core::Name</td>
</tr>
</tbody>
</table>

1.2.3. **Detailed EIC document assembly model**

1.2.3.1. **EIC_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 EIC_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>[0..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>4</td>
<td>[0..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.</td>
</tr>
<tr>
<td>5</td>
<td>[0..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>6</td>
<td>[0..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.</td>
</tr>
<tr>
<td>7</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 shows all association ends of EIC_MarketDocument with other classes.
### Table 4 - Association ends of EIC document assembly model::EIC_MarketDocument with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>mult.</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
</table>

### 1.2.3.2. EICCode_MarketDocument

A document describing the EIC code, which identification is provided in the mRID attribute.

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

Table 5 shows all attributes of EICCode_MarketDocument.

### Table 5 - Attributes of EIC document assembly model::EICCode_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>[0..1]</td>
<td>mRID EICCode_String</td>
<td>The EIC code that is managed in the process (creation, update, deactivation, reactivation, publication).</td>
</tr>
<tr>
<td>1</td>
<td>[0..1]</td>
<td>status Action_Status</td>
<td>The action requested to be carried out, e.g. creation of the EIC code, update, deactivation, reactivation. Status of subject matter (e.g., Agreement, Work) this document represents. For status of the document itself, use 'docStatus' attribute.</td>
</tr>
<tr>
<td>2</td>
<td>[0..1]</td>
<td>docStatus Action_Status</td>
<td>The status of the EIC code document, i.e. active or inactive. This status is for publication information. The identification of the condition or position of the document with regard to its standing.</td>
</tr>
<tr>
<td>3</td>
<td>[0..1]</td>
<td>attributeInstanceComponent.attribute String</td>
<td>The identification of an EIC code either as local EIC code or international EIC code in order to keep either locally or to send to the central registry. The identification of an attribute for a given request component. --- This attribute states if the EIC code is either a local EIC code or an international EIC code. The default value is that the EIC code is a local EIC code; thus &quot;no value&quot; attribute means that the code is a local EIC code.</td>
</tr>
<tr>
<td>4</td>
<td>[1..1]</td>
<td>long_Names.name Characters100_String</td>
<td>Any free text that name the object. --- The long name or the &quot;full&quot; name of the EIC party or object being identified by the EIC code.</td>
</tr>
<tr>
<td>5</td>
<td>[1..1]</td>
<td>display_Names.name Characters16_String</td>
<td>Any free text that name the object. --- The display name or short name to be used on displays.</td>
</tr>
<tr>
<td>6</td>
<td>[1..1]</td>
<td>lastRequest_DateAndOrTime.date Date</td>
<td>The date as &quot;YYYY-MM-DD&quot;, which conforms with ISO 8601. --- Date of the request</td>
</tr>
<tr>
<td>Order</td>
<td>mult.</td>
<td>Attribute name / Attribute type</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>---------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>7</td>
<td>[0..1]</td>
<td>deactivationRequested_DateAndOrTime.date</td>
<td>The date as &quot;YYYY-MM-DD&quot;, which conforms with ISO 8601. --- Date when the deactivation will be done.</td>
</tr>
<tr>
<td>8</td>
<td>[0..1]</td>
<td>eICContact_MarketParticipant.name</td>
<td>The name is any free human readable and possibly non unique text naming the object. --- The information about the contact person for the EIC code.</td>
</tr>
<tr>
<td>9</td>
<td>[0..1]</td>
<td>eICContact_MarketParticipant.phone1</td>
<td>Phone number. --- The information about the contact person for the EIC code.</td>
</tr>
<tr>
<td>10</td>
<td>[0..1]</td>
<td>eICContact_MarketParticipant.electronicAddress</td>
<td>Electronic address. --- The information about the contact person for the EIC code.</td>
</tr>
<tr>
<td>11</td>
<td>[0..1]</td>
<td>eICCode_MarketParticipant.streetAddress</td>
<td>Street address when the EIC code is the one of a market participant, i.e. company. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT code.</td>
</tr>
<tr>
<td>12</td>
<td>[0..1]</td>
<td>eICCode_MarketParticipant.aCERCode_Names.name</td>
<td>Any free text that name the object. The other codes that may be used to identify an entity. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT code. --- The ACER code associated to the EIC code of the market participant.</td>
</tr>
<tr>
<td>13</td>
<td>[0..1]</td>
<td>eICCode_MarketParticipant.vATCode_Names.name</td>
<td>Any free text that name the object. --- Additional information when the EIC code is the one of a market participant, such as company address, ACER code, VAT code. --- The VAT code associated with the EIC code of the market participant.</td>
</tr>
<tr>
<td>14</td>
<td>[0..1]</td>
<td>eICParent_MarketDocument.mRID</td>
<td>The identification of the parent for the EIC code (hierarchical description). For a market participant, the parent is the mother company. For the areas, the parent provides information about aggregation, e.g. a control block is composed of control areas, etc. --- The EIC code of the parent (market participant, area, resource object, etc.) of the EIC code.</td>
</tr>
<tr>
<td>15</td>
<td>[0..1]</td>
<td>eICResponsible_MarketParticipant.mRID</td>
<td>The identification of a party in the energy market. --- The party responsible of the object identified by the EIC code (mRID attribute).</td>
</tr>
<tr>
<td>16</td>
<td>[0..1]</td>
<td>description</td>
<td>The description of the EIC code. The description is a free human readable text describing or naming the object. It may be non unique and may not correlate to a naming hierarchy.</td>
</tr>
</tbody>
</table>

Table 6 shows all association ends of EICCode_MarketDocument with other classes.
### Table 6 - Association ends of EIC document assembly model::EICCode_MarketDocument with other classes

<table>
<thead>
<tr>
<th>Order</th>
<th>multiplicity</th>
<th>Class name / Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>[1..*]</td>
<td>Function_Name</td>
<td>All names of this identified object. Association Based On: EIC document contextual model::Function_Name.Function_Names[1..*] EIC document contextual model::EICCode_MarketDocument.</td>
</tr>
</tbody>
</table>

### 1.2.3.3. Function_Name

The Name class provides the means to define any number of human readable names for an object. A name is **not** to be used for defining inter-object relationships. For inter-object relationships instead use the object identification 'mRID'.

Table 7 shows all attributes of Function_Name.

### Table 7 - Attributes of EIC document assembly model::Function_Name

<table>
<thead>
<tr>
<th>Order</th>
<th>multiplicity</th>
<th>Attribute name / Attribute type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>[1..1]</td>
<td>name Characters70_String</td>
<td>For the EIC code, the list of functions. Any free text that name the object.</td>
</tr>
</tbody>
</table>

### 1.2.4. Datatypes

The list of datatypes used for the EIC document assembly model is as follows:

- Action_Status compound
- ElectronicAddress compound
- StreetAddress compound
- StreetDetail compound
- TelephoneNumber compound
- TownDetail compound
- ACERCode_String datatype
- Characters10_String datatype
- Characters100_String datatype
- Characters15_String datatype
- Characters16_String datatype
- Characters2_String datatype
- Characters35/String datatype
- Characters70/String datatype
- Characters700/String datatype
- EICCode_String datatype
- ESMP_DateTime datatype
- ESMPVersion_String datatype
- ID_String datatype
- MarketRoleKind_String datatype, codelist RoleTypeList
- MessageKind_String datatype, codelist MessageTypeList
- PartyID_String datatype, codelist CodingSchemeTypeList
- Status_String datatype, codelist StatusTypeList
- VATCode_String datatype
1.2.5. EIC_MarketDocument XML schema structure

Figure 3 - EIC_MarketDocument schema structure
1.2.6. **EIC_MarketDocument XML schema**

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

```
urn:iec62325.351.tc57wg16:451:n:eicdocument:1:2
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:ecl="urn:iec625.351:tc57wg16:451"
  targetNamespace="urn:iec62325.351.tc57wg16:451:n:eicdocument:1:2"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xs:import namespace="urn:entsoe.eu:wgedi:codelists" schemaLocation="urn-entsoe-eu-wgedi-codelists.xsd"/>
  <xs:element name="EIC_MarketDocument" type="EIC_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="60"/>
    </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:maxLength value="19"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="MarketRoleKind_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
    <xs:restriction base="ecl:RoleTypeList="/>
  </xs:simpleType>
  <xs:simpleType name="MessageKind_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
    <xs:restriction base="ecl:MessageTypeList="/>
  </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:complexType name="PartyID_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
    <xs:complexContent>
      <xs:extension base="PartyID_String-base">
        <xs:attribute name="codingScheme" type="ecl:CodingSchemeTypeList" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:simpleType name="ESMP_DateTime" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateTime">
    <xs:restriction base="xs:dateTime">
    </xs:restriction>
  </xs:simpleType>
</xs:import>
```
  <xs:sequence>
    <xs:element name="mRID" type="ID_String" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
    <xs:element name="revisionNumber" type="ESMPVersion_String" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.revisionNumber"/>
    <xs:element name="sender_MarketParticipant.mRID" type="PartyID_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
    <xs:element name="sender_MarketParticipant.marketRole.type" type="MarketRoleKind_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
    <xs:element name="receiver_MarketParticipant.mRID" type="PartyID_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
    <xs:element name="receiver_MarketParticipant.marketRole.type" type="MarketRoleKind_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#MarketRole.type"/>
    <xs:element name="createdDateTime" type="ESMP_DateTime" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.createdDateTime"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="EICCode_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
  <xs:restriction base="xs:string">
    <xs:length value="16"/>
  </xs:restriction>
</xs:complexType>
<xs:restriction base="xs:string">
  <xs:maxLength value="16"/>
  <xs:pattern value="^[A-Z]-[\+\_0-9]+$"/>
</xs:restriction>
</xs:simpleType>
</cim16#Status.value>

<!DOCTYPE cim:16#StreetDetail SYSTEM "http://iec.ch/TC57/2013/CIM-schema-cim16#StreetDetail">
<xs:element name="addressGeneral2" type="Characters70_String"
   minOccurs="0" maxOccurs="1" sawsdl:modelReference=" http://iec.ch/TC57/2013/CIM-
   schema-cim16#StreetDetail.addressGeneral2"/>
</xs:sequence>
</xs:complexType>
<xs:simpleType name="Characters10_String" sawsdl:modelReference=" http://iec.ch/TC57/2013/CIM-
   schema-cim16#StreetDetail.streetDetail"
   minOccurs="0" maxOccurs="1" sawsdl:modelReference=" http://iec.ch/TC57/2013/CIM-
   schema-cim16#StreetDetail.addressGeneral3"/>
</xs:sequence>
</xs:complexType>
</xs:complexType>
<xs:simpleType name="StreetAddress" sawsdl:modelReference=" http://iec.ch/TC57/2013/CIM-
   schema-cim16#StreetAddress"
   minOccurs="0" maxOccurs="1" sawsdl:modelReference=" http://iec.ch/TC57/2013/CIM-
   schema-cim16#StreetAddress.streetDetail"/>
</xs:sequence>
</xs:complexType>
</xs:schema>
</xs:schema>
</xs:schema>
</xs:schema>
<xs:complexType name="ElectronicAddress" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#ElectronicAddress">
  <xs:sequence>
    <xs:element name="email1" type="Characters70_String" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#ElectronicAddress.email1"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Characters15_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#String">
  <xs:restriction base="xs:string">
    <xs:maxlength value="15"/>
  </xs:restriction>
</xs:complexType>

<xs:complexType name="TelephoneNumber" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TelephoneNumber">
  <xs:sequence>
    <xs:element name="ituPhone" type="Characters15_String" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#TelephoneNumber.ituPhone"/>
  </xs:sequence>
</xs:complexType>

  <xs:sequence>
    <xs:element name="mRID" type="EICCode_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
    <xs:element name="status" type="Action_Status" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.status"/>
    <xs:element name="docStatus" type="Action_Status" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Document.docStatus"/>
    <xs:element name="attributeInstanceComponent.attribute" type="xs:string" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#AttributeInstanceComponent.attribute"/>
    <xs:element name="long_Names.name" type="Characters100_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
    <xs:element name="display_Names.name" type="Characters16_String" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
    <xs:element name="lastRequest_DateAndOrTime.date" type="xs:date" minOccurs="1" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateAndOrTime.date"/>
    <xs:element name="deactivationRequested_DateAndOrTime.date" type="xs:date" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#DateAndOrTime.date"/>
    <xs:element name="eICContact_MarketParticipant.name" type="Characters70_String" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16# IdentifiedObject.name"/>
    <xs:element name="eICContact_MarketParticipant.phone1" type="TelephoneNumber" minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Organisation.phone1"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="eICContact_MarketParticipant.electronicAddress" type="ElectronicAddress"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Organisation.electronicAddress"/>
<xs:element name="eICCode_MarketParticipant.streetAddress" type="StreetAddress"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Organisation.streetAddress"/>
<xs:element name="eICCode_MarketParticipant.acERCode_Names.name" type="ACERCode_String"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
<xs:element name="eICCode_MarketParticipant.vATCode_Names.name" type="VATCode_String"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
<xs:element name="eICParent_MarketDocument.mRID" type="EICCode_String"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
<xs:element name="eICResponsible_MarketParticipant.mRID" type="EICCode_String"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.mRID"/>
<xs:element name="description" type="Characters700_String"
  minOccurs="0" maxOccurs="1" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#IdentifiedObject.description"/>
<xs:element name="Function_Names" type="Function_Name"
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<xs:sequence>
<xs:element name="name" type="Characters70_String" sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-cim16#Name.name"/>
</xs:complexType>