
PCE Implementation Guide

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1. Introduzione

L'Applicazione PCE interagisce con diversi attori utilizzando specifiche transazioni.

Questo documento descrive le transazioni che l'Applicazione supporta per scambiare dati in ingresso e in uscita con gli operatori PCE.

1.1 Scopo

Questo documento contiene il file Excel che descrive le transazioni XML di scambio dati supportate dalla Applicazione PCE.

1.2 DEFINIZIONI & ACRONIMI

2. Documenti di Riferimento

3. Formato degli Schemi

All'interno della presentazione di questa Implementation Guide vengono presentati gli XSD distinti per ogni tipo transazione, replicando la parte comune.

Utilizzando opportunamente l'istruzione "include" è possibile ottenere lo schema *Ce_BaseMessage.xsd* che richiama gli xsd specifici di ogni transazione coinvolta nell'applicazione.

Di conseguenza gli esempi indicati nei capitoli successivi mostrano l'xsd della singola transazione e un esempio completo di file XML pronto ad essere inviato alla piattaforma.

3.1 Ce_BaseMessage.xsd

```
<?xml version="1.0" encoding="UTF-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="BaseMessageTypes.xsd" />

  <element name="Message">
    <complexType>
      <sequence>
        <element name="Version" type="string" minOccurs="1" maxOccurs="1"/>
        <element name="Header" type="pd:tyHeader" minOccurs="1" maxOccurs="1"/>
        <choice>
          <element ref="pd:Transaction" minOccurs="1" maxOccurs="unbounded"/>
          <element ref="pd:PTransaction" minOccurs="1" maxOccurs="unbounded"/>
          <!-- Response -->
          <element name="Error" type="pd:tyError" minOccurs="1" maxOccurs="unbounded" />
        </choice>
      </sequence>
      <attribute name="MessageCode" type="pd:tyCeMessageCode" use="optional"/>
      <attribute name="MessageType" type="pd:tyMessageType" use="optional"/>
      <attribute name="MessageDate" type="date" use="required"/>
      <attribute name="MessageTime" type="time" use="optional"/>
      <attribute name="MessageSubject" type="pd:tyMessageSubject" use="optional"/>
      <!-- Response -->
      <attribute name="ResponseReferenceMessageCode" type="pd:tyMessageCode" use="optional"/>
      <attribute name="ResponseMessageStatus" type="pd:tyMessageStatus" use="optional" />
    </complexType>
  </element>

  <element name="Transaction">
    <complexType>
      <sequence>
        <any minOccurs="0" maxOccurs="1" processContents="skip" />
      </sequence>

      <attribute name="TransactionCode" type="pd:tyTransactionCode" use="required" />
      <attribute name="ApplicationData" type="string" use="optional" />
      <attribute name="MPN" type="pd:tyExternalReferenceNumber" use="optional" />

      <!-- Response -->
      <attribute name="ResponseTransactionStatus" type="pd:tyTransactionStatus" use="optional" />
      <attribute name="ResponseProcessingTime" type="dateTime" use="optional" />
      <attribute name="ResponseReferenceTransactionCode" type="pd:tyTransactionCode" use="optional" />
    </complexType>
  </element>

  <element name="PTransaction">
    <complexType>
      <sequence>
        <any minOccurs="0" maxOccurs="1" processContents="skip" />
      </sequence>

      <attribute name="TransactionCode" type="pd:tyFreeTransactionCode" use="optional" />
      <attribute name="ApplicationData" type="string" use="optional" />
      <attribute name="MPN" type="pd:tyExternalReferenceNumber" use="optional" />

      <!-- Response -->
      <attribute name="ResponseTransactionStatus" type="pd:tyTransactionStatus" use="optional" />
      <attribute name="ResponseProcessingTime" type="dateTime" use="optional" />
      <attribute name="ResponseReferenceTransactionCode" type="pd:tyTransactionCode" use="optional" />
    </complexType>
  </element>
</schema>
```

3.2 BaseMessageType.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema id="MessageTypes"
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <complexType name="tyError">
    <attribute name="Code" type="string" use="required" />
    <attribute name="Description" type="string" use="required" />
  </complexType>

  <complexType name="tyHeader">
    <sequence>
      <element name="Sender" type="pd:tyAddress"/>
      <element name="Receiver" type="pd:tyAddress"/>
    </sequence>
  </complexType>

  <complexType name="tyAddress">
    <sequence>
      <element name="OperatorMsgCode" type="pd:tyOperatorMsgCode"/>
      <element name="CompanyName" type="pd:tyCompanyName" minOccurs="0"/>
      <element name="UserMsgCode" type="pd:tyUserMsgCode" minOccurs="0"/>
    </sequence>
  </complexType>

  <simpleType name="tyOperatorMsgCode">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="16" />
    </restriction>
  </simpleType>

  <simpleType name="tyUserMsgCode">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="16" />
    </restriction>
  </simpleType>

  <simpleType name="tyMessageCode">
    <restriction base="string">
      <minLength value="32" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyCeMessageCode">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyTransactionCode">
    <restriction base="string">
      <minLength value="32" />
      <maxLength value="32" />
    </restriction>
  </simpleType>
```

```
</restriction>
</simpleType>

<simpleType name="tyFreeTransactionCode">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="32" />
  </restriction>
</simpleType>

<simpleType name="tyTransactionStatus">
  <restriction base="string">
    <enumeration value="Accepted" />
    <enumeration value="Rejected" />
  </restriction>
</simpleType>

<simpleType name="tyMessageType">
  <restriction base="string">
    <enumeration value="Request" />
    <enumeration value="Response" />
    <enumeration value="IdxRegResponse" />
    <enumeration value="Notify" />
    <enumeration value="NotifyChiusuraBook" />
    <enumeration value="NotifyPredSession" />
  </restriction>
</simpleType>

<simpleType name="tyMessageStatus">
  <restriction base="string">
    <enumeration value="Accepted" />
    <enumeration value="Rejected" />
    <enumeration value="PartiallyAccepted" />
  </restriction>
</simpleType>

<simpleType name="tyCompanyName">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="512"/>
  </restriction>
</simpleType>

<simpleType name="tyExternalReferenceNumber">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="32" />
  </restriction>
</simpleType>

</schema>
```

3.3 RegistrationTypes.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema id="MessageTypes"
xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:XML-PCE"
xmlns:pd="urn:XML-PCE"
elementFormDefault="qualified">

<simpleType name="tyRagioneSociale">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="512" />
  </restriction>
</simpleType>

<simpleType name="tyPartitalVA">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="50" />
  </restriction>
</simpleType>

<simpleType name="tyCodiceFiscale">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="50" />
  </restriction>
</simpleType>

<simpleType name="tyIndirizzo">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyCAP">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="50" />
  </restriction>
</simpleType>

<simpleType name="tyCitta">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="120" />
  </restriction>
</simpleType>

<simpleType name="tyProvincia">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="2" />
  </restriction>
</simpleType>

<simpleType name="tyNazione">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyEmail">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="60" />
  </restriction>
</simpleType>
```

```
<simpleType name="tyTelefono">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="60" />
  </restriction>
</simpleType>

<simpleType name="tyFax">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="60" />
  </restriction>
</simpleType>

<simpleType name="tyTitolo">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="50" />
  </restriction>
</simpleType>

<simpleType name="tyCognome">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="60" />
  </restriction>
</simpleType>

<simpleType name="tyNome">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="60" />
  </restriction>
</simpleType>

<simpleType name="tyUserName">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="128" />
  </restriction>
</simpleType>

<simpleType name="tyPassword">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="128" />
  </restriction>
</simpleType>

<simpleType name="tyIssuer">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="16" />
  </restriction>
</simpleType>

<simpleType name="tySerialNumber">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="16" />
  </restriction>
</simpleType>

<simpleType name="tyReferenteAmministrativo">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tySedeAmministrativa">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyResponsabileAggiornamento">
```

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```
<restriction base="string">  
  <minLength value="1" />  
  <maxLength value="255" />  
</restriction>  
</simpleType>
```

```
<simpleType name="tyLingua">  
  <restriction base="string">  
    <minLength value="5" />  
    <maxLength value="5" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCIN">  
  <restriction base="string">  
    <minLength value="1" />  
    <maxLength value="1" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyABI">  
  <restriction base="string">  
    <minLength value="5" />  
    <maxLength value="5" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCAB">  
  <restriction base="string">  
    <minLength value="5" />  
    <maxLength value="5" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCC">  
  <restriction base="string">  
    <minLength value="12" />  
    <maxLength value="12" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyIBAN">  
  <restriction base="string">  
    <minLength value="34" />  
    <maxLength value="34" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyAliquotIVA">  
  <restriction base="int">  
    <minInclusive value="0" />  
    <maxInclusive value="100" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCodiceRuolo">  
  <restriction base="string">  
    <minLength value="1" />  
    <maxLength value="16" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCodiceUtente">  
  <restriction base="string">  
    <minLength value="1" />  
    <maxLength value="16" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyCodicePuntoDiScambioRilevante">  
  <restriction base="string">  
    <minLength value="1" />  
    <maxLength value="16" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyDescrizionePuntoDiScambioRilevante">  
  <restriction base="string">  
    <minLength value="1" />
```

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```
<maxLength value="256" />
</restriction>
</simpleType>

<simpleType name="tyCoefficienteDiPerdita">
  <restriction base="float">
    <minInclusive value="0.0" />
    <maxInclusive value="1.0" />
  </restriction>
</simpleType>

<simpleType name="tyCodiceZona">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="16" />
  </restriction>
</simpleType>

<simpleType name="tyTipoZona">
  <restriction base="string">
    <enumeration value="PPL" />
    <enumeration value="PHYS" />
    <enumeration value="VIRT" />
  </restriction>
</simpleType>

<simpleType name="tyDescrizioneZona">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyCodiceUnita">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="16" />
    <pattern value="[^\s]+.[^\s]+$" />
  </restriction>
</simpleType>

<simpleType name="tyTipoUnita">
  <restriction base="string">
    <enumeration value="C" />
    <enumeration value="M" />
    <enumeration value="P" />
  </restriction>
</simpleType>

<simpleType name="tySottoTipoUnita">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="100" />
  </restriction>
</simpleType>

<simpleType name="tyDescrizioneUnita">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyOrdineDiMerito">
  <restriction base="integer">
    <minInclusive value="0" />
  </restriction>
</simpleType>

<simpleType name="tyUnbalancedParticipantNumber">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="60" />
  </restriction>
</simpleType>
```

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```
<simpleType name="tyInjectionOrWithdrawalPointNumber">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="16" />
  </restriction>
</simpleType>

<simpleType name="tyMustRun">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="256" />
  </restriction>
</simpleType>

<simpleType name="tyQuotaAlfa">
  <restriction base="decimal">
    <minInclusive value="0.0" />
    <maxInclusive value="1.0" />
  </restriction>
</simpleType>

<simpleType name="tyDescrizioneIVA">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="64" />
  </restriction>
</simpleType>

<simpleType name="tyCodiceIVA">
  <restriction base="string">
    <minLength value="2" />
    <maxLength value="2" />
  </restriction>
</simpleType>

<simpleType name="tySegno">
  <restriction base="string">
    <enumeration value="+"/>
    <enumeration value="-"/>
  </restriction>
</simpleType>

<simpleType name="tyPercentualeIVA">
  <restriction base="float">
    <minInclusive value="0.0" />
    <maxInclusive value="0.40" />
  </restriction>
</simpleType>

<simpleType name="languageType">
  <restriction base="string">
    <enumeration value="it-IT"/>
    <enumeration value="en-US"/>
  </restriction>
</simpleType>

<simpleType name="Actions">
  <restriction base="string">
    <enumeration value="Update" />
    <enumeration value="Insert" />
    <enumeration value="Delete" />
  </restriction>
</simpleType>

<simpleType name="lengthTwoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="2"/>
  </restriction>
</simpleType>

<simpleType name="lengthThreeType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="3"/>
  </restriction>
</simpleType>

<simpleType name="lengthFourType">
```

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```
<restriction base="string">  
  <minLength value="1"/>  
  <maxLength value="4"/>  
</restriction>  
</simpleType>
```

```
<simpleType name="lengthFiveType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="5"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthEightType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="8"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthTenType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="10"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthFifteenType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="15"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthSixteenType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="16"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthTwentyType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="20"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthTwentyFourType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="24"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthTwentyFiveType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="25"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthThirtyType">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="30"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="length32Type">  
  <restriction base="string">  
    <minLength value="1"/>  
    <maxLength value="32"/>  
  </restriction>  
</simpleType>
```

```
<simpleType name="lengthThirtyFiveType">  
  <restriction base="string">  
    <minLength value="1"/>
```

```
<maxLength value="35"/>
</restriction>
</simpleType>

<simpleType name="length36Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="36"/>
  </restriction>
</simpleType>

<simpleType name="lengthFortyType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="40"/>
  </restriction>
</simpleType>

<simpleType name="lengthFiftyType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="50"/>
  </restriction>
</simpleType>

<simpleType name="lengthSixtyType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="60"/>
  </restriction>
</simpleType>

<simpleType name="length2048Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="2048"/>
  </restriction>
</simpleType>

<simpleType name="lengthSixtyFourType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="64"/>
  </restriction>
</simpleType>

<simpleType name="lengthEightyType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="80"/>
  </restriction>
</simpleType>

<simpleType name="length128Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="128"/>
  </restriction>
</simpleType>

<simpleType name="length512Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="512"/>
  </restriction>
</simpleType>

<simpleType name="length132Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="132"/>
  </restriction>
</simpleType>

<simpleType name="length250Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="250"/>
  </restriction>
</simpleType>
```

</simpleType>

```
<simpleType name="length256Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="256"/>
  </restriction>
</simpleType>
```

```
<simpleType name="length256Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="256"/>
  </restriction>
</simpleType>
```

```
<simpleType name="length50Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="50"/>
  </restriction>
</simpleType>
```

```
<simpleType name="length10Type">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="10"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthFiveHundredType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="500"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthTwoType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="2"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthThreeType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="3"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthFourType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="4"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthFiveType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="5"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthEightType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="8"/>
  </restriction>
</simpleType>
```

```
<simpleType name="lengthTenType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="10"/>
  </restriction>
</simpleType>
```

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```
<simpleType name="lengthFifteenType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="15"/>
  </restriction>
</simpleType>

<simpleType name="lengthSixteenType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="16"/>
  </restriction>
</simpleType>

<simpleType name="lengthTwentyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="20"/>
  </restriction>
</simpleType>

<simpleType name="lengthTwentyFourType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="24"/>
  </restriction>
</simpleType>

<simpleType name="lengthTwentyFiveType_base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="25"/>
  </restriction>
</simpleType>

<simpleType name="lengthThirtyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="30"/>
  </restriction>
</simpleType>

<simpleType name="length32Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="32"/>
  </restriction>
</simpleType>

<simpleType name="lengthThirtyFiveType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="35"/>
  </restriction>
</simpleType>

<simpleType name="lengthFortyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="40"/>
  </restriction>
</simpleType>

<simpleType name="lengthFiftyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="50"/>
  </restriction>
</simpleType>

<simpleType name="lengthSixtyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="60"/>
  </restriction>
</simpleType>

<simpleType name="lengthSixtyFourType_Base0">
  <restriction base="string">
```

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```
<minLength value="0"/>
<maxLength value="64"/>
</restriction>
</simpleType>

<simpleType name="lengthEightyType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="80"/>
  </restriction>
</simpleType>

<simpleType name="length128Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="128"/>
  </restriction>
</simpleType>

<simpleType name="length132Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="132"/>
  </restriction>
</simpleType>

<simpleType name="length250Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="250"/>
  </restriction>
</simpleType>

<simpleType name="length50Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="50"/>
  </restriction>
</simpleType>

<simpleType name="length10Type_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="10"/>
  </restriction>
</simpleType>

<simpleType name="lengthFiveHundredType_Base0">
  <restriction base="string">
    <minLength value="0"/>
    <maxLength value="500"/>
  </restriction>
</simpleType>

<simpleType name="UserManagementActions">
  <restriction base="string">
    <enumeration value="Update" />
    <enumeration value="Insert" />
    <enumeration value="Delete" />
    <enumeration value="ChangePersonalSetting" />
  </restriction>
</simpleType>

<simpleType name="UserStatus">
  <restriction base="string">
    <enumeration value="Eligible" />
    <enumeration value="Suspended" />
  </restriction>
</simpleType>

<simpleType name="OperatorStatus">
  <restriction base="string">
    <enumeration value="Enabled" />
    <enumeration value="Disabled" />
    <enumeration value="Inactive" />
  </restriction>
</simpleType>
</schema>
```

3.4 Ce_Types.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema id="MessageTypes"
xmlns="http://www.w3.org/2001/XMLSchema"
targetNamespace="urn:XML-PCE"
xmlns:pd="urn:XML-PCE"
elementFormDefault="qualified">

  <simpleType name="tyTransCommMatchingCode">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyTransCommCustomCode">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyCodiceOperatore">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="16" />
      <pattern value="^[^s]+.[^s]+$"/>
    </restriction>
  </simpleType>

  <simpleType name="tyCodiceContoEnergia">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyCodiceProfilo">
    <restriction base="string">
    </restriction>
  </simpleType>

  <simpleType name="tyEmpty">
    <restriction base="string">
    </restriction>
  </simpleType>

  <simpleType name="tyIdOfferta">
    <restriction base="string">
      <minLength value="1" />
      <maxLength value="32" />
    </restriction>
  </simpleType>

  <simpleType name="tyQtyMWh">
    <restriction base="string">
      <pattern value="^[+]?[d{1,3}((\d{3})*)|^[-]?[d{1,9}]^[-]?[d{1,3}((\d{3})*)(\d{1,3})|^[-]?[d{1,9}](\d{1,3})$"/>
    </restriction>
  </simpleType>

  <simpleType name="tyQtyMWh_1decimal">
    <restriction base="string">
      <pattern value="^[+]?[d{0,3}(\d{3})*(\d{1})?$/>
    </restriction>
  </simpleType>

  <simpleType name="tyQtyMWhPos">
    <restriction base="string">
```

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```
<pattern value="^-?\d{1,3}((\d{3})*)|^-\d{1,3}((\d{3})*)(\d{1,3})|^-\d{1,9}|^-\d{1,9}(\d{1,3})$"/>
</restriction>
</simpleType>

<simpleType name="tyQtyMWhNeg">
  <restriction base="string">
    <pattern value="^-?\d{1,3}((\d{3})*)|^-\d{1,3}((\d{3})*)(\d{1,3})|^-\d{1,9}|^-\d{1,9}(\d{1,3})$"/>
  </restriction>
</simpleType>

<simpleType name="tyPriceMWh">
  <restriction base="string">
    <pattern value="^-?\d{1,3}((\d{3})*)|\d{1,3}((\d{3})*)(\d{1,2})|^-\d{1,9}|^-\d{1,9}(\d{1,2})$"/>
  </restriction>
</simpleType>

<simpleType name="tySignedPriceMWh">
  <restriction base="string">
    <pattern value="^-?\d{1,3}((\d{3})*)|^-\d{1,3}((\d{3})*)(\d{1,2})|^-\d{1,9}|^-\d{1,9}(\d{1,2})$"/>
  </restriction>
</simpleType>

<simpleType name="tyPGMPriceMWh">
  <restriction base="string">
    <pattern value="^-?\d{1,3}((\d{3})*)|\d{1,3}((\d{3})*)(\d{1,6})|^-\d{1,9}|^-\d{1,9}(\d{1,6})$"/>
  </restriction>
</simpleType>

<simpleType name="tyControValore">
  <restriction base="string">
    <pattern value="^-?[+\d{1,3}((\d{3})*)|^-[+\d{1,3}((\d{3})*)(\d{1,2})|^-[+\d{1,9}|^-[+\d{1,9}(\d{1,2})$"/>
  </restriction>
</simpleType>

<simpleType name="tyPUN">
  <restriction base="string">
    <pattern value="^-?\d{1,3}((\d{3})*)|\d{1,3}((\d{3})*)(\d{1,6})|^-\d{1,9}|^-\d{1,9}(\d{1,6})$"/>
  </restriction>
</simpleType>

<simpleType name="tyPrezzoIDEX">
  <restriction base="string">
    <pattern value="^\d+\d{2}$"/>
  </restriction>
</simpleType>

<simpleType name="tyPeriodoIDEX">
  <restriction base="string">
    <pattern value="^\d{2}-\d{4}$"/>
  </restriction>
</simpleType>

<simpleType name="tyProfiloIDEX">
  <restriction base="string">
    <enumeration value="BL"/>
    <enumeration value="PL"/>
  </restriction>
</simpleType>

<simpleType name="tyUnitOfMeasure">
  <restriction base="string">
    <enumeration value="MWh"/>
  </restriction>
</simpleType>

<simpleType name="tyHourIntervalType">
  <restriction base="integer">
    <minInclusive value="1"/>
    <maxInclusive value="25"/>
  </restriction>
</simpleType>

<simpleType name="tyOTCType">
  <restriction base="string">
    <enumeration value="Proponi" />
    <enumeration value="Cattura" />
  </restriction>
</simpleType>
```

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```
<simpleType name="tyTransCommStatus">
  <restriction base="string">
    <enumeration value="Sottomessa" />
    <enumeration value="Invalida" />
    <enumeration value="Accettata" />
    <enumeration value="Abbinata" />
    <enumeration value="Rifiutata" />
    <enumeration value="Ritirata" />
    <enumeration value="Scaduta" />
    <enumeration value="Sostituita" />
    <enumeration value="SottomessaMTE" />
    <enumeration value="AbbinataMTE" />
    <enumeration value="RitirataMTE" />
    <enumeration value="Hidden" />
    <enumeration value="UnHidden" />
    <enumeration value="SottomessaIDEX" />
    <enumeration value="AbbinataIDEX" />
    <enumeration value="RitirataIDEX" />
    <enumeration value="InvalidaIDEX" />
  </restriction>
</simpleType>

<simpleType name="tySessioneStatus">
  <restriction base="string">
    <enumeration value="NUOVA" />
    <enumeration value="PRONTA" />
    <enumeration value="APERTA" />
    <enumeration value="SOSPESA" />
    <enumeration value="CHIUSA" />
    <enumeration value="TERMINATA" />
    <enumeration value="ELIMINATA" />
  </restriction>
</simpleType>

<simpleType name="tyCreditDebit">
  <restriction base="string">
    <enumeration value="CreditAdjustment" />
    <enumeration value="DebitAdjustment" />
  </restriction>
</simpleType>

<simpleType name="tyPPGOperationType">
  <restriction base="string">
    <enumeration value="AddTemporary" />
    <enumeration value="RemoveAndAddTemporary" />
    <enumeration value="Assign" />
  </restriction>
</simpleType>

<simpleType name="tyReasonType">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="32" />
  </restriction>
</simpleType>

<simpleType name="tyReasonTextType">
  <restriction base="string">
    <minLength value="0" />
    <maxLength value="1024" />
  </restriction>
</simpleType>

<simpleType name="yesNoType">
  <restriction base="string">
    <enumeration value="Yes"/>
    <enumeration value="No"/>
  </restriction>
</simpleType>

<complexType name="tyOTCItem">
  <attribute name="CodiceOTC" type="pd:tyTransCommMatchingCode" use="optional" />
  <attribute name="OperatoreControparte" type="pd:tyCodiceOperatore" use="optional" />
</complexType>
```

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```
<complexType name="tyTCItem">
  <attribute name="ContoEnergia" type="pd:tyCodiceContoEnergia" use="required"/>
  <attribute name="OpRifCE" type="pd:tyCodiceOperatore" use="required"/>
  <attribute name="Qty" type="pd:tyQtyMWh_1decimal" use="required"/>
</complexType>

<complexType name="tyItemPC">
  <sequence>
    <element name="TCItem" type="pd:tyTCItem" minOccurs="1" maxOccurs="unbounded"/>
  </sequence>
  <attribute name="Data" type="date" use="required"/>
  <attribute name="Ora" type="int" use="required"/>
</complexType>

<complexType name="tyTCAggregatoGiornaliero">
  <attribute name="Data" type="date" use="required"/>
  <attribute name="Ora" type="int" use="required"/>
  <attribute name="Qty" type="pd:tyQtyMWh" use="required"/>
</complexType>

<simpleType name="tyCodiceTipoConto">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="16" />
  </restriction>
</simpleType>

<simpleType name="tyMPN">
  <restriction base="string">
    <minLength value="1" />
    <maxLength value="32" />
  </restriction>
</simpleType>

<simpleType name="unitScheduleType">
  <restriction base="string">
    <maxLength value="64"/>
  </restriction>
</simpleType>

<simpleType name="marketType">
  <restriction base="string">
    <enumeration value="MGP"/>
    <enumeration value="MA1"/>
    <enumeration value="MB"/>
    <enumeration value="MSD"/>
  </restriction>
</simpleType>

<simpleType name="tyPurpose">
  <restriction base="string">
    <enumeration value="A"/>
    <enumeration value="V"/>
  </restriction>
</simpleType>

<simpleType name="tyTipoOperazione">
  <restriction base="string">
    <enumeration value="AddNew"/>
    <enumeration value="Modify"/>
    <enumeration value="Delete"/>
  </restriction>
</simpleType>

<simpleType name="tyTipoEsecuzione">
  <restriction base="string">
    <enumeration value="ExecCanc"/>
    <enumeration value="AllCanc"/>
    <enumeration value="TillExec"/>
  </restriction>
</simpleType>

<simpleType name="PaymentManagementActions">
  <restriction base="string">
    <enumeration value="Insert" />
    <enumeration value="Revoke" />
  </restriction>
</simpleType>
```

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```
<simpleType name="DepositActions">
  <restriction base="string">
    <enumeration value="Submit" />
    <enumeration value="Modify"/>
    <enumeration value="Close" />
  </restriction>
</simpleType>

<simpleType name="DepositTypes">
  <restriction base="string">
    <enumeration value="Adjustment" />
    <enumeration value="Guarantee" />
    <enumeration value="Deposit" />
  </restriction>
</simpleType>

<simpleType name="CommandActions">
  <restriction base="string">
    <enumeration value="VerifyPrograms" />
    <enumeration value="SendOffersToIpeX" />
    <enumeration value="ReadIpeXResult" />
    <enumeration value="GenerateReportProgramsPreSend" />
    <enumeration value="GenerateReportProgramsPostRead" />
    <enumeration value="GenerateReportBus" />
    <enumeration value="CloseMarket" />
    <enumeration value="GenerateReportBuySell" />
    <enumeration value="GenerateTernaWarrantyEsp" />
    <enumeration value="GenerateReportUnbalance" />
    <enumeration value="AlignOperator" />
    <enumeration value="AlignNetting" />
  </restriction>
</simpleType>

<simpleType name="tyAutomaticStep">
  <restriction base="string">
    <enumeration value="CommercialTransactions" />
    <enumeration value="PhysicalPrograms" />
  </restriction>
</simpleType>

<simpleType name="tyResolutionType">
  <restriction base="string">
    <enumeration value="PT60" />
  </restriction>
</simpleType>

<simpleType name="tyOfferType">
  <restriction base="string">
    <enumeration value="Standard" />
    <enumeration value="Block" />
  </restriction>
</simpleType>

<simpleType name="tyPeriodIntervalType">
  <restriction base="integer">
    <minInclusive value="1"/>
    <maxInclusive value="100"/>
  </restriction>
</simpleType>

<simpleType name="tyMinimumAcceptanceRatio">
  <restriction base="string">
    <pattern value="^(0(\,[0-9]{1,6})?|1(\,0{1,6})?)$"/>
  </restriction>
</simpleType>

<simpleType name="qtyType">
  <restriction base="decimal">
    <pattern value="\d+(\.\d+)?"/>
  </restriction>
</simpleType>
</schema>
```

4. Transazioni XML Sottomesse dagli Operatori PCE

4.1 Transazioni Commerciali (Proposta)

Profilo standard:

```
<?xml version="1.0" encoding="utf-8"?>
<Message
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  MessageDate="2007-01-31"
  xmlns="urn:XML-PCE"
  MessageType="Request">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>OEXXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Receiver>
  </Header>
  <PTransaction MPN="prova1">
    <TrComm>
      <TransazioneCommerciale CodiceAbbinamento="abbi1prop" CodiceMnemonico="memoprop1" OperatoreProponente="OEXXXXXX"
      OperatoreControparte="OEYYYYYY" DataScadenzaRichiesta="2007-02-15">
        <ProfiloStandard Profilo="BSLD" DataInizio="2007-02-17" DataFine="2007-02-19">
          <TCItem ContoEnergia="CE-IMM-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="-2,0" />
        </ProfiloStandard>
      </TransazioneCommerciale>
    </TrComm>
  </PTransaction>
</Message>
```

Profilo custom:

```
<?xml version="1.0" encoding="utf-8"?>
<Message
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  MessageDate="2006-12-20"
  xmlns="urn:XML-PCE"
  MessageCode="7f5bd6368d3f4b6a9cd8426bdc19e6e">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>OEXXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Receiver>
  </Header>
  <PTransaction>
    <TrComm>
      <TransazioneCommerciale
        OperatoreProponente="OEXXXXXX"
        CodiceAbbinamento="c1"
        CodiceMnemonico="c1"
        DataScadenzaRichiesta="2007-03-10"
        OperatoreControparte="OEYYYYYY">
        <ProfiloCustom>
          <ItemPC Data="2007-03-15" Ora="7">
            <TCItem ContoEnergia="CE-IMM-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="-11,7" />
          </ItemPC>
          <ItemPC Data="2007-03-15" Ora="8">
            <TCItem ContoEnergia="CE-IMM-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="-18,9" />
          </ItemPC>
        </ProfiloCustom>
      </TransazioneCommerciale>
    </TrComm>
  </PTransaction>
</Message>
```

4.1.1 Ce_TrComm.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="TrComm" >
    <complexType>
      <sequence>
        <element name="TransazioneCommerciale" type="pd:tyTransComm" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyTransComm">
    <sequence>
      <choice>
        <element name="ProfiloStandard">
          <complexType>
            <sequence>
              <element name="TCItem" type="pd:tyTCItem" minOccurs="1" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="Profilo" type="pd:tyCodiceProfilo" use="required"/>
            <attribute name="DataInizio" type="date" use="required"/>
            <attribute name="DataFine" type="date" use="required"/>
          </complexType>
        </element>
        <element name="ProfiloCustom">
          <complexType>
            <sequence>
              <element name="ItemPC" type="pd:tyItemPC" minOccurs="1" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ApplicationData" type="string" use="optional"/>
          </complexType>
        </element>
      </choice>
    </sequence>
    <attribute name="IdTransazione" type="int" use="optional"/>
    <attribute name="CodiceAbbinamento" type="pd:tyTransCommMatchingCode" use="required"/>
    <attribute name="CodiceMnemonico" type="pd:tyTransCommCustomCode" use="optional"/>
    <attribute name="OperatoreProponente" type="pd:tyCodiceOperatore" use="required"/>
    <attribute name="OperatoreControparte" type="pd:tyCodiceOperatore" use="required"/>
    <attribute name="DataScadenzaRichiesta" type="date" use="optional"/>
    <attribute name="IdSostituito" type="int" use="optional"/>
  </complexType>
</schema>
```

4.2 Aggiornamento Transazione Commerciale

Profilo standard:

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="017ada11939a49a6a83cc175628bc7ee" MessageDate="2007-02-09" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>OEYYYYYY</OperatorMsgCode>
      <UserMsgCode>xman</UserMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
      <UserMsgCode>None</UserMsgCode>
    </Receiver>
  </Header>
  <PTransaction MPN="prova1">
    <TrCommUpdate>
      <TransazioneCommerciale_UpdateStatus IdTransazione="592" Stato="Accettata" Operatore="OEYYYYYY" Utente="xman"
CodiceAbbinamento="propsenzaabbiinconf">
        <ProfiloStandard Profilo="BSLD" DataInizio="2007-02-24" DataFine="2007-02-25">
          <TCItem ContoEnergia="CE-PRE-OEYYYYYY" OpRifCE="OEYYYYYY" Qty="7,0" />
        </ProfiloStandard>
      </TransazioneCommerciale_UpdateStatus>
    </TrCommUpdate>
  </PTransaction>
</Message>
```

Profilo custom:

```
<?xml version="1.0" ?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="fc2969ba3b174ad5b66e89f8921dc4b3" MessageDate="2006-11-23" xmlns="urn:XML-PCE">
<Version>1.0.1.0</Version>
<Header>
  <Sender>
    <OperatorMsgCode>OEXXXXXX</OperatorMsgCode>
  </Sender>
  <Receiver>
    <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
  </Receiver>
</Header>
<PTransaction>
  <TrCommUpdate>
    <TransazioneCommerciale_UpdateStatus
      IdTransazione="580"
      Stato="Accettata"
      Operatore="OEYYYYYY"
      CodiceAbbinamento="c1"
      CodiceMnemonic="c1">
      <ProfiloCustom>
        <ItemPC Data="2007-03-15" Ora="7">
          <TCItem ContoEnergia="CE-PRE-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="11,7" />
        </ItemPC>
        <ItemPC Data="2007-03-15" Ora="8">
          <TCItem ContoEnergia="CE-PRE-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="18,9" />
        </ItemPC>
      </ProfiloCustom>
    </TransazioneCommerciale_UpdateStatus>
  </TrCommUpdate>
</PTransaction>
</Message>
```


4.2.1 Ce_TrCommUpdSt.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="TrCommUpdate" >
    <complexType>
      <sequence>
        <element name="TransazioneCommerciale_UpdateStatus" type="pd:tyTransCommUpdateStatus" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyTransCommUpdateStatus">
    <sequence minOccurs="0">
      <choice>
        <element name="ProfiloStandard">
          <complexType>
            <sequence>
              <element name="TCItem" type="pd:tyTCItem" minOccurs="1" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="Profilo" type="pd:tyCodiceProfilo" use="required"/>
            <attribute name="DataInizio" type="date" use="required"/>
            <attribute name="DataFine" type="date" use="required"/>
          </complexType>
        </element>
        <element name="ProfiloCustom">
          <complexType>
            <sequence>
              <element name="ItemPC" type="pd:tyItemPC" minOccurs="1" maxOccurs="unbounded"/>
            </sequence>
            <attribute name="ApplicationData" type="string" use="optional"/>
          </complexType>
        </element>
      </choice>
    </sequence>
    <attribute name="IdTransazione" type="int" use="required"/>
    <attribute name="Stato" type="pd:tyTransCommStatus" use="required"/>
    <attribute name="Operatore" type="pd:tyCodiceOperatore" use="required"/>
    <attribute name="Utente" type="pd:tyCodiceUtente" use="optional" />
    <attribute name="CodiceAbbinamento" type="pd:tyTransCommMatchingCode" use="optional"/>
    <attribute name="CodiceMnemonico" type="pd:tyTransCommCustomCode" use="optional"/>
  </complexType>
</schema>
```

4.3 Offerta

Vecchia versione, utilizzata solo per retrocompatibilità:

```
<?xml version="1.0" encoding="utf-8"?>
<Message
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  MessageDate="2005-08-23"
  xmlns="urn:XML-PCE"
  MessageType="Request"
  >
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>OEXXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Receiver>
  </Header>
  <PTransaction MPN="PROG080207-00">
    <BidSubmittal>
      <QtyMWh Date="2007-02-16" Hour="1" CET="CE-PRE-OEXXXXXX" URN="UCV_ELE_EXP" UOM="MWh" PRI="10">-3,0</QtyMWh>
    </BidSubmittal>
  </PTransaction>
</Message>
```

Nuova versione TIDE

```
<?xml version="1.0" encoding="utf-8"?>
<Message xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" MessageDate="2025-03-04"
  xmlns="urn:XML-PCE" MessageCode=" GME11" MessageType="Request">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <PTransaction MPN="GME1">
    <BidSubmittal_V2>
      <Offers RT="PT60" Date="2025-03-08" CET="CE-PRE-IDGME" URN="UC_GME_SUD" PRI="0,0" TY="Block" RI="Yes">
        <Offer Period="1" Qty="-0,6" />
        <Offer Period="2" Qty="-0,6" />
        <Offer Period="3" Qty="-0,6" />
      </Offers>
    </BidSubmittal_V2>
  </PTransaction>
</Message>
```

4.3.1 CE_BidSubmittal.xsd

Vecchia versione, utilizzata solo per retrocompatibilità

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <complexType name="tyBidSubmittalCommon">
    <simpleContent>
      <extension base = "pd:tyQtyMWh">
        <attribute name = "Date" type = "date" use="required"/>
        <attribute name = "Hour" type = "pd:tyHourIntervalType" use="required"/>
        <attribute name = "CET" type = "pd:tyCodiceContoEnergia" use="required"/>
        <attribute name = "URN" type = "pd:tyCodiceUnita" use="required"/>
        <attribute name = "UOM" type="pd:tyUnitOfMeasure" use="optional"/>
        <attribute name = "PRI" type="pd:tyPriceMWh" use="required"/>
        <attribute name = "RI" type="pd:yesNoType" use="required"/>
      </extension>
    </simpleContent>
  </complexType>
</schema>
```

4.3.2 CE_BidSubmittal_V2.xsd

Nuova versione TIDE

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="BidSubmittal_V2">
    <complexType>
      <sequence>
        <element name="Offers" minOccurs="1" maxOccurs="1" >
          <complexType>
            <sequence maxOccurs="100">
              <element name="Offer">
                <complexType>
                  <attribute name="Period" type="pd:tyPeriodIntervalType" use="required"/>
                  <attribute name="Qty" type="pd:tyQtyMWh_1decimal" use="required"/>
                </complexType>
              </element>
            </sequence>
            <attribute name = "TY" type = "pd:tyOfferType" use="required"/>
            <attribute name = "RT" type = "pd:tyResolutionType" use="required"/>
            <attribute name = "Date" type = "date" use="required"/>
            <attribute name = "CET" type = "pd:tyCodiceContoEnergia" use="required"/>
            <attribute name = "URN" type = "pd:tyCodiceUnita" use="required"/>
            <attribute name = "UOM" type="pd:tyUnitOfMeasure" use="optional"/>
            <attribute name = "PRI" type="pd:tySignedPriceMWh" use="required"/>
            <attribute name = "RI" type="pd:yesNoType" use="required"/>
            <attribute name = "MAR" type="pd:tyMinimumAcceptanceRatio" use="optional"/>
          </complexType>
        </element>
      </sequence>
    </complexType>
  </element>
</schema>
```

5. Transazioni XML messe a disposizione degli operatori PCE

5.1 Functional Acknowledgement

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="c7f30744a29e43f58fe853326a4d9540" MessageDate="2007-02-08" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
      <UserMsgCode>StackOutService</UserMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEXXXXXX</OperatorMsgCode>
      <UserMsgCode>None</UserMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="488d4562f1454969a3bafda4e0785f3f" MPN="PROG080207-00">
    <CeFA>
      <FunctionalAcknowledgement Status="Accepted" OriginalReferenceNumber="200702081858510000000004" />
    </CeFA>
  </Transaction>
</Message>
```

5.1.1 Ce_FunctionalAcknowledgement.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="BaseMessageTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="CeFA" >
    <complexType>
      <sequence>
        <element name="FunctionalAcknowledgement" type="pd:tyFunctionalAcknowledgement" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyFunctionalAcknowledgement">
    <sequence>
      <element ref="pd:RejectInformation" minOccurs="0" maxOccurs="unbounded"/>
    </sequence>
    <attribute name="TransactionType" type="pd:tyTransactionType" use="optional"/>
    <attribute name="CodGME" type="int" use="optional"/>
    <attribute name="CodGMEMTE" type="string" use="optional"/>
    <attribute name="IdOfferta" type="pd:tyIdOfferta" use="optional"/>
    <attribute name="IdSessione" type="string" use="optional"/>
    <attribute name="Status" type="pd:tyTransactionStatus" use="required"/>
    <attribute name="OriginalReferenceNumber" type="string" use="required"/>
  </complexType>
</schema>
```

5.2 TN (Transaction Notification)

Esempio di TN a seguito Proposta

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="d75252596f174e3e9ec70c72e2b6797f" MessageDate="2007-03-13" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="700c6ce07f7b43549ce92f7911bac431">
    <TransactionDetail xsi:type="tyNotificaTC">
      <NotificaControparte TipoNotifica="Sottomessa" IdTransazione="696" OperatoreProponente="OEYYYYYY" DataInizio="2007-03-23" DataFine="2007-03-23" DataScadenzaRichiesta="2007-03-21" DataSottomissione="2007-03-13" IdMessaggio="2865">
        <ProfiloStandard Qty="144" Profilo="BSLD" />
      </NotificaControparte>
    </TransactionDetail>
  </Transaction>
</Message>
```

Esempio di TN a seguito Conferma

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="80d951fad81440da95febdd67965efc2" MessageDate="2007-03-13" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEYYYYY</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="400d57ca44434f718f63038a3eb902f7">
    <TransactionDetail xsi:type="tyNotificaTC">
      <NotificaProponente TipoNotifica="Accettata" IdTransazione="696" CodiceMnemonicoProponente="orasi"
OperatoreControparte="OEXXXXX" DataCambioStato="2007-03-13" DataInizio="2007-03-28" DataFine="2007-03-28" DataScadenzaRichiesta="2007-03-26" DataSottomissione="2007-03-13" IdMessaggio="2889" />
    </TransactionDetail>
  </Transaction>
</Message>
```

Esempio di TN a seguito Rifiuto

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="c6eea7ba9b664501a5ec8e416495a4d4" MessageDate="2007-03-13" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEYYYYY</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="5c08add1fb37451eb96ffc4600228709">
    <TransactionDetail xsi:type="tyNotificaTC">
      <NotificaProponente TipoNotifica="Rifiutata" IdTransazione="696" CodiceMnemonicoProponente="orasi"
OperatoreControparte="OEXXXXX" DataCambioStato="2007-03-13" DataInizio="2007-03-17" DataFine="2007-05-01" DataScadenzaRichiesta="2007-03-15" DataSottomissione="2007-03-13" IdMessaggio="2851" />
    </TransactionDetail>
  </Transaction>
</Message>
```

Esempio di TN a seguito Ritiro

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="1b79babea19f4fb5b17bb1f86caa1524" MessageDate="2007-03-13" xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="6506283ef8fe45d1998257a187afd895">
    <TransactionDetail xsi:type="tyNotificaTC">
      <NotificaControparte TipoNotifica="Ritirata" IdTransazione="696" OperatoreProponente="OEYYYYY" DataCambioStato="2007-03-13" DataInizio="2007-03-30" DataFine="2007-03-30" DataScadenzaRichiesta="2007-03-28" DataSottomissione="2007-03-13" IdMessaggio="2870" />
    </TransactionDetail>
  </Transaction>
</Message>
```

Esempio di TN a seguito di Abbinamento simmetrico

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="0af0cacfa9a04358aba156a443e491e3" MessageType="Notify" MessageDate="2007-05-10" MessageTime="14:47:57.2081698+02:00"
xmlns="urn:XML-PCE">
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode> OEXXXXX</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction TransactionCode="c745f02028374c97a9d6d109d15acc90" MPN="ProvaNotifAbbControparte">
    <TransactionDetail xsi:type="tyNotificaTC">
      <NotificaControparte TipoNotifica="Abbinata" IdTransazione="794" OperatoreProponente=" OEYYYYY" DataCambioStato="2007-05-10" DataInizio="2007-05-17" DataFine="2007-06-02" DataScadenzaRichiesta="2007-05-15" DataSottomissione="2007-05-10" IdMessaggio="3705" />
    </TransactionDetail>
  </Transaction>
</Message>
```

5.2.1 Ce_NotificaTC.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">
  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />
  <complexType name="tyNotificaTC">
    <choice>
      <element name="NotificaControparte" minOccurs="1" maxOccurs="1" >
        <complexType>
          <sequence>
            <choice>
              <element name="ProfiloStandard" minOccurs="0">
                <complexType>
                  <attribute name="Qty" type="pd:tyQtyMWh" use="required"/>
                  <attribute name="Profilo" type="pd:tyCodiceProfilo" use="required"/>
                </complexType>
              </element>
              <element name="ProfiloCustom" minOccurs="0">
                <complexType>
                  <sequence>
                    <element name="TCAggregatoGiornaliero" type="pd:tyTCAggregatoGiornaliero" minOccurs="1" maxOccurs="unbounded"/>
                  </sequence>
                  <attribute name="ApplicationData" type="string" use="optional"/>
                </complexType>
              </element>
            </choice>
          </sequence>
          <attribute name="TipoNotifica" type="pd:tyTransCommStatus" use="required"/>
          <attribute name="IdTransazione" type="int" use="required"/>
          <attribute name="OperatoreProponente" type="pd:tyCodiceOperatore" use="required"/>
          <attribute name="DataCambioStato" type="date" use="optional"/>
          <attribute name="DataInizio" type="date" use="required"/>
          <attribute name="DataFine" type="date" use="required"/>
          <attribute name="DataScadenzaRichiesta" type="date" use="required"/>
          <attribute name="DataSottomissione" type="date" use="required"/>
          <attribute name="IdMessaggio" type="int" use="required"/>
        </complexType>
      </element>
      <element name="NotificaProponente" minOccurs="1" maxOccurs="1">
        <complexType>
          <sequence>
            <choice>
              <element name="ProfiloStandard" minOccurs="0">
                <complexType>
                  <sequence>
                    <element name="TCItem" type="pd:tyTCItem" minOccurs="1" maxOccurs="unbounded"/>
                  </sequence>
                  <attribute name="Profilo" type="pd:tyCodiceProfilo" use="required"/>
                </complexType>
              </element>
              <element name="ProfiloCustom" minOccurs="0">
                <complexType>
                  <sequence>
                    <element name="ItemPC" type="pd:tyItemPC" minOccurs="1" maxOccurs="unbounded"/>
                  </sequence>
                  <attribute name="ApplicationData" type="string" use="optional"/>
                </complexType>
              </element>
            </choice>
          </sequence>
          <attribute name="TipoNotifica" type="pd:tyTransCommStatus" use="required"/>
          <attribute name="IdTransazione" type="int" use="required"/>
          <attribute name="CodiceMnemonicoProponente" type="pd:tyTransCommCustomCode" use="optional"/>
          <attribute name="OperatoreControparte" type="pd:tyCodiceOperatore" use="required"/>
          <attribute name="DataCambioStato" type="date" use="optional"/>
          <attribute name="DataInizio" type="date" use="required"/>
          <attribute name="DataFine" type="date" use="required"/>
          <attribute name="DataScadenzaRichiesta" type="date" use="required"/>
          <attribute name="DataSottomissione" type="date" use="required"/>
          <attribute name="IdMessaggio" type="int" use="required"/>
        </complexType>
      </element>
    </choice>
  </complexType>
</schema>
```

5.3 PGM

```
<?xml version="1.0"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
MessageCode="8a031c41aa7e4782b849604fb6630409" MessageType="Notify" MessageDate="2007-04-19" MessageTime="12:31:43.1116635+02:00"
MessageSubject="TransactionPCEPrograms" xmlns="urn:XML-PCE"> <Version>1.0.1.0</Version>
<Header>
  <Sender>
    <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    <UserMsgCode>None</UserMsgCode>
  </Sender>
  <Receiver>
    <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    <UserMsgCode>None</UserMsgCode>
  </Receiver>
</Header>
<Transaction TransactionCode="f0e7ac5dfc8b405d9052a6eb08bd29c8" MPN="OEXXXXX-00">
<PCEPrograms>
  <PCEProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-03-21" Hour="1">
    <Unit URN="UP_AEM-BRAUL_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="951"
QtyMWh="10,312" OrigPriceMWh="10,17" QtyBalancedMWh="10,312" MPN="OEXXXXX-00" />
    <Unit URN="UP_CASSANO_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="952" QtyMWh="4,4"
OrigPriceMWh="10,17" QtyBalancedMWh="4,3" MPN="OEXXXXX-00" />
    <Unit URN="UP_XXXX_NORD_B" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="953" QtyMWh="4,4" OrigPriceMWh="10,17" QtyBalancedMWh="4,4" MPN="OEXXXXX-00" />
  </PCEProgram>
  <PCEProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-03-21" Hour="2">
    <Unit URN="UP_XXX-BRAUL_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="954" QtyMWh="4,4" OrigPriceMWh="11,17" QtyBalancedMWh="4,4" MPN="OEXXXXX-01" />
    <Unit URN="UP_XXXXXX_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="955" QtyMWh="10,0" OrigPriceMWh="10,17" QtyBalancedMWh="10,0" MPN="OEXXXXX-01" />
    <Unit URN="UP_YYYY_NORD_B" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="956" QtyMWh="4,4" OrigPriceMWh="10,17" QtyBalancedMWh="4,4" MPN="OEXXXXX-01" />
  </PCEProgram>
  <PCEProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-03-21" Hour="3">
    <Unit URN="UP_SSSSS_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="957" QtyMWh="7,9" OrigPriceMWh="12,17" QtyBalancedMWh="7,6" MPN="OEXXXXX-02" />
    <Unit URN="UP_XXXXX_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="958" QtyMWh="9,9" OrigPriceMWh="10,17" QtyBalancedMWh="9,9" MPN="OEXXXXX-02" />
    <Unit URN="UP_YYYY_NORD_B" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="959" QtyMWh="1,5" OrigPriceMWh="10,17" QtyBalancedMWh="1,5" MPN="OEXXXXX-02" />
  </PCEProgram>
  <PCEProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-03-21" Hour="4">
    <Unit URN="UP_YXXX_NORD_B" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="962" QtyMWh="1,5" OrigPriceMWh="10,17" QtyBalancedMWh="1,5" MPN="OEXXXXX-03" />
    <Unit URN="UP_AXX-CVVV_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="960" QtyMWh="5,9" OrigPriceMWh="9,27" QtyBalancedMWh="5,9" MPN="OEXXXXX-03" />
    <Unit URN="UP_XXXX_1" Type="P" CodeZone="NORD" Status="ProgramSent" IdProgrammaXml="3026"
IdOfferta="961" QtyMWh="13,9" OrigPriceMWh="10,17" QtyBalancedMWh="11,6" MPN="OEXXXXX-03" />
  </PCEProgram>
</PCEPrograms>
</Transaction>
</Message>
```


5.3.1 Ce_PGM.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="PCEPrograms" >
    <complexType>
      <sequence maxOccurs="unbounded">
        <element name="PCEProgram" type="pd:tyPCEProgram" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyPCEProgram">
    <sequence maxOccurs="unbounded">
      <element name="Unit" type="pd:tyPGMCommon"/>
    </sequence>
    <attribute name="CE" type="pd:tyCodiceContoEnergia" use="required"/>
    <attribute name="UdD" type="pd:tyCodiceOperatore" use="required"/>
    <attribute name="Date" type="date" use="required"/>
    <attribute name="Hour" type="pd:tyHourIntervalType" use="required"/>
    <attribute name="Status" type="string" use="optional"/>
  </complexType>

  <complexType name="tyPGMCommon">
    <attribute name="URN" type="pd:tyCodiceUnita" use="required"/>
    <attribute name="Type" type="pd:tyTipoUnita" use="required"/>
    <attribute name="CodeZone" type="pd:tyCodiceZona" use="required"/>
    <attribute name="Status" type="string" use="required"/>
    <attribute name="IdProgrammaXml" type="int" use="required"/>
    <attribute name="IdOfferta" type="pd:tyIdOfferta" use="required"/>
    <attribute name="QtyMWh" type="pd:tyQtyMWh" use="required"/>
    <attribute name="OrigPriceMWh" type="pd:tyPGMPPriceMWh" use="required"/>
    <attribute name="QtyBalancedMWh" type="pd:tyQtyMWh" use="optional"/>
    <attribute name="QtyMGPMWh" type="pd:tyQtyMWh" use="optional"/>
    <attribute name="PriceMWh" type="pd:tyPGMPPriceMWh" use="optional"/>
    <attribute name="MPN" type="string" use="optional"/>
    <attribute name="ErrorOrigin" type="string" use="optional"/>
    <attribute name="ErrorCode" type="string" use="optional"/>
    <attribute name="ErrorText" type="string" use="optional"/>
  </complexType>
</schema>
```

5.4 SBIL

```
<?xml version="1.0" encoding="utf-8" ?>
<Message
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  MessageDate="2005-08-23"
  xmlns="urn:XML-PCE"
  MessageCode="7f5bd6368d3f4b6a9cd8426bddc19e6e"
  MessageType="Request"
  >
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction
    TransactionCode="5544eabfad084eb6b0483b98a83116ee">
    <PCESbilPrograms>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="1" QtyMWhPgm="76,3">22,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="2" QtyMWhPgm="86,3">-22,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="3" QtyMWhPgm="16,3">0,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="4" QtyMWhPgm="1,3">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="5" QtyMWhPgm="3,3">12,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="6" QtyMWhPgm="13,0">2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="7" QtyMWhPgm="13,0">2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="8" QtyMWhPgm="93,3">1,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="9" QtyMWhPgm="103,3">-12,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="10" QtyMWhPgm="23,3">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="11" QtyMWhPgm="24,3">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="12" QtyMWhPgm="26,3">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="13" QtyMWhPgm="0,0">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="14" QtyMWhPgm="0,0">-2,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="15" QtyMWhPgm="1,3">0,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="16" QtyMWhPgm="123,3">1,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="17" QtyMWhPgm="99,3">0,0</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="18" QtyMWhPgm="88,3">0,0</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="19" QtyMWhPgm="29,3">0,3</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="20" QtyMWhPgm="16,3">2,1</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="21" QtyMWhPgm="17,3">12,4</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="22" QtyMWhPgm="19,3">-2,2</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="23" QtyMWhPgm="20,3">2,1</PCESbilProgram>
      <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="24" QtyMWhPgm="12,3">2,1</PCESbilProgram>
    </PCESbilPrograms>
  </Transaction>
</Message>
```

5.4.1 Ce_SBIL.xsd

```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="PCESbilPrograms" >
    <complexType>
      <sequence maxOccurs="unbounded">
        <element name="PCESbilProgram" type="pd:tyPCESbilProgram" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyPCESbilProgram">
    <simpleContent>
      <extension base = "pd:tyQtyMWh">
        <attribute name="CE" type="pd:tyCodiceContoEnergia" use="required"/>
        <attribute name="UdD" type="pd:tyCodiceOperatore" use="required"/>
        <attribute name="Date" type="date" use="required"/>
        <attribute name="Hour" type="pd:tyHourIntervalType" use="required"/>
        <attribute name="QtyMWhPN" type="pd:tyQtyMWh" use="optional"/>
        <attribute name="QtyMWhPgm" type="pd:tyQtyMWh" use="required"/>
      </extension>
    </simpleContent>
  </complexType>
</schema>
```

5.5 BUS

```
<?xml version="1.0" encoding="utf-8" ?>
<Message
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  MessageDate="2005-08-23"
  xmlns="urn:XML-PCE"
  MessageCode="7f5bd6368d3f4b6a9cd8426bddc19e6e"
  MessageType="Request"
  >
  <Version>1.0.1.0</Version>
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction
    TransactionCode="5544eabfad084eb6b0483b98a83116ee">
    <PCEBuses>
      <PCEBus MarketParticipantNumber="OEXXXXX" Type="Preliminary" Cumulative="No">
        <Market>MGP</Market>
        <Date>2007-02-01</Date>
        <UnitReferenceNumber>UP_AAAAAA</UnitReferenceNumber>
        <ReferenceMarketParticipantNumber>OEXXXXX</ReferenceMarketParticipantNumber>
        <Quantity Hour="1" UnitOfMeasure="MWh">12,0</Quantity>
        <Quantity Hour="2" UnitOfMeasure="MWh">11,9</Quantity>
        <Quantity Hour="3" UnitOfMeasure="MWh">13,0</Quantity>
        <Quantity Hour="4" UnitOfMeasure="MWh">13,9</Quantity>
        <Quantity Hour="5" UnitOfMeasure="MWh">11,8</Quantity>
        <Quantity Hour="6" UnitOfMeasure="MWh">14,0</Quantity>
        <Quantity Hour="7" UnitOfMeasure="MWh">16,2</Quantity>
        <Quantity Hour="8" UnitOfMeasure="MWh">35,0</Quantity>
        <Quantity Hour="9" UnitOfMeasure="MWh">40,9</Quantity>
        <Quantity Hour="10" UnitOfMeasure="MWh">42,8</Quantity>
        <Quantity Hour="11" UnitOfMeasure="MWh">39,8</Quantity>
        <Quantity Hour="12" UnitOfMeasure="MWh">46,0</Quantity>
        <Quantity Hour="13" UnitOfMeasure="MWh">42,8</Quantity>
        <Quantity Hour="14" UnitOfMeasure="MWh">44,0</Quantity>
        <Quantity Hour="15" UnitOfMeasure="MWh">42,8</Quantity>
        <Quantity Hour="16" UnitOfMeasure="MWh">40,9</Quantity>
        <Quantity Hour="17" UnitOfMeasure="MWh">42,1</Quantity>
        <Quantity Hour="18" UnitOfMeasure="MWh">42,1</Quantity>
        <Quantity Hour="19" UnitOfMeasure="MWh">44,0</Quantity>
        <Quantity Hour="20" UnitOfMeasure="MWh">50,0</Quantity>
        <Quantity Hour="21" UnitOfMeasure="MWh">49,9</Quantity>
        <Quantity Hour="22" UnitOfMeasure="MWh">23,1</Quantity>
        <Quantity Hour="23" UnitOfMeasure="MWh">19,2</Quantity>
        <Quantity Hour="24" UnitOfMeasure="MWh">17,2</Quantity>
      </PCEBus>
      <PCEBus MarketParticipantNumber="OEXXXXX" Type="Preliminary" Cumulative="No">
        <Market>MGP</Market>
        <Date>2007-02-01</Date>
        <UnitReferenceNumber>UP_BBBBBB</UnitReferenceNumber>
        <ReferenceMarketParticipantNumber>OEXXXXX</ReferenceMarketParticipantNumber>
        <Quantity Hour="1" UnitOfMeasure="MWh">-6,0</Quantity>
        <Quantity Hour="2" UnitOfMeasure="MWh">-5,9</Quantity>
        <Quantity Hour="3" UnitOfMeasure="MWh">-3,0</Quantity>
        <Quantity Hour="4" UnitOfMeasure="MWh">-7,1</Quantity>
        <Quantity Hour="5" UnitOfMeasure="MWh">-9,8</Quantity>
        <Quantity Hour="6" UnitOfMeasure="MWh">-7,0</Quantity>
        <Quantity Hour="7" UnitOfMeasure="MWh">16,2</Quantity>
        <Quantity Hour="8" UnitOfMeasure="MWh">35,0</Quantity>
        <Quantity Hour="9" UnitOfMeasure="MWh">40,9</Quantity>
        <Quantity Hour="10" UnitOfMeasure="MWh">42,8</Quantity>
        <Quantity Hour="11" UnitOfMeasure="MWh">39,8</Quantity>
        <Quantity Hour="12" UnitOfMeasure="MWh">46,0</Quantity>
        <Quantity Hour="13" UnitOfMeasure="MWh">42,8</Quantity>
        <Quantity Hour="14" UnitOfMeasure="MWh">44,2</Quantity>
      </PCEBus>
    </Transaction>
  </Transaction>
</Message>
```

```
<Quantity Hour="15" UnitOfMeasure="MWh">42,8</Quantity>
<Quantity Hour="16" UnitOfMeasure="MWh">40,9</Quantity>
<Quantity Hour="17" UnitOfMeasure="MWh">42,1</Quantity>
<Quantity Hour="18" UnitOfMeasure="MWh">42,1</Quantity>
<Quantity Hour="19" UnitOfMeasure="MWh">44,0</Quantity>
<Quantity Hour="20" UnitOfMeasure="MWh">50,0</Quantity>
<Quantity Hour="21" UnitOfMeasure="MWh">49,9</Quantity>
<Quantity Hour="22" UnitOfMeasure="MWh">23,1</Quantity>
<Quantity Hour="23" UnitOfMeasure="MWh">19,2</Quantity>
<Quantity Hour="24" UnitOfMeasure="MWh">17,2</Quantity>
</PCEBus>
</PCEBuses>
</Transaction>
</Message>
```

5.5.1 Ce_BUS.xsd

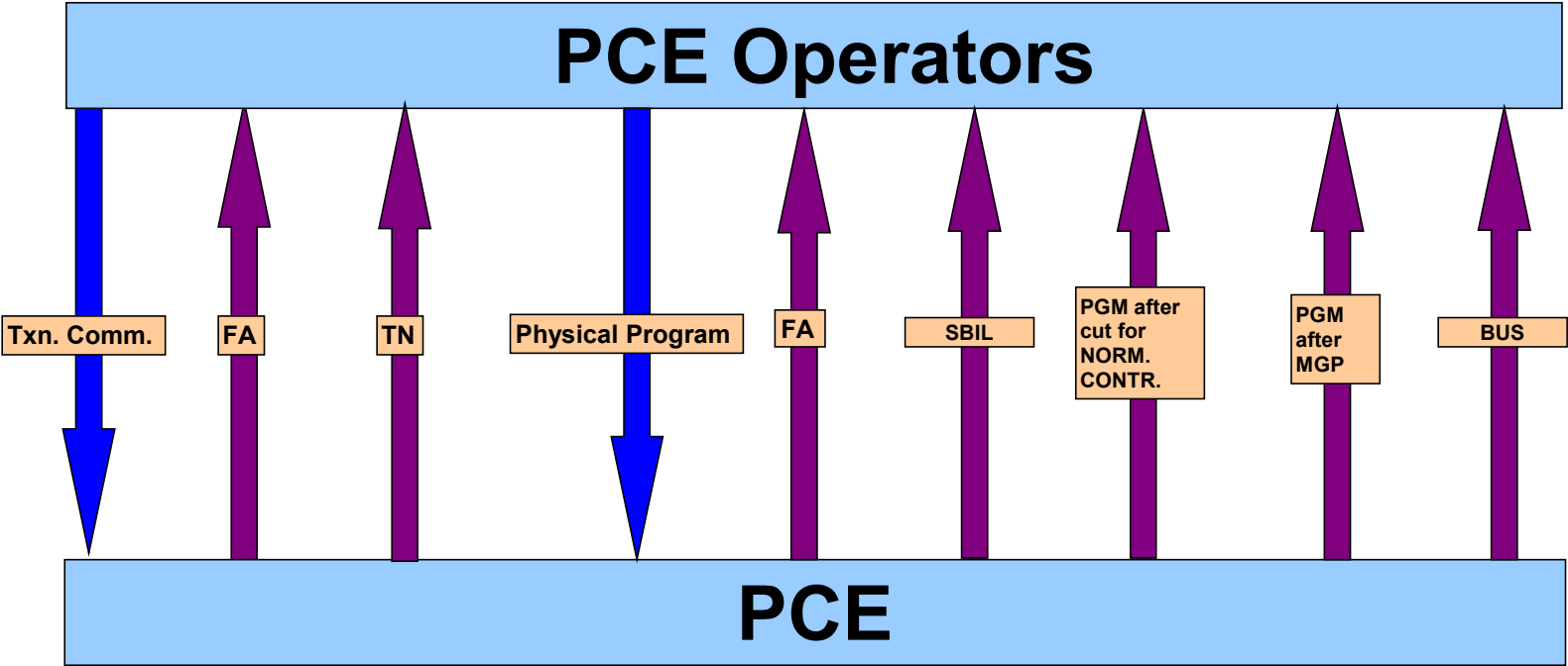
```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

  <include schemaLocation="RegistrationTypes.xsd" />
  <include schemaLocation="Ce_Types.xsd" />

  <element name="PCEBuses" >
    <complexType>
      <sequence maxOccurs="unbounded">
        <element name="PCEBus" type="pd:tyPCEBus" />
      </sequence>
    </complexType>
  </element>

  <complexType name="tyPCEBus">
    <sequence>
      <element name="Market" type="pd:marketType"/>
      <element name="Date" type="date"/>
      <element name="UnitReferenceNumber" type="pd:tyCodiceUnita"/>
      <element name="ReferenceMarketParticipantNumber" type="pd:tyCodiceOperatore"/>
      <element name="UnbalancedMarketParticipantNumber" type="pd:tyCodiceOperatore" minOccurs="0" maxOccurs="1"/>
      <element name="Quantity" minOccurs="1" maxOccurs="25">
        <complexType>
          <simpleContent>
            <extension base="pd:tyQtyMWh">
              <attribute name="Hour" type="int" use="required"/>
              <attribute name="UnitOfMeasure" type="pd:tyUnitOfMeasure" use="required"/>
            </extension>
          </simpleContent>
        </complexType>
      </element>
    </sequence>
    <attribute name="MarketParticipantNumber" type="pd:tyCodiceOperatore" use="required"/>
    <attribute name="Type" type="pd:unitScheduleType" use="required"/>
    <attribute name="Cumulative" type="pd:yesNoType" use="required"/>
  </complexType>

</schema>
```



TransazioneCommerciale Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message						
xmlns:xsd	A	N/A	N/A	1 for file	N/A	
xmlns:xsi	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns			A/N	1/1		Defines the schema instance being used.
MessageCode	A		A/N	1/1	max=12	Uniquely identifies the XML name space.
MessageType	A	Request				Message identifier
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Message Type
						Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
PTransaction						
TransactionCode	A		A/N	0/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1	string	application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
TrComm	E	(see TrComm structure)		1/1		
TrComm						
	E	(see TransazioneCommerciale structure)		1/1		
TransazioneCommerciale						
TransazioneCommerciale						
	E			1 /1		choice with ProfiloCustom
ProfiloStandard	E	(see ProfiloStandard structure)		1/1		choice with ProfiloStandard
ProfiloCustom	E	(see ProfiloCustom structure)				
CodiceAbbinamento	A		A/N	1/1	max=32	code inserted by the submitter used by the counterparty in acceptance
CodiceMnemonic	A		A/N	0/1	max=32	mnemonic code inserte by the submitter
OperatoreProponente	A		A/N	1/1	max=16	The unique identifier of the submitter
OperatoreControparte	A		A/N	1/1	max=16	The unique identifier of the counterparty
DataScadenzaRichiesta	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
ProfiloStandard						
TCItem	E	(see TCItem structure)		1 or more		distribution of the energy quantity on different UdD
Profilo	A	BSLD,PEAK,OFFPK,WEND		1/1		Identifier of the standard profile
DataInizio	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine	A	Valid Date	YYYY-MM-DD	1/1		end date of teh standard profile
ProfiloCustom						
ItemPC	E	(see ItemPC structure)		1 or more		
ItemPC						
TCItem	A	(see TCItem structure)		1 or more		
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-25]	N	1/1		period of the flow date
TCItem						
ContoEnergia	A		A/N	1/1	max=16	Energy Account identifier
OpRIFCE	A		A/N	1/1	max=32	Reference Operator
Qty	A	Valid italian-localized decimal value.	99999,9		max=9	Energy Quantity

Update TransazioneCommerciale Implementation Guide for PCE						
Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xmlns:xsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmlns						Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPC)	A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
PTransaction						
TransactionCode	A		A/N	0/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1	string	application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
TrCommUpdate	E	(see TrCommUpdate structure)		1/1		
TrCommUpdate						
TransazioneCommerciale_UpdateStatus	E	(see TransazioneCommerciale structure)		1/1		
TransazioneCommerciale_UpdateStatus						
ProfiloStandard	E	(see ProfiloStandard structure)		0/1		choice with ProfiloCustom: if Stato="Rifiutata" or "Ritirata" the field is not present
ProfiloCustom	E	(see ProfiloCustom structure)		0/1		choice with ProfiloStandard: if Stato="Rifiutata" or "Ritirata" the field is not present
IdTransazione	A	number		1/1	max=32	Identifier assigned by the system to the original proposal
Stato	A		A/N	1/1		Type of Update (Accettata,Rifiutata,Ritirata)
Operatore	A		A/N	1/1	max=16	The unique identifier of the counterparty
Utente	A		A/N	0/1	max=16	The unique identifier of the user representing te counterparty
CodiceAbbinamento	A		A/N	0/1	max=32	code inserted by the submitter used by the counterparty in acceptance
CodiceMnemonico	A		A/N	0/1	max=32	mnemonic code used by the Counterparty
ProfiloStandard						
TCItem	E	(see TCItem structure)		1 or more		distribution of the energy quantity on differnet UdD
Profilo	A	BSLD,PEAK,OPFK,WEND		1/1		Identifier of the standard profile
DataInizio	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine	A	Valid Date	YYYY-MM-DD	1/1		end date of teh standard profile
ProfiloCustom						
ItemPC	E	(see ItemPC structure)				
ItemPC						
TCItem	A	(see TCItem structure)		1 or more		
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-25]	N	1/1		period of the flow date
TCItem						
ContoEnergia	A		A/N	1/1	max=16	Energy Account Identifier
OpRifCE	A		A/N	1/1	max=32	Reference Operator
Qty	A	Valid italian-localized decimal value.	99999,9	1/1	max=9	Energy Quantity

Programmazione Fisica Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurance s Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xmlns:xsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmlns						Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
PTransaction						
TransactionCode	A		A/N	0/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1	string	application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
BidSubmittal	E	(see BidSubmittal structure)		1/1		
BidSumittal						
QtyMWh	E	(see QtyMWh structure)		1 /1		
QtyMWh						
Date	A	Valid italian-localized decimal value.	Decimal=9999,999	1/1		Quantity of theOffer
Hour	A	Valid Date	YYYY-MM-DD	1/1		Flow Date of the offer
CET	A	number [1-25]	N	1/1		Period of the offer
URN	A		A/N	1/1	max=16	Energy Account identifier
UOM	A	MWh	A/N	0/1	max=16	Alphanumeric code identifying the Consumption or Production Unit
PRI	A		A/N	1/1		Unit of measure
RI	A	Valid italian-localized decimal	Decimal=9999,99	1/1		Price of the Offer
	A		A/N	1/1		Replacement Indicator (Yes/No)

Programmazione Fisica Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xmns:xsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmns						Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
PTransaction						
TransactionCode	A		A/N	0/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1	string	application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
BidSubmittal_V2	E	(see BidSubmittal_V2 structure)		1/1		
BidSubmittal_V2						
Offers	E	(see Offers structure)		1/1		
Offers						
Offer	E	(see Offer structure)		1/100		
TY	A			1/1		Offer Type (Standard, Block)
RT	A			1/1		Time Resolution of the offer (PT15, PT30, PT60). Some time resolution cannot be accepted by system.
Date	A	Valid Date	YYYY-MM-DD	1/1		Flow Date of the offer
CET	A		A/N	1/1	max=16	Energy Account identifier
URN	A		A/N	1/1	max=16	Alphanumeric code identifying the Consumption or Production Unit
UOM	A	MWh	A/N	0/1		Unit of measure
PRI	A	Valid italian-localized decimal value.	Decimal=9999.99	1/1		Price of the Offer
RI	A		A/N	1/1		Replacement Indicator (Yes/No)
MAR	A	Valid italian-localized decimal value.	Decimal=1.000	0/1		Minimum Acceptance Ratio, interval value allowed [0,1]
Offer						
Period	A	number [1-100]	N	1/1		Period of the offer
Qty	A	Valid italian-localized decimal value.	Decimal=9999.9	1/1		Qty of the offer

PGM Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message						
xmlns:xsd	A	N/A	N/A	1 for file	N/A	
xmlns:xsi	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns			A/N	1/1		Defines the schema instance being used.
MessageCode	A		A/N	1/1	max=12	Uniquely identifies the XML name space.
MessageType	A	Request				Message identifier
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Message Type
MessageTime	A			0/1		Date of the message
MessageSubject	A		A/N	0/1		Time of the message
Version	E	1.0.1.0	A/N			Identifies the type of the transaction inside the message
Header	E	(see Header data structure)		1/1		Identifies the version of the CeMessageSchema
PTransaction	E	(see PTransactiondata structure)		1 or more		Sender and recipient of the message
						Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		A/N	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
PCEPrograms	E	(see PCEPrograms structure)		1/1		
PCEPrograms						
PCEProgram	E	N/A	N/A	1/1	N/A	Define the set of all PCE programs of this type
				1 or more		
PCEProgram						
Unit	E	(see Unit structure)		1 or more		Define the Bilateral Program for this transaction
CE	A		A/N	1/1		Energy Account identifier
UdD	A		A/N	1/1		Reference Operator
Date	A	Valid date	YYYY-MM-DD (xs:date)	1/1	max=10	The Date of the Energy Flow
Hour	A		N	1/1	max=2	The relevant period in the Energy Flow day, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00)
Status	A	Enumeration value among: ProgramAccepted, ProgramRefused, ProgramNotSent.	ProgramAccepted ProgramRefused ProgramNotSent ProgramReplaced ProgramIPEXRefused	1/1		Status of the PCE Program (ProgramAccepted, ProgramRefused, ProgramNotSent)
Unit						
URN	A	Valid Unit Reference Number in GR TN Unit Register	A/N	1/1	max=16	Alphanumeric code identifying the Consumption or Production Unit
Type	A	Enumeration value among: P (Production) C (Consumption) M (Mixed)	P,C or M	1/1	max=1	Indicates the type of unit ; P production, C consumption, M both
CodeZone	A	A valid zone code	A/N	1/1	max=4	Corresponds to the code (4 char) of the zone
	A			1/1	max=15	Status of the PCE program for the specific Unit (ProgramAccepted, ProgramRefused, ProgramNotSent)
Status	A	Enumeration value among: ProgramAccepted, ProgramRefused, ProgramNotSent.	ProgramAccepted ProgramRefused ProgramNotSent ProgramReplaced ProgramIPEXRefused	1/1	int	Identifier of the original message submitted by the PCE Operator containing the original PCE program.
IdProgramXML	A		N	1/1	max=32	GMEunique identifier assigned to the physical program
IdOfferta	A	A valid italian localized number	A/N	1/1	max=9	Corresponds to the original Quantity submitted by the PCE Operator in his programs
QtyMWh	A	A valid italian localized number	Decimal=999,99	1/1	max=6	Corresponds to the original Price submitted by the PCE Operator in his programs (zero if no price)
OrigPriceMWh	A	A valid italian localized number	Decimal=99999,9	0/1	max=9	Corresponds to the quantity decided by the PCE system after the cut for force balancing
QtyBalancedMWh	A	A valid italian localized number	Decimal=99999,9	0/1	max=9	Corresponds to the quantity accepted by the GME system after the execution of MGP
QtyMGPMWh	A	A valid italian localized number	Decimal=9999,999999	0/1	max=11	Corresponds to the price (per MWh) decided by the GME after the execution of MGP.
PriceMWh	A			0/1	max=32	unique identifier for the transaction assigned by the PCE Operator in his original Physical program
MPN	A	BN, FA, CE	A/N	0/1	max=2	FA means an error of the corresponding offer before GME MGP Market runs, BN means an error of the corresponding offer after GME MGP Market runs, CE means an error on the consistency check error.
ErrorOrigin	A	A code for the error	A/N	0/1	max=6	A code associated to the above error
ErrorCode	A	A description of the error	A/N	0/1	max=150	A description associated to the above error

CeFunctionalAcknowledgement Implementation Guide for PCE						
Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xmlns:xsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmlns						Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		A/N	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
CeFA	E	(see CeFA structure)		1/1		
CeFA						
FunctionalAcknowledgement	E	(see FunctionalAcknowledgement structure)	N/A	1/1	N/A	Contains tags that define the positive or negative acknowledgement of receipt of the original transaction.
FunctionalAcknowledgement						
OriginalReferenceNumber	A	N/A	A/N	1/1	max=36	Attribute that references the original transaction or document
Status	A	Accept or Reject	N/A	1/1	N/A	In the CeFunctionalAcknowledgment transaction indicates: 1. If the document is accepted (Accept) which means that all the transactions in the document have passed validation, partially accepted (Partial) which means that at least one transaction has been rejected, or rejected (Reject) which means that all the transaction have been rejected. 2. That a single transaction has been accepted or rejected.
CodGME	A	number		0/1	max=32	Identifier assigned by the system to the proposal: it's present when the TransactionType is TrComm
IdOfferta	A		A/N	0/1	max=32	GMEunique identifier assigned to the physical program (only for FA referred to physical program)
RejectInformation	E	(see Reject Information data structure)	N/A	0 when Status is Accept, 1 otherwise	N/A	
RejectInformation						
		N/A	N/A	0 or more RejectInformation per PIPEFunctionalAcknowledgment	N/A	Contains tags that define the reasons for rejection of the transaction or the reason of the sending of bilateral notification transaction
Reason	E	N/A	A/N	1/1	max=30	A short description of the rejection of the transaction
ReasonText	E	N/A	A/N	0/1	max=250	The text explanation for the rejection of the transaction

Transaction Notification Implementation Guide for PCE						
Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xminsxsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xminsxsi	A		A/N	1/1		Defines the schema instance being used. Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTtransaction	E	(see PTtransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		A/N	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
MPN	A		A/N	0/1	max=32	unique identifier for the transaction assigned by the PCE Operator
TransactionDetail	E	(see CeFA structure)		1/1		
TransactionDetail						
NotificaControparte	E	(see NotificaControparte structure)		1/1		choice with NotificaProponente
NotificaProponente	E	(see NotificaProponente structure)		1/1		choice with NotificaControparte
NotificaControparte						
ProfiloStandard	E	(see ProfiloStandard structure)		0/1		
ProfiloCustom	A	(see ProfiloCustom structure)		0/1		
TipoNotifica	A	Sottomessa,Ritirata,Abbinata		1/1		
IdTransazione	A		N	1/1		The unique identifier of the transaction
OperatoreProponente	A		A/N	1/1	max=16	The unique identifier of the submitter
DataCambioStato	A	Valid Date	YYYY-MM-DD	1/1		The date of the last change status of the proposal
DataInizio	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
DataScadenzaRichiesta	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
DataSottomissione	A			1/1		Submission date of the proposal
IdMessaggio	A			1/1		The Original identifier of the transaction that generated the proposal
ProfiloStandard						
Qty	A	Valid italian-localized decimal value.	99999.999	1/1	max=9	Energy Quantity of the standard profile
Profilo	A	BSLD,PEAK,OPFK,WEND		1/1		Identifier of the standard profile
ProfiloCustom						
TCAggregatoGiornaliero	E	(seeTCAggregatoGiornaliero structure)		1 or more		
ApplicationData	A		A	0/1		string application specific data (not used)
TCAggregatoGiornaliero						
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-25]	N	1/1		period of the flow date
Qty	A	Valid italian-localized decimal value.	99999.999	1/1	max=9	Energy Quantity
NotificaProponente						
ProfiloStandard	E	(see ProfiloStandard structure)		0/1		
ProfiloCustom	E	(see ProfiloCustom structure)		0/1		
TipoNotifica	A	Accettata,Rifutata,Abbinata		1/1		
IdTransazione	A		N	1/1		The unique identifier of the transaction
CodiceMnemonicoProponente	A		A/N	0/1	max=32	mnemonic code inserte by the submitter
OperatoreControparte	A		A/N	1/1	max=16	The unique identifier of the counterparty
DataCambioStato	A	Valid Date	YYYY-MM-DD	1/1		The date of the last change status of the proposal
DataInizio	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
DataScadenzaRichiesta	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
DataSottomissione	A			1/1		Submission date of the proposal
IdMessaggio	A			1/1		The Original identifier of the transaction that generated the proposal
ProfiloStandard						
TCItem	E	(see TCItem structure)		1 or more		
Profilo	A	BSLD,PEAK,OPFK,WEND		1/1		Identifier of the standard profile
ProfiloCustom						
ItemPC	E	(see ItemPC structure)		1 or more		
ApplicationData						
ItemPC						
TCItem	A	(see TCItem structure)		1 or more		
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-25]	N	1/1		period of the flow date
Profilo	A	BSLD,PEAK,OPFK,WEND		1/1		Identifier of the standard profile
TCItem						
ContoEnergia	A		A/N	1/1	max=16	Energy Account Identifier
OpRICE	A		A/N	1/1	max=32	Reference Operator
Qty	A	Valid italian-localized decimal value.	99999.9	1/1	max=9	Energy Quantity

SBIL Implementation Guide for PCE						
Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message						
xmlns:xsd	A	N/A	N/A	1 for file	N/A	
xmlns:xsi	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns	A		A/N	1/1		Defines the schema instance being used.
MessageCode	A		A/N	1/1	max=12	Uniquely identifies the XML name space.
MessageType	A	Request				Message identifier
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Message Type
MessageTime	A			0/1		Date of the message
MessageSubject	A		A/N	0/1		Time of the message
Version	E	1.0.1.0	A/N			identifies the type of the transaction inside the message
Header	E	(see Header data structure)		1/1		Identifies the version of the CeMessageSchema
PTransaction	E	(see PTransactiondata structure)		1 or more		Sender and recipient of the message
Header						
Sender	E	(see Sender data structure)		1/1		Transaction Container
Receiver	E	(see Receiver data structure)		1/1		message sender
Sender						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		A/N	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
PCESbilPrograms	E	(see PCE PCESbilPrograms structure)		1/1		
PCESbilPrograms						
PCESbilProgram	E	N/A	N/A	01-gen	N/A	Define the physical position of an UdD (subcount)
	E	(see PCE PCESbilProgram structure)	N/A	1 or more		
PCESbilProgram						
	E	Valid italian-localized decimal value.		1 or more		Define the physical difference between the net position and the qty programmed until the time of the generation of the SBIL file of a particular period of an UdD (subcount)
CE	A	A	Decimal=99999,999	1/1	max=9	Define the physical difference between the net position and the qty programmed until the time of the generation of the SBIL file of a particular period of an UdD (subcount)
	A	A	A/N	1/1	max=16	Energy Account identifier
UdD			A/N		max=32	Reference Operator
Date	A	A	Valid Date	YYYY-MM-DD	1/1	Flow Date
Hour	A	A	number [1-25]	N	1/1	period
QtyMWhPgm	E	Valid italian-localized decimal value.	Decimal=99999,9	1/1	max=9	Quantity programmed by the operator until the moment of the SBIL generation.

SBIL Implementation Guide for PCE						
Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
Message		N/A	N/A	1 for file	N/A	
xmlns:xsd	A		A/N	1/1		Associates the actual schema instance being used to the name space.
xmlns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmlns						Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request				Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
MessageSubject	A		A/N	0/1		identifies the type of the transaction inside the message
Version	E	1.0.1.0	A/N			Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
PTransaction	E	(see PTransactiondata structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	(IDGMEPCE)	A/N	1/1	max=16	The unique identifier of the Sender
CompanyName	E		A/N	0/1	max=60	The Name of the Sender
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E		A/N	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		A/N	0/1	max=60	The Name of the Receiver
UserMsgCode	E		A/N	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		A/N	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
PCESbilPrograms	E	(see PCE PCESbilPrograms structure)		1/1		
PCEBuses		N/A	N/A	1/1	N/A	Define the physical position of an UdD (subcount)
PCEBus	E	(see PCE PCESbilProgram structure)	N/A	1 or more		
PCEBus	E					
MarketParticipantNumber	A	A Valid Market Participant ID	A/N	1/1	30	The unique identifier of the Sender
Type	A	Preliminary	Preliminary	1/1	max=22	Preliminary (at the end of the first run of MGP or at the confirmation)
Cummulative	A	always No	A/N	1/1	max=3	The indication if the unit schedule is cummulative or not (in Bilateral System always set to No)
Market	E	MGP (Day Ahead Market)	N/A	1/1	N/A	The alphanumeric code identifying a specific Electricity Market (always MGP)
Date	E	Valid date	YYYYMMDD	1/1	8	Flow Date
UnitReferenceNumber	E	Valid Unit Reference Number	A/N	1/1	max=60	Alphanumeric code identifying the Consumption or Production Unit
ReferenceMarketParticipantNumber	E	Valid ID of a Market Participant	A/N	1/1	max=60	The unique identifier for the PCE Operator as recorded in the TERNA Operator Register who is the Reference Operator for the Unit
Quantity	E	Valid italian-localized decimal value.	Decimal=99999,9	1/25	max=9	The energy value that has been accepted for that specific interval
Hour	A	1 through 25	N	1/1	max=2	The relevant period in the Energy Flow day, 1 being the first hour of the day (00.00.00-01.00.00) and 24 (23 = shorter day in the DST transition, 25=longest day in DST transition) being the last hour of the day (23.00.00-00.00.00)
UnitOfMeasure	A	MWh	A/N	1/1	N/A	The unit of measure which describes the Quantity - always MWh