
Progetto: **PCE**

Sotto Progetto:

Componente:

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 .

2. 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 *CeMessage.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.

2.1 Ce_Message.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="Ce_BaseMessage.xsd" />
  <include schemaLocation="Ce_FunctionalAcknowledgement.xsd" />
  <include schemaLocation="Ce_TrComm.xsd" />
  <include schemaLocation="Ce_NotificaTC.xsd" />
  <include schemaLocation="Ce_BidSubmittal.xsd" />
  <include schemaLocation="Ce_PGM.xsd" />
  <include schemaLocation="Ce_SBIL.xsd" />
  <include schemaLocation="Ce_BUS.xsd" />

  <element name="Version" substitutionGroup="pd:tyVersion" type="string"/>

  <!-- BEGIN FUNCTIONAL ACKNOWLEDGEMENT -->
  <element name="CeFA" substitutionGroup="pd:TransactionDetail">
    <complexType>
      <sequence>
        <element name="FunctionalAcknowledgement" type="pd:tyFunctionalAcknowledgement"/>
      </sequence>
    </complexType>
  </element>
  <!-- END FUNCTIONAL ACKNOWLEDGEMENT -->

  <!-- BEGIN TRANSAZIONI COMMERCIALI -->
  <element name="TrComm" substitutionGroup="pd:TransactionDetail">
    <complexType>
      <sequence>
        <element name="TransazioneCommerciale" type="pd:tyTransComm"/>
      </sequence>
    </complexType>
  </element>

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

  <element name="TrNotificaTC" substitutionGroup="pd:TransactionDetail">
    <complexType>
      <sequence>
        <element name="TransazioneCommerciale_Notifica" type="pd:tyNotificaTC"/>
      </sequence>
    </complexType>
  </element>
```

```
<!-- END TRANSAZIONI COMMERCIALI -->

<!-- BEGIN OFFERTE IN INGRESSO -->
<element name="BidSubmittal" substitutionGroup="pd:TransactionDetail">
  <complexType>
    <sequence>
      <element name="QtyMWh" type="pd:tyBidSubmittalCommon"/>
    </sequence>
  </complexType>
</element>
<!-- END OFFERTE IN INGRESSO -->

<!-- BEGIN PGM -->
<element name="PCEPrograms" substitutionGroup="pd:TransactionDetail">
  <complexType>
    <sequence maxOccurs="unbounded">
      <element name="PCEProgram" type="pd:tyPCEProgram"/>
    </sequence>
  </complexType>
</element>
<!-- END PGM -->

<!-- BEGIN SBIL -->
<element name="PCEsbilPrograms" substitutionGroup="pd:TransactionDetail">
  <complexType>
    <sequence maxOccurs="unbounded">
      <element name="PCEsbilProgram" type="pd:tyPCEsbilProgram"/>
    </sequence>
  </complexType>
</element>
<!-- END SBIL -->

<!-- BEGIN BUS -->
<element name="PCEBuses" substitutionGroup="pd:TransactionDetail">
  <complexType>
    <sequence maxOccurs="unbounded">
      <element name="PCEBus" type="pd:tyPCEBus"/>
    </sequence>
  </complexType>
</element>
<!-- END BUS -->

</schema>
```

2.2 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 ref="pd:tyVersion" />
        <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="TransactionDetail" abstract="true"/>

  <element name="Transaction">
    <complexType>
      <choice>
        <element ref="pd:TransactionDetail" minOccurs="1" maxOccurs="1"/>
        <element name="Error" type="pd:tyError" minOccurs="1" maxOccurs="unbounded"/>
      </choice>
      <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>
      <choice>
```

```
<element ref="pd:TransactionDetail" minOccurs="1" maxOccurs="1"/>
  <element name="Error" type="pd:tyError" minOccurs="1" maxOccurs="unbounded"/>
</choice>
<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>

<element name="tyVersion" abstract="true" type="string" />

</schema>
```

2.3 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>
```

```
<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="Notify" />  
  </restriction>  
</simpleType>
```

```
<simpleType name="tyMessageSubject">  
  <restriction base="string">  
    <enumeration value="TransactionBidSubmittal" />  
    <enumeration value="TransactionCeCmd" />  
    <enumeration value="TransactionCeFA" />  
    <enumeration value="TransactionContiEnergiaDeleghe" />  
    <enumeration value="TransactionOperator" />  
    <enumeration value="TransactionPCEMargins" />  
    <enumeration value="TransactionPCECapGF" />  
    <enumeration value="TransactionPCEOpRif" />  
    <enumeration value="TransactionPriceDetail" />  
    <enumeration value="TransactionPCEBuses" />  
    <enumeration value="TransactionPCEEspOp" />  
    <enumeration value="TransactionPCEMovimentiGaranzieGME" />  
    <enumeration value="TransactionPCEMovimentiContoPagati" />  
    <enumeration value="TransactionPCEPrograms" />  
    <enumeration value="TransactionPCEsbilPrograms" />  
    <enumeration value="TransactionSbilProg" />  
    <enumeration value="TransactionStimeCCT" />  
    <enumeration value="TransactionIVA" />  
    <enumeration value="TransactionIVAOp" />  
    <enumeration value="TransactionPdSR" />  
    <enumeration value="TransactionTrComm" />  
    <enumeration value="TransactionTrCommUpdate" />  
    <enumeration value="TransactionTrNotificaTC" />  
    <enumeration value="TransactionUnit" />  
    <enumeration value="TransactionUnitRelate" />  
    <enumeration value="TransactionUser" />  
    <enumeration value="TransactionUserRelate" />  
    <enumeration value="TransactionZone" />  
    <enumeration value="tyError" />  
  </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="60" />
  </restriction>
</simpleType>

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

</schema>
```

2.4 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="256" />
    </restriction>
  </simpleType>

  <simpleType name="tyPartitaIVA">
    <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>
```

```
</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>
```

```
</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">  
  <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" />  
</simpleType>
```

```
</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="tyAliquotaIVA">  
  <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" />  
    <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>
```

```
</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" />  
  </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>
```

```
<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="float">
    <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">
    <enumeration value="A1"/>
    <enumeration value="A2"/>
    <enumeration value="A3"/>
    <enumeration value="A4"/>
    <enumeration value="A5"/>
    <enumeration value="A6"/>
    <enumeration value="V1"/>
    <enumeration value="V2"/>
    <enumeration value="V3"/>
    <enumeration value="V4"/>
    <enumeration value="V5"/>
  </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>

</schema>
```

2.5 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">

  <element name="RejectInformation">
    <complexType>
      <sequence>
        <element name="Reason" type="pd:tyReasonType"/>
        <element name="ReasonText" type="pd:tyReasonTextType" minOccurs="0" maxOccurs="1"/>
      </sequence>
    </complexType>
  </element>

  <!-- Tipi aggiunti per CeMarket -->

  <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" />
    </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="tyQtyMWh">
    <restriction base="string">
```

```

<!-- 99.999.999 ==> con separatore migliaia solo intero senza decimali con o senza segno -->
<!-- 99999999 ==> senza separatore migliaia solo intero senza decimali con o senza segno -->
<!-- 99.999.999,999 ==> con separatore migliaia con al massimo 3 decimali con o senza segno -->
<!-- 99999999,999 ==> senza separatore migliaia con al massimo 3 decimali con o senza segno -->
<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="tyQtyMWhPos">
  <restriction base="string">
    <!-- 99.999.999 ==> con separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99.999.999,999 ==> con separatore migliaia con al massimo 3 decimali senza segno -->
    <!-- 99999999,999 ==> senza separatore migliaia con al massimo 3 decimali senza segno -->
    <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">
    <!-- -99.999.999|99.999.999 ==> con separatore migliaia solo intero senza decimali con segno - opzionale -->
    <!-- -99999999|99999999 ==> senza separatore migliaia solo intero senza decimali con segno - opzionale -->
    <!-- -99.999.999,999|99.999.999,999 ==> con separatore migliaia con al massimo 3 decimali con segno - opzionale -->
    <!-- -99999999,999|99999999,999 ==> senza separatore migliaia con al massimo 3 decimali con segno - opzionale -->
    <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">
    <!-- 99.999.99 ==> con separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99.999.999,99 ==> con separatore migliaia con al massimo 2 decimali senza segno -->
    <!-- 99999999,99 ==> senza separatore migliaia con al massimo 2 decimali senza segno -->
    <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">
    <!-- 99.999.99 ==> con separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99.999.999,999999 ==> con separatore migliaia con al massimo 6 decimali senza segno -->
    <!-- 99999999,999999 ==> senza separatore migliaia con al massimo 6 decimali senza segno -->
    <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">
    <!-- 99.999.99 ==> con separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99.999.999,99 ==> con separatore migliaia con al massimo 2 decimali senza segno -->
    <!-- 99999999,99 ==> senza separatore migliaia con al massimo 2 decimali senza segno -->
    <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">
    <!-- 99.999.99      ==> con separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno -->
    <!-- 99.999.999,999999 ==> con separatore migliaia con al massimo 6 decimali senza segno -->
    <!-- 99999999,999999 ==> senza separatore migliaia con al massimo 6 decimali senza segno -->
    <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="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="tyTransCommStatus">
  <restriction base="string">
    <!-- nuova sottomissione valida - N -->
    <enumeration value="Sottomessa" />
    <!-- nuova sottomissione invalida - I -->
    <enumeration value="Invalida" />
    <!-- confermata - C -->
    <enumeration value="Accettata" />
    <!-- abbinata - A -->
    <enumeration value="Abbinata" />
    <!-- rifiutata - R -->
    <enumeration value="Rifiutata" />
    <!-- ritirata - X -->
    <enumeration value="Ritirata" />
    <!-- scaduta - S -->
    <enumeration value="Scaduta" />
    <!-- sostituita - T -->
    <enumeration value="Sostituita" />
  </restriction>
</simpleType>
```

```
<simpleType name="tyTransactionType">
  <restriction base="string">
    <enumeration value="TransactionBidSubmittal" />
    <enumeration value="TransactionCeCmd" />
    <enumeration value="TransactionCeFA" />
    <enumeration value="TransactionContiEnergiaDeleghe" />
    <enumeration value="TransactionOperator" />
    <enumeration value="TransactionPCEMargins" />
    <enumeration value="TransactionPCECapGF" />
    <enumeration value="TransactionPCEOpRif" />
    <enumeration value="TransactionPriceDetail" />
    <enumeration value="TransactionPCEBuses" />
    <enumeration value="TransactionPCEEspOp" />
    <enumeration value="TransactionPCEMovimentiGaranzieGME" />
    <enumeration value="TransactionPCEMovimentiContoPagati" />
    <enumeration value="TransactionPCEPrograms" />
    <enumeration value="TransactionPCEsbilPrograms" />
  </restriction>
</simpleType>
```

```
<enumeration value="TransactionSbilProg" />
<enumeration value="TransactionStimeCCT" />
<enumeration value="TransactionIVA" />
<enumeration value="TransactionIVAOp" />
<enumeration value="TransactionPdSR" />
<enumeration value="TransactionTrComm" />
<enumeration value="TransactionTrCommUpdate" />
<enumeration value="TransactionTrNotificaTC" />
<enumeration value="TransactionUnit" />
<enumeration value="TransactionUnitRelate" />
<enumeration value="TransactionUser" />
<enumeration value="TransactionUserRelate" />
<enumeration value="TransactionZone" />
<enumeration value="tyError" />
</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="tyTCItem">
  <attribute name="ContoEnergia" type="pd:tyCodiceContoEnergia" use="required"/>
  <attribute name="OpRifCE" type="pd:tyCodiceOperatore" use="required"/>
  <attribute name="Qty" type="pd:tyQtyMWh" 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>
```

```
</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"/>  
    <!--  
    <enumeration value="PreliminaryProvisional"/>  
    <enumeration value="Preliminary"/>  
    <enumeration value="FirstFinal"/>  
    <enumeration value="SecondFinal"/>  
    <enumeration value="FirstUpdated"/>  
    <enumeration value="SecondUpdated"/>  
    -->  
  </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>
```

```
</schema>
```

3. Transazioni XML Sottomesse dagli Operatori PCE

3.1 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="-2,00" />
        </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="7f5bd6368d3f4b6a9cd8426bddc19e6e"
  >
```

```
<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="-11,78" />
        </ItemPC>
        <ItemPC Data="2007-03-15" Ora="8">
          <TCItem ContoEnergia="CE-IMM-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="-18,90" />
        </ItemPC>
      </ProfiloCustom>
    </TransazioneCommerciale>
  </TrComm>
</PTransaction>
</Message>
```

3.1.1 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" />

  <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>
      </choice>
    </sequence>
  </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>
```

3.2 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="prospenzaabbiinconf">
        <ProfiloStandard Profilo="BSLD" DataInizio="2007-02-24" DataFine="2007-
02-25">
          <TCItem ContoEnergia="CE-PRE-OEYYYYYY"
OpRifCE="OEYYYYYY" Qty="7,00" />
        </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">
      </TransazioneCommerciale_UpdateStatus>
    </TrCommUpdate>
  </PTransaction>
</Message>
```

```
        CodiceMnemonico="c1">
    <ProfiloCustom>
        <ItemPC Data="2007-03-15" Ora="7">
    <TCItem ContoEnergia="CE-PRE-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="11,78" />
        </ItemPC>
        <ItemPC Data="2007-03-15" Ora="8">
    <TCItem ContoEnergia="CE-PRE-OEXXXXXX" OpRifCE="OEXXXXXX" Qty="18,90" />
        </ItemPC>
    </ProfiloCustom>
</TransazioneCommerciale_UpdateStatus>
</TrCommUpdate>
</PTransaction>
</Message>
```

3.2.1 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" />
  <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>
```

3.3 Offerta

```
<?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>
```

3.3.1 CE_BidSubmittal.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="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. Transazioni XML messe a disposizione degli operatori PCE

4.1 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="2007020818585100000000004" />
    </CeFA>
  </Transaction>
</Message>
```

4.1.1 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" />

  <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="IdOfferta" type="pd:tyIdOfferta" use="optional"/>
    <attribute name="Status" type="pd:tyTransactionStatus" use="required"/>
    <attribute name="OriginalReferenceNumber" type="string" use="required"/>
  </complexType>

</schema>
```

4.2 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>OEYYYYYY</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>
```

4.2.1 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>

```

4.3 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="4,400" OrigPriceMWh="10,17"
    QtyBalancedMWh="4,355" MPN="OEXXXXX-00" />
        <Unit URN="UP_XXXX_NORD_B" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="953" QtyMWh="4,400" OrigPriceMWh="10,17"
    QtyBalancedMWh="4,400" 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="4,400" OrigPriceMWh="11,17"
    QtyBalancedMWh="4,400" MPN="OEXXXXX-01" />
        <Unit URN="UP_XXXXXX_1" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="955" QtyMWh="10,031" OrigPriceMWh="10,17"
    QtyBalancedMWh="10,031" MPN="OEXXXXX-01" />
        <Unit URN="UP_YYYY_NORD_B" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="956" QtyMWh="4,400" OrigPriceMWh="10,17"
    QtyBalancedMWh="4,400" 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="7,934" OrigPriceMWh="12,17"
    QtyBalancedMWh="7,653" MPN="OEXXXXX-02" />
        <Unit URN="UP_XXXXX_1" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="958" QtyMWh="9,907" OrigPriceMWh="10,17"
    QtyBalancedMWh="9,907" MPN="OEXXXXX-02" />
        <Unit URN="UP_YXXX_NORD_B" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="959" QtyMWh="1,507" OrigPriceMWh="10,17"
    QtyBalancedMWh="1,507" 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="1,507" OrigPriceMWh="10,17"
    QtyBalancedMWh="1,507" MPN="OEXXXXX-03" />
        <Unit URN="UP_XXX-CVVV_1" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="960" QtyMWh="5,934" OrigPriceMWh="9,27"
    QtyBalancedMWh="5,934" MPN="OEXXXXX-03" />
        <Unit URN="UP_XXXX_1" Type="P" CodeZone="NORD"
    Status="ProgramSent" IdProgrammaXml="3026" IdOfferta="961" QtyMWh="13,907" OrigPriceMWh="10,17"
    QtyBalancedMWh="11,626" MPN="OEXXXXX-03" />
    </PCEProgram>
</PCEPrograms>
</Transaction>
</Message>

```

4.3.1 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" />

```

```
<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>
```

4.4 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="76,342">22,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="2"
QtyMWhPgm="86,342">-22,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="3"
QtyMWhPgm="16,342">0,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="4"
QtyMWhPgm="1,342">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="5"
QtyMWhPgm="3,342">12,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="6"
QtyMWhPgm="13,000">2,371</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="7"
QtyMWhPgm="13,098">2,391</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="8"
QtyMWhPgm="93,342">1,342</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="9"
QtyMWhPgm="103,342">-12,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="10"
QtyMWhPgm="23,342">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="11"
QtyMWhPgm="24,342">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="12"
QtyMWhPgm="26,342">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="13"
QtyMWhPgm="0,000">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="14"
QtyMWhPgm="0,000">-2,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="15"
QtyMWhPgm="1,342">0,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="16"
QtyMWhPgm="123,342">1,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="17"
QtyMWhPgm="99,342">0,000</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="18"
QtyMWhPgm="88,342">0,000</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="19"
QtyMWhPgm="29,342">0,331</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="20"
QtyMWhPgm="16,342">2,100</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="21"
QtyMWhPgm="17,342">12,400</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="22"
QtyMWhPgm="19,342">-2,200</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="23"
QtyMWhPgm="20,342">2,108</PCESbilProgram>
    <PCESbilProgram CE="CE-IMM-OEXXXXX" UdD="OEXXXXX" Date="2007-02-01" Hour="24"
QtyMWhPgm="12,342">2,110</PCESbilProgram>
  </PCESbilPrograms>
</Transaction>
</Message>

```

4.4.1 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" />

  <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>
```

4.5 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_AAAAAAA</UnitReferenceNumber>
      <ReferenceMarketParticipantNumber>OEXXXXX</ReferenceMarketParticipantNumber>
      <Quantity Hour="1" UnitOfMeasure="MWh">12,098</Quantity>
      <Quantity Hour="2" UnitOfMeasure="MWh">11,990</Quantity>
      <Quantity Hour="3" UnitOfMeasure="MWh">13,099</Quantity>
      <Quantity Hour="4" UnitOfMeasure="MWh">13,998</Quantity>
      <Quantity Hour="5" UnitOfMeasure="MWh">11,887</Quantity>
      <Quantity Hour="6" UnitOfMeasure="MWh">14,023</Quantity>
      <Quantity Hour="7" UnitOfMeasure="MWh">16,293</Quantity>
      <Quantity Hour="8" UnitOfMeasure="MWh">35,076</Quantity>
      <Quantity Hour="9" UnitOfMeasure="MWh">40,998</Quantity>
      <Quantity Hour="10" UnitOfMeasure="MWh">42,887</Quantity>
      <Quantity Hour="11" UnitOfMeasure="MWh">39,886</Quantity>
      <Quantity Hour="12" UnitOfMeasure="MWh">46,009</Quantity>
      <Quantity Hour="13" UnitOfMeasure="MWh">42,881</Quantity>
      <Quantity Hour="14" UnitOfMeasure="MWh">44,220</Quantity>
      <Quantity Hour="15" UnitOfMeasure="MWh">42,812</Quantity>
      <Quantity Hour="16" UnitOfMeasure="MWh">40,998</Quantity>
      <Quantity Hour="17" UnitOfMeasure="MWh">42,110</Quantity>
      <Quantity Hour="18" UnitOfMeasure="MWh">42,100</Quantity>
      <Quantity Hour="19" UnitOfMeasure="MWh">44,001</Quantity>
      <Quantity Hour="20" UnitOfMeasure="MWh">50,012</Quantity>
      <Quantity Hour="21" UnitOfMeasure="MWh">49,990</Quantity>
      <Quantity Hour="22" UnitOfMeasure="MWh">23,110</Quantity>
      <Quantity Hour="23" UnitOfMeasure="MWh">19,201</Quantity>
      <Quantity Hour="24" UnitOfMeasure="MWh">17,221</Quantity>
    </PCEBus>
    <PCEBus MarketParticipantNumber="OEXXXXX" Type="Preliminary" Cumulative="No">
      <Market>MGP</Market>
      <Date>2007-02-01</Date>
      <UnitReferenceNumber>UP_BBBBBBB</UnitReferenceNumber>
      <ReferenceMarketParticipantNumber>OEXXXXX</ReferenceMarketParticipantNumber>
      <Quantity Hour="1" UnitOfMeasure="MWh">-6,098</Quantity>
      <Quantity Hour="2" UnitOfMeasure="MWh">-5,990</Quantity>
      <Quantity Hour="3" UnitOfMeasure="MWh">-3,099</Quantity>
      <Quantity Hour="4" UnitOfMeasure="MWh">-7,998</Quantity>
      <Quantity Hour="5" UnitOfMeasure="MWh">-9,887</Quantity>
      <Quantity Hour="6" UnitOfMeasure="MWh">-7,023</Quantity>
      <Quantity Hour="7" UnitOfMeasure="MWh">16,293</Quantity>
      <Quantity Hour="8" UnitOfMeasure="MWh">35,076</Quantity>
      <Quantity Hour="9" UnitOfMeasure="MWh">40,998</Quantity>
      <Quantity Hour="10" UnitOfMeasure="MWh">42,887</Quantity>
      <Quantity Hour="11" UnitOfMeasure="MWh">39,886</Quantity>
      <Quantity Hour="12" UnitOfMeasure="MWh">46,009</Quantity>
      <Quantity Hour="13" UnitOfMeasure="MWh">42,881</Quantity>
      <Quantity Hour="14" UnitOfMeasure="MWh">44,220</Quantity>
      <Quantity Hour="15" UnitOfMeasure="MWh">42,812</Quantity>
      <Quantity Hour="16" UnitOfMeasure="MWh">40,998</Quantity>
      <Quantity Hour="17" UnitOfMeasure="MWh">42,110</Quantity>
      <Quantity Hour="18" UnitOfMeasure="MWh">42,100</Quantity>
      <Quantity Hour="19" UnitOfMeasure="MWh">44,001</Quantity>
      <Quantity Hour="20" UnitOfMeasure="MWh">50,012</Quantity>
      <Quantity Hour="21" UnitOfMeasure="MWh">49,990</Quantity>
    </PCEBus>
  </Transaction>
</Transaction>
```

```
<Quantity Hour="22" UnitOfMeasure="MWh">23,110</Quantity>
<Quantity Hour="23" UnitOfMeasure="MWh">19,201</Quantity>
<Quantity Hour="24" UnitOfMeasure="MWh">17,221</Quantity>
</PCEBus>
</PCEBuses>
</Transaction>
</Message>
```

4.5.1 Ce_BUS.xsd

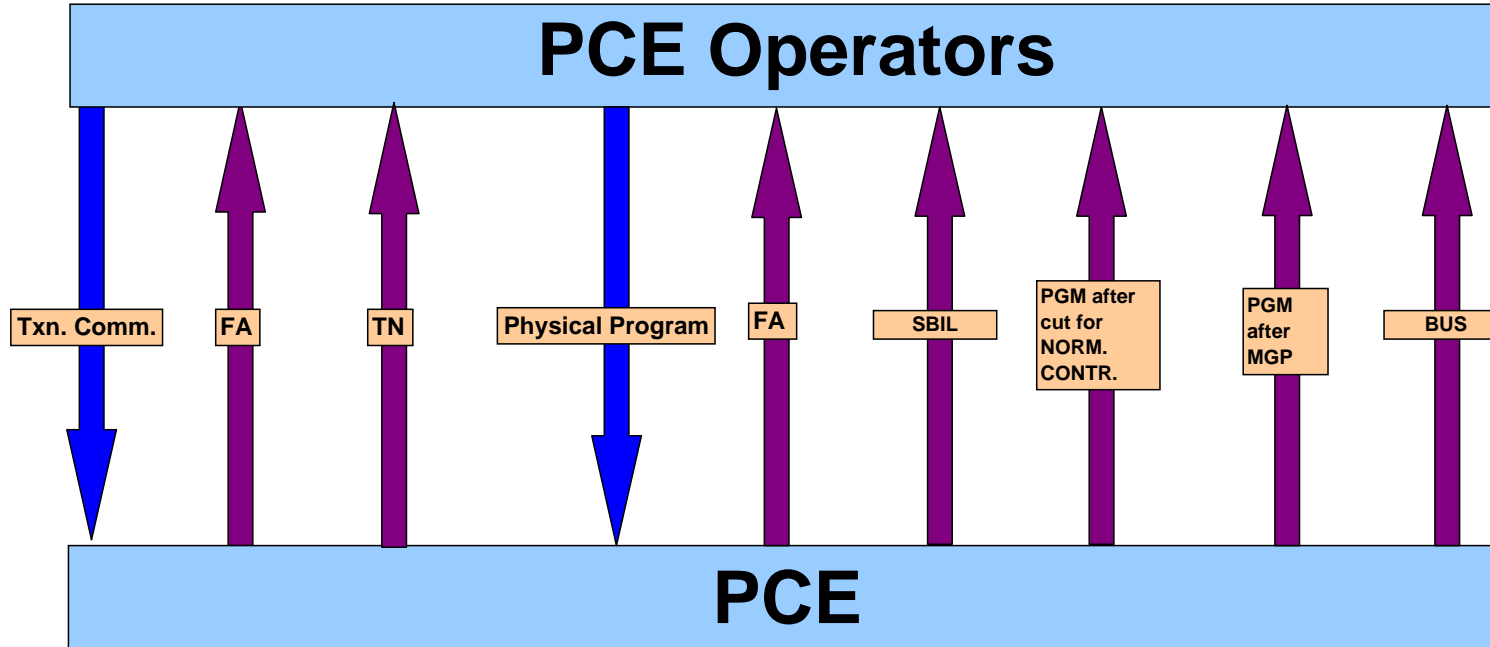
```
<?xml version="1.0" encoding="utf-8" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-PCE"
  xmlns:pd="urn:XML-PCE"
  elementFormDefault="qualified">

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

  <complexType name="tyPCEBus">
    <sequence>
      <element name = "Market" type = "pd:marketType"/>
      <element name = "Date" type = "date"/>
      <element name = "UnitReferenceNumber" type = "pd:tyCodiceUnitita"/>
      <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		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		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			1/1			
TransazioneCommerciale		(see TransazioneCommerciale structure)					
TransazioneCommerciale							
	E			1/1		choice with ProfiloCustom	
ProfiloStandard	E	(see ProfiloStandard structure)		1/1		choice with ProfiloStandard	
ProfiloCustom		(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	BSDL,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	
OpRiICE	A		A/N	1/1	max=32	Reference Operator	
Qty	A	Valid italian-localized decimal value.		99999,999	1/1	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
Message Type	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	0/1		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
TrCommUpdate	E	(see TrCommUpdate structure)		1/1		
TrCommUpdate						
TrCommUpdate	E	(see TransazioneCommerciale structure)		1/1		
TransazioneCommerciale_UpdateStatus						
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 the 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 different UdD
Profilo	A	BSLD PEAK,OPPK,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 the standard profile
ProfiloCustom						
ItemPC	E	(see ItemPC structure)				
ItemPC						
TCItem	E	(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
OpRIICE	A		A/N	1/1	max=32	Reference Operator
Qty	A	Valid italian-localized decimal value.	A/N	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 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						
	E	Valid italian-localized decimal value.	Decimal=9999,999	1/1		Quantity of theOffer
Date	A	Valid Date	YYYY-MM-DD	1/1		Flow Date of the offer
Hour	A	number [1-25]	N	1/1		Period 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	Decimal=9999,99	1/1		Price of the Offer
RI	A		A/N	1/1		Replacement Indicator (Yes/No)

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	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	Request	A/N	1/1	max=12	Message identifier
MessageType	A	Valid Date	YYYY-MM-DD	1/1		Message Type
MessageDate	A		YYYY-MM-DD	1/1		Date of the message
MessageTime	A			1/1		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	1/1		Identifies the version of the CelMessageSchema
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)
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
PCEProgram	E			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
UsID	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			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	number [1-25] Enumeration value among: ProgramAccepted, ProgramRefused, ProgramNotSent.	N ProgramAccepted ProgramRefused ProgramNotSent ProgramReplaced ProgramIPEXRefused	1/1		Status of the PCE Program (ProgramAccepted, ProgramRefused, ProgramNotSent)
Unit						
URN	A	Valid Unit Reference Number in GRN 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		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
Status	A		ProgramAccepted ProgramRefused ProgramNotSent ProgramReplaced ProgramIPEXRefused	1/1	max=15	Status of the PCE program for the specific Unit (ProgramAccepted, ProgramRefused, ProgramNotSent)
IdProgrammaXML	A		N	1/1	int	Identifier of the original message submitted by the PCE Operator containing the original PCE program.
IdOfferta	A		A/N	1/1	max=32	GMEUnique identifier assigned to the physical program
QtyMWh	A	A valid italian localized number	Decimal=9999,999	1/1	max=9	Corresponds to the original Quantity submitted by the PCE Operator in his programs
OrigPriceMWh	A	A valid italian localized number	Decimal=9999,999	1/1	max=6	Corresponds to the original Price submitted by the PCE Operator in his programs (zero if no price)
QtyBalancedMWh	A	A valid italian localized number	Decimal=9999,999	0/1	max=9	Corrpsnds to the quantity decided by the PCE system after the cut for force balancing
QtyMGPMWh	A	A valid italian localized number	Decimal=9999,999	0/1	max=9	Corresponds to the quantity accepted by the GME system after the execution of MGP
PriceMWh	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.
MPN	A		A/N	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, Bf 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	1/1		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		N/A	N/A		N/A	
FunctionalAcknowledgement	E	(see FunctionalAcknowledgement structure)		1/1		Contains tags that define the positive or negative acknowledgement of receipt of the original transaction.
FunctionalAcknowledgement		N/A	N/A		N/A	
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
IdOfIerta	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 PIPEFunctionalAcknowledgement	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						
xmlns:xsd	A	N/A	N/A	1 for file	N/A	Associates the actual schema instance being used to the name space.
xmlns:xs	A		AN	1/1		Defines the schema instance being used.
xmlns	A		AN	1/1		Uniquely identifies the XML name space.
MessageCode	A		AN	1/1	max=12	Message identifier
MessageCodeType	A	Request	AN	1/1		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		AN	0/1		Identifies the type of the transaction inside the message
Version	E	1.0.1.0	AN	1/1		Identifies the version of the CeMessageSchema
Header	E	(see Header data structure)		1/1		Sender and recipient of the message
Transaction	E	(see Transaction data 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		AN	1/1	max=16	The unique identifier of the Sender
CompanyName	E		AN	0/1	max=60	The Name of the Sender
UserMsgCode	E		AN	0/1	max=16	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	(IDGMEPCE)	AN	1/1	max=16	The unique identifier of the Receiver
CompanyName	E		AN	0/1	max=60	The Name of the Receiver
UserMsgCode	E		AN	0/1	max=16	The unique identifier for the user who receives
Transaction						
TransactionCode	A		AN	1/1	max=32	unique identifier of the transaction
ApplicationData	A		A	0/1		application specific data (not used)
MPN	A		AN	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	E	(see ProfiloCustom structure)		0/1		
Tipologia	A	Sottomessa, Rivista, Abbinata		1/1		
IDTransazione	A		N	1/1		The unique identifier of the transaction
OperatoreProponente	A		AN	1/1	max=16	The unique identifier of the submitter
DataScambioStato	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, OFFPK, WEND		1/1		Identifier of the standard profile
ProfiloCustom						
TCAggregatoGiornaliero	E	(see TCAggregatoGiornaliero structure)		1 or more		
ApplicationData	A		A	0/1		application specific data (not used)
TCAggregatoGiornaliero						
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-24]	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		
Tipologia	A	Accettata, Rivista, Abbinata		1/1		
IDTransazione	A		N	1/1		The unique identifier of the transaction
CodiceMnemonicoProponente	A		AN	0/1	max=32	mnemonic code inserte by the submitter
OperatoreControparte	A		AN	1/1	max=16	The unique identifier of the counterparty
DataScambioStato	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, OFFPK, WEND		1/1		Identifier of the standard profile
ProfiloCustom						
ItemPC	E	(see ItemPC structure)		1 or more		
ApplicationData	A		A	0/1		application specific data (not used)
ItemPC						
TCItem	A	(see TCItem structure)		1 or more		
Data	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora	A	number [1-24]	N	1/1		period of the flow date
Profilo	A	BSLD, PEAK, OFFPK, WEND		1/1		Identifier of the standard profile
TCItem						
ContoEnergia	A		AN	1/1	max=16	Energy account identifier
Operatore	A		AN	1/1	max=32	Reference Operator
Qty	A	Valid Italian-localized decimal value	99999.999	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		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		
PCESbilPrograms		N/A	N/A	01-gen	N/A	Define the physical position of an UdD (subcount)
PCESbilProgram	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	
	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=99999,999	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=99999,999	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