Progetto: **PCE**

(Project)

Sotto Progetto:

(Sub-Project)

Componente:

(Component)

PCE Implementation Guide

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CONTENTS

1. Introduction

The PCE Application interacts with the various players by using specific transactions.
This document describes the transactions that the Application supports in order to exchange input and output data with PCE Participants.

1.1 Scope

This document contains the Excel file describing the XML data exchange transactions that the PCE Application supports.

2. Formats of schemas

This Implementation Guide presents the XSD schemas for each type of transaction, replicating the common part.
By appropriately using the "include" option, the user may obtain the *CeMessage.xsd* schema; this schema recalls the specific xsd schemas which are associated with each transaction involved in the Application.
Consequently, the examples given in the following Chapters show the xsd schema of each transaction and a complete example of an XML file, ready to be forwarded to the platform.

2.1 Ce_Message.xsd

```xml
<?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
<?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
<?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
<?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" />
```

```xml
    </restriction>
  </simpleType>

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

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

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

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

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

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

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

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

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

```
    </restriction>
  </simpleType>

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

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

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

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

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

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

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

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

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

```
    </restriction>
  </simpleType>

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

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

  <simpleType name="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>

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

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

```xml
        <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
<?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>
```

(with thousands separator - only integer - without decimals - with or without sign
without thousands separator – only integer – without decimals – with or without sign
with thousands separator – with a maximum of 3 decimals – with or without sign
without thousands separator – with a maximum of 3 decimals – with or without sign)

```
<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>
```

(with thousands separator - only integer - without decimals - without sign
without thousands separator – only integer – without decimals – without sign
with thousands separator – with a maximum of 3 decimals – without sign
without thousands separator – with a maximum of 3 decimals – without sign)

```
<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>
```

(with thousands separator - only integer - without decimals - with sign – optional
without thousands separator – only integer – without decimals – with sign – optional
with thousands separator – with a maximum of 3 decimals – with sign – optional
without thousands separator – with a maximum of 3 decimals – with sign - optional)

```
<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>
```

(with thousands separator – only integer – without decimals – without sign
without thousands separator – only integer – without decimals – without sign
with thousands separator – with a maximum of 2 decimals – without sign
without thousands separator – with a maximum of 2 decimals – without sign)

```xml
<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>
```

(with thousands separator – only integer – without decimals – without sign)
without thousands separator – only integer – without decimals – without sign
with thousands separator – with a maximum of 6 decimals – without sign
without thousands separator – with a maximum of 6 decimals – without sign)

```xml
<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>
```

(with thousands separator – only integer – without decimals – without sign)
without thousands separator – only integer – without decimals – without sign
with thousands separator – with a maximum of 2 decimals – without sign
without thousands separator – with a maximum of 2 decimals – without sign)

```xml
<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>
```

(with thousands separator – only integer – without decimals – without sign)
without thousands separator – only integer – without decimals – without sign
with thousands separator – with a maximum of 6 decimals – without sign
without thousands separator – with a maximum of 6 decimals – without sign)

```xml
<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">
```

```xml
      <!-- 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" />
      <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>

  <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. XML Transactions Submitted by PCE Participants

3.1 Commercial Transactions (Proposal)

Profilo standard:
(Standard Profile)

```xml
<?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
<?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>
      <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 Update of Commercial Transaction

Profilo standard:
(Standard Profile)

```xml
<?xml version="1.0"?>
<Message                               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"  MessageCode="017ada11939a49a6a83cc175628bc7ee"
MessageDate="2007-02-09" xmlns="urn:XML-PCE">
        <Version>1.0.1.0</Version>
        <Header>
                <Sender>
                        <OperatorMsgCode>OEYYYYYY</OperatorMsgCode>
                        <UserMsgCode>xman</UserMsgCode>
                </Sender>
                <Receiver>
                        <OperatorMsgCode>IDGMEPCE</OperatorMsgCode>
                        <UserMsgCode>None</UserMsgCode>
                </Receiver>
        </Header>
    <PTransaction MPN="prova1">
                <TrCommUpdate>
                        <TransazioneCommerciale_UpdateStatus  IdTransazione="592"  Stato="Accettata"
Operatore="OEYYYYYY" Utente="xman" CodiceAbbinamento="propsenzaabbiinconf">
                                <ProfiloStandard Profilo="BSLD" DataInizio="2007-02-24" DataFine="2007-
02-25">
                                        <TCItem                        ContoEnergia="CE-PRE-OEYYYYYY"
OpRifCE="OEYYYYYY" Qty="7,00" />
                                </ProfiloStandard>
                        </TransazioneCommerciale_UpdateStatus>
                </TrCommUpdate>
        </PTransaction>
</Message>
```

Profilo custom:
(Custom Profile)

```xml
<?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"
                    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
<?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 Offer/Bid

```xml
<?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
<?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. XML Transactions available to PCE Participants

4.1 Functional Acknowledgement

```xml
<?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="20070208185851000000000004" />
                </CeFA>
        </Transaction>
</Message>
```

4.1.1 Ce_FunctionalAcknowledgement.xsd

```xml
<?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)

Example of TN after Proposal

```
<?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>
```

Example of TN after Confirmation

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

Example of TN after Rejection

```
<?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>
```

Example of TN after Withdrawal

```
<?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>
```

Example of TN after Symmetrical Matching

```
<?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
<?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_AXX-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:tyPGMPriceMWh" use="required"/>
    <attribute name="QtyBalancedMWh" type="pd:tyQtyMWh" use="optional"/>
    <attribute name="QtyMGPMWh" type="pd:tyQtyMWh" use="optional"/>
    <attribute name="PriceMWh" type="pd:tyPGMPriceMWh" 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
<?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
<?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" Cummulative="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" Cummulative="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>
          <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:tyCodiceUnita"/>
    <element name = "ReferenceMarketParticipantNumber" type = "pd:tyCodiceOperatore"/>
    <element name = "UnbalancedMarketParticipantNumber" type = "pd:tyCodiceOperatore"
minOccurs="0" maxOccurs="1"/>
    <element name = "Quantity" minOccurs="1" maxOccurs="25">
     <complexType>
      <simpleContent>
       <extension base = "pd:tyQtyMWh">
        <attribute name = "Hour" type = "int" use="required"/>
        <attribute name = "UnitOfMeasure" type = "pd:tyUnitOfMeasure" use="required"/>
       </extension>
      </simpleContent>
     </complexType>
    </element>
   </sequence>
   <attribute name = "MarketParticipantNumber" type = "pd:tyCodiceOperatore"  use="required"/>
   <attribute name = "Type" type = "pd:unitScheduleType" use="required"/>
   <attribute name = "Cummulative" type = "pd:yesNoType" use="required"/>
```
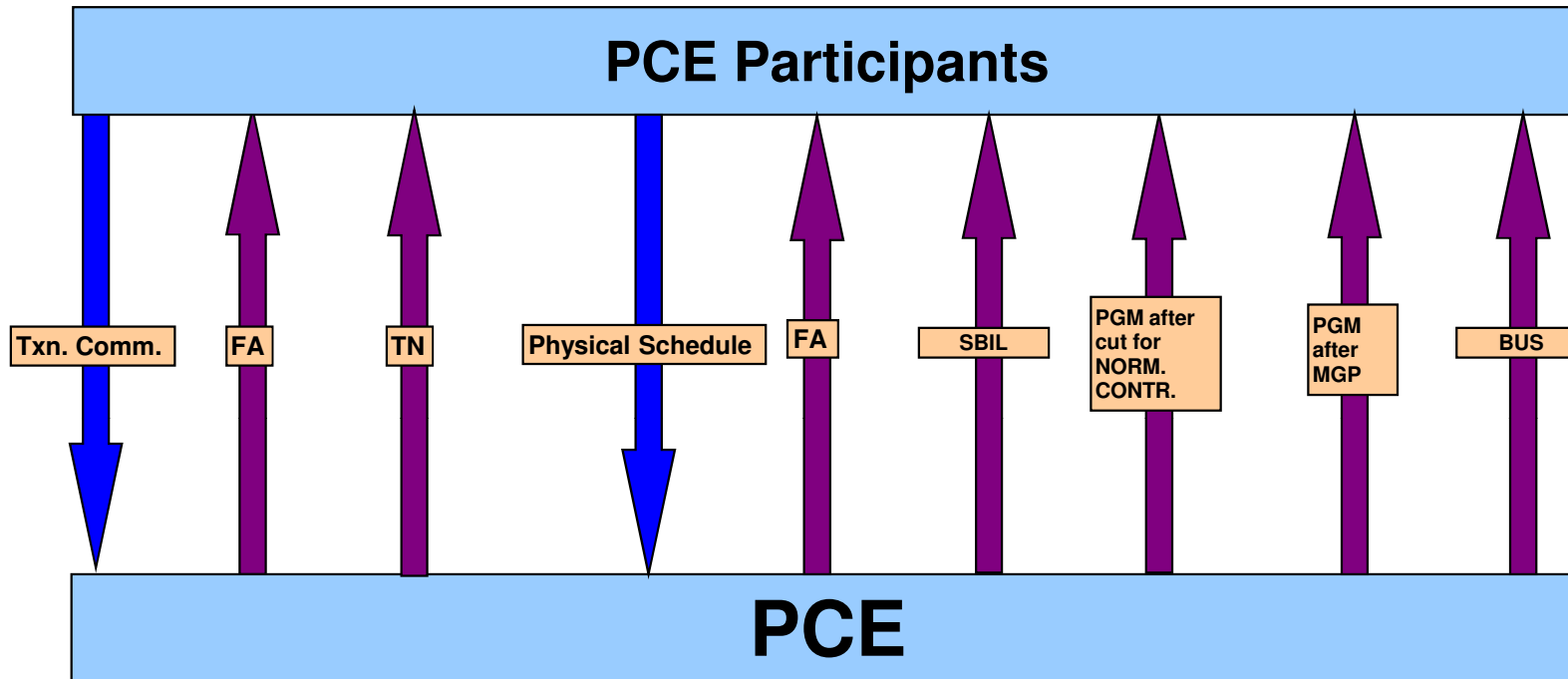
```
  </complexType>

</schema>
```

Commercial Transaction - Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurences 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 with 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					Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1			Date of message
MessageTime	A				0/1		Time of message
MessageSubject	A			A/N	0/1		Identifies the type of 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					1/1		
OperatorMsgCode	E			A/N		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					1/1		
OperatorMsgCode	E	(IDGMEPCE)		A/N		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 Participant
TrComm	E	(see TrComm structure)			1/1		
TrComm							
TransazioneCommerciale (Commercial Transaction)	E	(see TransazioneCommerciale structure)			1/1		
TransazioneCommerciale (Commercial Transaction)							
ProfiloStandard (Standard Profile)	E	(see ProfiloStandard structure)			1 /1		choice with ProfiloCustom
ProfiloCustom (Custom Profile)	E	(see ProfiloCustom structure)			1/1		choice with ProfiloStandard
CodiceAbbinamento (Matching Code)	A			A/N	1/1	max=32	code inserted by the submitter used by the counterparty in acceptance
CodiceMnemonico (Mnemonic Code)	A			A/N	0/1	max=32	mnemonic code inserted by the submitter
OperatoreProponente (Proposing Participant)	A			A/N	1/1	max=16	The unique identifier of the submitter
OperatoreControparte (Counterparty Participant)	A			A/N	1/1	max=16	The unique identifier of the counterparty
DataScadenzaRichiesta (Request Expiration Date)	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
ProfiloStandard (Standard Profile)	E						
TCItem		(see TCItem structure)			1 or more		distribution of the energy quantity among different Dispatching Users
Profilo (Profile)	A	BSLD,PEAK,OFPK,WEND			1/1		Identifier of the standard profile
DataInizio (Start Date)	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine (End Date)	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
ProfiloCustom (Custom Profile)	E						
ItemPC	E	(see ItemPC structure)			1 or more		
ItemPC	E						
TCItem	A	(see TCItem structure)			1 or more		
Data (Date)	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora (Hour)	A	number [1-25]	N	1/1		period of the flow date
TCItem	E						
ContoEnergia (Forward Electricity Account)	A			A/N	1/1	max=16	Energy Account identifier
OpRifCE	A			A/N	1/1	max=32	Reference Participant
Qty	A	Valid Italian localised decimal value.	99999,999	1/1	max=9	Energy Quantity

Update of Commercial Transaction - Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurences 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of message
MessageSubject	A		A/N	0/1		identifies the type of 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 Participant
TrCommUpdate	E	(see TrCommUpdate structure)		1/1		
TrCommUpdate						
TransazioneCommerciale_UpdateStatus	E	(see TransazioneCommerciale structure)		1/1		
TransazioneCommerciale_UpdateStatus						
ProfiloStandard (Standard Profile)	E	(see ProfiloStandard structure)		0/1		choice with ProfiloCustom: if Stato="Rifiutata" or "Ritirata" the field is not present (if status = rejected or withdrawn)
ProfiloCustom (Custom Profile)	E	(see ProfiloCustom structure)		0/1		choice with ProfiloStandard: if Stato="Rifiutata" or "Ritirata" the field is not present (if status = rejected or withdrawn)
IdTransazione (Transaction Id)	A	number		1/1	max=32	Identifier assigned by the system to the original proposal
Stato (Status)	A		A/N	1/1		Type of Update (Accettata,Rifiutata,Ritirata) (accepted, rejected, withdrawn)
Operatore (Participant)	A		A/N	1/1	max=16	The unique identifier of the counterparty
Utente (User)	A		A/N	0/1	max=16	The unique identifier of the user representing the counterparty
CodiceAbbinamento (Matching Code)	A		A/N	0/1	max=32	code inserted by the submitter used by the counterparty in acceptance
CodiceMnemonico (Mnemonic Code)	A		A/N	0/1	max=32	mnemonic code used by the Counterparty
ProfiloStandard (Standard Profile)	E					
TCItem		(see TCItem structure)		1 or more		distribution of the energy quantity among different Dispatching Users
Profilo (Profile)	A	BSLD,PEAK,OFPK,WEND		1/1		Identifier of the standard profile
DataInizio (Start Dat)	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine (End Date)	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
ProfiloCustom (Custom Profile)	E					
ItemPC	E	(see ItemPC structure)				
ItemPC	E					
TCItem	A	(see TCItem structure)		1 or more		
Data (Date)	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora (Hour)	A	number [1-25]	N	1/1		period of the flow date
TCItem	E					
ContoEnergia (Forward Electricity Account)	A		A/N	1/1	max=16	Energy Account identifier
OpRifCE	A		A/N	1/1	max=32	Reference Participant
Qty	A	Valid italian-localized decimal value.	A/N	1/1	max=9	Energy Quantity

Physical Scheduling - Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurences 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of 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				1/1		
OperatorMsgCode	E		A/N		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				1/1		
OperatorMsgCode	E	(IDGMEPCE)	A/N		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 Participant
BidSubmittal	E	(see BidSubmittal structure)		1/1		
BidSumittal						
QtyMWh	E	(see QtyMWh structure)		1 /1		
QtyMWh	E	Valid Italian localised decimal value.	Decimal=9999,999	1/1		Quantity of the Offer/Bid
Date	A	Valid Date	YYYY-MM-DD	1/1		Flow Date of the offer/bid
Hour	A	number [1-25]	N	1/1		Period of the offer/bid
CET	A		A/N	1/1	max=16	Energy Account identifier
URN	A		A/N	1/1	max=16	Alphanumeric code identifying the consuming or generating unit
UOM	A	MWh	A/N	0/1		Unit of measure
PRI	A	Valid Italian localised decimal	Decimal=9999,99	1/1		Price of the Offer/Bid
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	Occurences 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of message
MessageSubject	A		A/N	0/1		identifies the type of 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				1/1		
OperatorMsgCode	E	(IDGMEPCE)	A/N		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				1/1		
OperatorMsgCode	E		A/N		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 specifc data (not used)
PCEPrograms	E	(see PCEPrograms structure)		1/1		
PCEPrograms (PCE Schedules)	E	N/A	N/A	1/1	N/A	Define the set of all PCE schedules of this type
PCEProgram	E			1 or more		
PCEProgram (PCE Schedule)				1 or more		Defines the Bilateral Schedule for this transaction
Unit	E	(see Unit structure)				
CE (Forward Electricity Account)	A		A/N	1/1		Energy Account identifier
UdD (Dispatching User)	A		A/N	1/1		Reference Participant
Date	A	Valid date	YYYY-MM-DD (xs:date)	1/1	max=10	Date of Energy Flow
Hour				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)
	A	number [1-25]	N			
Status	A	Enumeration value among: ProgramAccepted. ProgramRefused. ProgramNotSent.	ProgramAccepted | ProgramRefused | ProgramNotSent | ProgramReplaced | ProgramIPEXRefused	1/1		Status of the PCE Schedule (ProgramAccepted, ProgramRefused, ProgramNotSent)
Unit						
URN	A	Valid Unit Reference Number in TERNA's Unit Register	A/N	1/1	max=16	Alphanumeric code identifying the consuming or generating unit
Type	A	Enumeration value among: P (Production) C (Consumption) M (Mixed)	P,C or M	1/1	max=1	Indicates the type of unit ; P generating, C consuming, 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 schedule for the specific Unit (ProgramAccepted, ProgramRefused, ProgramNotSent)
IdProgrammaXML	A		N	1/1	int	Identifier of the original message submitted by the PCE Participant containing the original PCE schedule.
IdOfferta (Offer/Bid Id)	A		A/N	1/1	max=32	GME unique identifier assigned to the physical program
QtyMWh	A	A valid Italian localised number	Decimal=99999,999	1/1	max=9	Corresponds to the original Quantity submitted by the PCE Participant in his schedules
OrigPriceMWh	A	A valid Italian localised number	Decimal=999,99	1/1	max=6	Corresponds to the original Price submitted by the PCE Participant in his schedules (zero if no price)
QtyBalancedMWh	A	A valid Italian localised number	Decimal=99999,999	0/1	max=9	Corrisponds to the quantity decided by the PCE system after the cut for force balancing
QtyMGPMWh	A	A valid Italian localised number	Decimal=99999,999	0/1	max=9	Corresponds to the quantity accepted by the GME system after the execution of MGP
PriceMWh	A	A valid Italian localised number	Decimal=9999,999999	0/1	max=11	Corresponds to the price (per MWh) decided by GME after the execution of MGP.
MPN	A			0/1	max=32	unique identifier for the transaction assigned by the PCE Participant in his original Physical schedule
ErrorOrigin	A	BN, FA, CE	A/N	0/1	max=2	FA means an error of the corresponding offer/bid before GME MGP Market runs, BN means an error of the corresponding offer/bid after GME MGP Market runs, CE means an error on the consistency check error.
ErrorCode	A	A code for the error	A/N	0/1	max=6	A code associated with the above error
ErrorText	A	A description of the error	A/N	0/1	max=150	A description associated with the above error

CeFunctionalAcknowledgement Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of message
MessageSubject	A		A/N	0/1		identifies the type of 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				1/1		
OperatorMsgCode	E	(IDGMEPCE)	A/N		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				1/1		
OperatorMsgCode	E		A/N		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 Participant
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 orignal 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, it 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 transactions 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 is present when the TransactionType is TrComm
IdOfferta (Offer/Bid Id)	A		A/N	0/1	max=32	GMEunique identifier assigned to the physical schedule (only for FA referred to physical schedule)
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	Occurences Min/Max	Field Length	Definition
Message			N/A	N/A	N/A	
xmlns:xsd	A		A/N	1 for file		Associates the actual schema instance being used with the name space.
xmlns:xsi	A		A/N	1/1		Defines the schema instance being used.
xmlns				1/1		Uniquely identifies the XML name space.
MessageCode	A		A/N	1/1	max=12	Message identifier
MessageType	A	Request		1/1		Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of message
MessageSubject	A		A/N			Identifies the type of 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
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 Participant
TransactionDetail	E	(see CeFA structure)		1/1		
TransactionDetail						
NotificaControparte (Counterparty's Notification)	E	(see NotificaControparte structure)		1/1		choice with NotificaProponente
NotificaProponente (Proposing Participant's Notification)	E	(see NotificaProponente structure)		1/1		choice with NotificaControparte
NotificaControparte (Counterparty's No	E					
ProfiloStandard (Standard Profile)	E	(see ProfiloStandard structure)		0/1		
ProfiloCustom (Custom Profile)	E	(see ProfiloCustom structure)		0/1		
TipoNotifica (Type of Notification)	A	Sottomessa,Ritirata,Abbinata (Submitted, Withdrawn, Matched)		1/1		
IdTransazione (Transaction Id)	A		N	1/1		The unique identifier of the transaction
OperatoreProponente (Proposing Participant)	A		A/N	1/1	max=16	The unique identifier of the submitter
DataCambioStato (Status Change Date)	A	Valid Date	YYYY-MM-DD	1/1		The date of the last change status of the proposal
DataInizio (Start Date)	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine (End Date)	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
DataScadenzaRichiesta (Request Expiration Date)	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
DataSottomissione (Submission Date)	A			1/1		Submission date of the proposal
IdMessaggio (Message Id)	A			1/1		The Original identifier of the transaction that generated the proposal
ProfiloStandard (Standard Profile)	E					
Qty	A	Valid Italian localised decimal value.	99999,999	1/1	max=9	Energy Quantity of the standard profile
Profilo (Profile)	A	BSLD,PEAK,OFPK,WEND		1/1		Identifier of the standard profile
ProfiloCustom (Custom Profile)	E					
TCAggregatoGiornaliero (Daily Aggregate)	E	(seeTCAggregatoGiornaliero structure)		1 or more		
ApplicationData	A		A	0/1	string	application specific data (not used)
TCAggregatoGiornaliero (Daily Aggregate)						
Data (Date)	A	Valid Date	YYYY-MM-DD	1/1		Flow Data
Ora (Hour)	A	number [1-25]	N	1/1		period of the flow date
Qty	A	Valid Italian localised decimal value.	99999,999	1/1	max=9	Energy Quantity
NotificaProponente (Proposing Participant's Notification)						
ProfiloStandard (Standar Profile)	E	(see ProfiloStandard structure)		0/1		
ProfiloCustom (Custom Profile)	E	(see ProfiloCustom structure)		0/1		
TipoNotifica (Type of Notification)	A	Accettata, Rifiutata, Abbinata		1/1		
IdTransazione (Transaction Id)	A		N	1/1		The unique identifier of the transaction
CodiceMnemonicoProponente (Proposing	A		A/N	0/1	max=32	mnemonic code inserted by the submitter
OperatoreControparte (Counterparty Participant)	A		A/N	1/1	max=16	The unique identifier of the counterparty
DataCambioStato (Status Change Date)	A	Valid Date	YYYY-MM-DD	1/1		The date of the last change status of the proposal
DataInizio (Start Date)	A	Valid Date	YYYY-MM-DD	1/1		start date of the standard profile
DataFine (End Date)	A	Valid Date	YYYY-MM-DD	1/1		end date of the standard profile
DataScadenzaRichiesta (Request Expiration Date)	A	Valid Date	YYYY-MM-DD	1/1		Expiration date of the proposal
DataSottomissione (Submission Date)	A			1/1		Submission date of the proposal
IdMessaggio (Message Id)	A			1/1		The original identifier of the transaction that generated the proposal
ProfiloStandard (Standard Profile)	E					
TCItem	E	(see TCItem structure)		1 or more		
Profilo (Profile)	A	BSLD,PEAK,OFPK,WEND		1/1		Identifier of the standard profile
ProfiloCustom (Custom Profile)	E					
ItemPC	E	(see ItemPC structure)		1 or more		
ApplicationData						
ItemPC	E					
TCItem	A	(see TCItem structure)				1 or more
Data (Date)	A	Valid Date	YYYY-MM-DD			Flow Data
Ora (Hour)	A	number [1-25]	N			period of the flow date
Profilo (Profile)	A	BSLD,PEAK,OFPK,WEND		1/1		Identifier of the standard profile
TCItem	E					
Contolenergia (Forward Electricity Account)	A		A/N	1/1	max=16	Energy Account identifier
OpRICE	A		A/N	1/1	max=32	Reference Market Participant+G241
Qty	A	Valid Italian localised 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	Occurences 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of message
MessageSubject	A		A/N	0/1		identifies the type of 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 a Dispatching User (subcount)
PCESbilProgram	E	(see PCE PCESbilProgram structure)	N/A	1 or more		
PCESbilProgram	E	Valid Italian localised decimal value.	Decimal=99999,999	1 or more	max=9	Define the physical difference between the net position and the qty scheduled until the time of generation of the SBIL file of a particular period of a Dispatching User (subcount)
CE (Forward Electricity Account)	A	A	A/N	1/1	max=16	Energy Account identifier
	A	A		1/1		
UdD (Dispatching User)			A/N		max=32	Reference Participant
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 localised decimal value.	Decimal=99999,999	1/1	max=9	Quantity scheduled by the Participant until the time of the SBIL generation.

SBIL Implementation Guide for PCE

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurences 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 with 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				Messag Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1		Date of message
MessageTime	A			0/1		Time of 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				1/1		
OperatorMsgCode	E	(IDGMEPCE)	A/N		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				1/1		
OperatorMsgCode	E		A/N		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 a Dipatching User (subcount)
PCEBus	E	(see PCE PCESbilProgram structure)	N/A	1 or more		
PCEBus	E					
MarketParticipantNumber	A	A Valid Market Partipant 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)
Cumulative	A	always No	A/N	1/1	max=3	The indication if the unit schedule is cumulative 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 consuming or generating unit
ReferenceMarketParticipantNumber	E	Valid ID of a Market Participant	A/N	1/1	max=60	The unique identifier for the PCE Participant (as recorded in TERNA's Register) who is the Reference Participant for the Unit
Quantity	E	Valid Italian localised 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