SOMMARIO

INTRODUZIONE

SCOPO DEL DOCUMENTO

L'Applicazione PBS-GAS mette a disposizione per il download e l'upload diverse informazioni mediante files in formato xml; questo documento descrive le transazioni, in termini di formati, utilizzate all'interno di tali files.

APPLICABILITÀ

Questo documento contiene il file Excel che descrive le transazioni XML di scambio dati supportate dall'Applicazione PBS-GAS.

FORMATO DEGLI SCHEMI

All'interno della di questa Implementation Guide vengono presentati gli XSD distinti per ogni tipo transazione.

Utilizzando opportunamente l'istruzione "include" è possibile ottenere lo schema *GMMessage (nello schema contenitore GMBaseMessage)* che

richiama gli xsd specifici di ogni transazione coinvolta nell'applicazione.

Di conseguenza gi esempi indicati nei capitoli successivi mostrano l'xsd della singola transazione e un esempio completo di file.

GMBASEMESSAGE.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
```

```xml
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM"
        elementFormDefault="qualified">
    <include schemaLocation="BaseMessageTypes.xsd" />
    <element name="Message">
            <complexType>
                    <sequence>
                            <element ref="pd:tyVersion"  minOccurs="0" maxOccurs="1"/>
                            <element name="Header" type="pd:tyHeader" minOccurs="1" maxOccurs="1" />
                            <choice>
                                    <element ref="pd:Transaction" minOccurs="1" maxOccurs="unbounded"/>
                                    <element name="Error" type="pd:tyError" minOccurs="1" maxOccurs="unbounded" />
                            </choice>
                    </sequence>
                    <attribute name="MessageCode" type="int" use="optional" />
                    <attribute name="MessageType" type="pd:tyMessageType" use="optional" />
                    <attribute name="MessageDate" type="date" use="required" />
                    <attribute name="MessageTime" type="time" use="optional" />
                    <!-- Response -->
                    <attribute name="ResponseReferenceMessageCode" type="int" 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" />
</choice>
                    <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="int" use="optional" />
<attribute name="ReferenceTransactionCode" type="int" use="optional" />
            </complexType>
    </element>
    <element name="tyVersion" abstract="true" type="string" />
</schema>
```

GMMESSAGE.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM"
        xmlns:pd="urn:XML-GM"
        xmlns:NameSpace1="http://www.w3.org/2001/XMLSchema"
```

```xml
        elementFormDefault="qualified">
    <include schemaLocation="Parameters.xsd" />
    <include schemaLocation="GMBaseMessage.xsd" />
    <include schemaLocation="GMMarketPlayer.xsd" />
    <include schemaLocation="FunctionalAcknowledgement.xsd" />
    <include schemaLocation="GMUsers.xsd" />
    <include schemaLocation="GMUserInformations.xsd" />
    <include schemaLocation="GMOffer.xsd"       />
    <include schemaLocation="GMSessions.xsd"  />
    <include schemaLocation="GMOfferChangeStatus.xsd"    />
    <include schemaLocation="GMMarketPlayerInformations.xsd" />
    <include schemaLocation="GMProducts.xsd" />
    <include schemaLocation="BN.xsd" />
    <include schemaLocation="MBBN.xsd" />
    <include schemaLocation="MR.xsd" />
    <include schemaLocation="MBMR.xsd" />
    <include schemaLocation="ZonalMR.xsd" />
    <include schemaLocation="SessionResult.xsd" />
    <include schemaLocation="MarketPlayerResult.xsd" />
    <include schemaLocation="GMMarketPlayersAccount.xsd" />
    <include schemaLocation="GMAccountActivity.xsd" />
    <include schemaLocation="SNAMPSVItem.xsd" />
    <include schemaLocation="SNAMMarginItem.xsd" />
    <include schemaLocation="GMMarketPlayerMarketInformation.xsd" />
    <include schemaLocation="GMMarketPlayerMarketEnablingInformation.xsd" />
    <include schemaLocation="GMOfferPointMarketEnablingInformation.xsd" />
    <include schemaLocation="GMInterZoneDetailsInformation.xsd" />
    <include schemaLocation="GMOfferPointProxiesInformation.xsd" />
    <include schemaLocation="GMOfferPointMarginsInformation.xsd" />
    <include schemaLocation="WarrantyVectorInformation.xsd"></include>
    <include schemaLocation="GMUserMarketInformation.xsd" />
    <include schemaLocation="StorageOperatorEnabling.xsd"></include>
    <include schemaLocation="GMSettlementAction.xsd" />
    <include schemaLocation="DefaultPrices.xsd"></include>
    <include schemaLocation="SNAMWarrantyItem.xsd"></include>
    <include schemaLocation="DN.xsd"></include>
    <include schemaLocation="GMManualSNAMFileGeneration.xsd"></include>
    <include schemaLocation="GMHolidays.xsd"></include>
    <include schemaLocation="OfferPoints.xsd"></include>
    <include schemaLocation="GMZones.xsd"></include>
    <include schemaLocation="GMMarketPlayerSellLimitsInformation.xsd"></include>
    <include schemaLocation="GMMarketPlayerMarginsInformation.xsd" />
    <include schemaLocation="DisputeMessages.xsd"></include>
    <include schemaLocation="DisputeTopics.xsd"></include>
<include schemaLocation="OMQDelivery.xsd"></include>
    <include schemaLocation="OMQDeliveryNotification.xsd"></include>

    <element name="Version" substitutionGroup="pd:tyVersion" type="string" />
    <element name="MarketPlayer" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayers" />
    <element name="MarketPlayerInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerInformations" />
    <element name="User" substitutionGroup="pd:TransactionDetail" type="pd:Users" />
```

```xml
        <element name="UserInformation" substitutionGroup="pd:TransactionDetail" type="pd:UserInformations" />
        <element name="UserMarketInformation" substitutionGroup="pd:TransactionDetail" type="pd:UserMarketInformation" />
        <element name="Offer" substitutionGroup="pd:TransactionDetail" type="pd:Offers" />
        <element name="OfferChangeStatus" substitutionGroup="pd:TransactionDetail" type="pd:OffersChangeStatus" />
        <element name="Session" substitutionGroup="pd:TransactionDetail" type="pd:Sessions" />
        <element name="Product" substitutionGroup="pd:TransactionDetail" type="pd:Products" />
        <element name="Parameter" substitutionGroup="pd:TransactionDetail" type="pd:Parameters" />
        <element name="FunctionalAcknowledgement" substitutionGroup="pd:TransactionDetail" type="pd:FunctionalAcknowledgements" />
        <element name="BN" substitutionGroup="pd:TransactionDetail" type="pd:BNs" />
        <element name="DN" substitutionGroup="pd:TransactionDetail" type="pd:DNs" />
        <element name="MBBN" substitutionGroup="pd:TransactionDetail" type="pd:MBBNs" />
        <element name="SessionResult" substitutionGroup="pd:TransactionDetail" type="pd:SessionResults" />
        <element name="MarketPlayerResult" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerResults" />
        <element name="MarketPlayersAccount" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerAccounts" />
        <element name="MarketPlayerMarketInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerMarketInformation" />
        <element name="MarketPlayerMarketEnablingInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerMarketEnablingInformation" />
        <element name="OfferPointMarketEnablingInformation" substitutionGroup="pd:TransactionDetail" type="pd:OfferPointMarketEnablingInformation" />
        <element name="OfferPointProxiesInformation" substitutionGroup="pd:TransactionDetail" type="pd:OfferPointProxiesInformation" />
        <element name="InterZoneDetailsInformation" substitutionGroup="pd:TransactionDetail" type="pd:InterZoneDetailsInformation" />
        <element name="WarrantyVectorInformation" substitutionGroup="pd:TransactionDetail" type="pd:WarrantyVectorInformation"></element>
        <element name="Account_Activity" substitutionGroup="pd:TransactionDetail" type="pd:AccountActivity" />
        <element name="SNAM_PSVItem" substitutionGroup="pd:TransactionDetail" type="pd:SNAMPSVItem" />
        <element name="SNAM_MarginItem" substitutionGroup="pd:TransactionDetail" type="pd:SNAMMarginItem" />
        <element name="MR" substitutionGroup="pd:TransactionDetail" type="pd:MRs" />
        <element name="MBMR" substitutionGroup="pd:TransactionDetail" type="pd:MBMRs" />
        <element name="ZonalMR" substitutionGroup="pd:TransactionDetail" type="pd:ZonalMR" />
        <element name="StorageOperatorEnabling" substitutionGroup="pd:TransactionDetail" type="pd:StorageOperatorEnabling"></element>
        <element name="SettlementAction" substitutionGroup="pd:TransactionDetail" type="pd:SettlementAction"/>
        <element name="DefaultPrices" substitutionGroup="pd:TransactionDetail" type="pd:DefaultPrices"></element>
        <element name="SNAMWarrantyItem" substitutionGroup="pd:TransactionDetail" type="pd:SNAMWarrantyItem"></element>
        <element name="ManualSNAMFileGeneration" substitutionGroup="pd:TransactionDetail" type="pd:ManualSNAMFileGeneration"></element>
        <element name="Holidays"  substitutionGroup="pd:TransactionDetail" type="pd:Holidays"></element>
        <element name="OfferPoints"  substitutionGroup="pd:TransactionDetail" type="pd:OfferPoints"></element>
        <element name="OfferPointMarginsInformation" substitutionGroup="pd:TransactionDetail" type="pd:OfferPointMarginsInformation" />
        <element name="MarketPlayerMarginsInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerMarginsInformation" />
        <element name="Zones" substitutionGroup="pd:TransactionDetail" type="pd:Zones" />
        <element name="MarketPlayerSellLimitsInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerSellLimitsInformation" ></element>
        <element name="DisputeMessages" substitutionGroup="pd:TransactionDetail" type="pd:DisputeMessages" />
        <element name="DisputeTopics" substitutionGroup="pd:TransactionDetail" type="pd:DisputeTopics" />
        <element name="OMQDelivery" substitutionGroup="pd:TransactionDetail" type="pd:OMQDelivery" />
        <element name="OMQDeliveryNotification" substitutionGroup="pd:TransactionDetail" type="pd:OMQDeliveryNotification" />
</schema>
```

BaseMessageTypes.xsd

```xml
<?xml version="1.0" encoding="iso-8859-1" ?>
<schema id="MessageTypes"
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-GM"
  xmlns:pd="urn:XML-GM"
  elementFormDefault="qualified">
```

```xml
<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="50" />
  </restriction>
</simpleType>

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

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

<simpleType name="tyTransactionStatus">
```

```xml
      <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="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>
```

TYPES.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1" ?>
<schema id="MessageTypes"
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-GM"
  xmlns:pd="urn:XML-GM"
  elementFormDefault="qualified">
```

```xml
<element name="RejectInformation">
        <complexType>
                <sequence>
                        <element name="Reason" type="pd:ty032len"/>
                        <element name="ReasonText" type="pd:ty01024len" minOccurs="0" maxOccurs="1"/>
                </sequence>
        </complexType>
</element>

<simpleType name="ty1len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="3" />
        </restriction>
</simpleType>

<simpleType name="ty2len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="2" />
        </restriction>
</simpleType>

<simpleType name="ty3len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="3" />
        </restriction>
</simpleType>

<simpleType name="ty04len">
        <restriction base="string">
                <minLength value="0" />
                <maxLength value="4" />
        </restriction>
</simpleType>

<simpleType name="ty4len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="4" />
        </restriction>
</simpleType>

<simpleType name="ty08len">
        <restriction base="string">
                <minLength value="0" />
                <maxLength value="8" />
        </restriction>
</simpleType>
```

```xml
<simpleType name="ty8len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="8" />
        </restriction>
</simpleType>

<simpleType name="ty016len">
        <restriction base="string">
                <minLength value="0" />
                <maxLength value="16" />
        </restriction>
</simpleType>

<simpleType name="ty16len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="16" />
        </restriction>
</simpleType>

<simpleType name="ty032len">
        <restriction base="string">
                <minLength value="0" />
                <maxLength value="32" />
        </restriction>
</simpleType>

<simpleType name="ty32len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="32" />
        </restriction>
</simpleType>

<simpleType name="ty30len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="30" />
        </restriction>
</simpleType>

<simpleType name="ty50len">
        <restriction base="string">
                <minLength value="1" />
                <maxLength value="50" />
        </restriction>
</simpleType>

<simpleType name="ty500len">
        <restriction base="string">
```

```xml
				<minLength value="1" />
				<maxLength value="500" />
		</restriction>
</simpleType>

<simpleType name="ty064len">
		<restriction base="string">
				<minLength value="0" />
				<maxLength value="64" />
		</restriction>
</simpleType>

<simpleType name="ty64len">
		<restriction base="string">
				<minLength value="1" />
				<maxLength value="64" />
		</restriction>
</simpleType>

<simpleType name="ty0128len">
		<restriction base="string">
				<minLength value="0" />
				<maxLength value="128" />
		</restriction>
</simpleType>

<simpleType name="ty128len">
		<restriction base="string">
				<minLength value="1" />
				<maxLength value="128" />
		</restriction>
</simpleType>

<simpleType name="ty0256len">
		<restriction base="string">
				<minLength value="0" />
				<maxLength value="256" />
		</restriction>
</simpleType>

<simpleType name="ty256len">
		<restriction base="string">
				<minLength value="1" />
				<maxLength value="256" />
		</restriction>
</simpleType>

<simpleType name="ty256len0">
		<restriction base="string">
				<minLength value="0" />
				<maxLength value="256" />
```

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

        <simpleType name="ty0512len">
                <restriction base="string">
                        <minLength value="0" />
                        <maxLength value="512" />
                </restriction>
        </simpleType>

        <simpleType name="ty512len">
                <restriction base="string">
                        <minLength value="1" />
                        <maxLength value="512" />
                </restriction>
        </simpleType>

        <simpleType name="ty01024len">
                <restriction base="string">
                        <minLength value="0" />
                        <maxLength value="1024" />
                </restriction>
        </simpleType>

        <simpleType name="ty1024len">
                <restriction base="string">
                        <minLength value="1" />
                        <maxLength value="1024" />
                </restriction>
        </simpleType>

        <simpleType name="ty33len">
                <restriction base="string">
                        <minLength value="1" />
                        <maxLength value="33" />
                </restriction>
        </simpleType>

        <simpleType name="ty050len">
                <restriction base="string">
                        <minLength value="0" />
                        <maxLength value="50" />
                </restriction>
        </simpleType>

        <simpleType name="tyDate">
                <restriction base="integer">
                        <minInclusive value="19000101"/>
                        <maxInclusive value="29001231"/>
                </restriction>
        </simpleType>
```

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

<simpleType name="tyMarketPlayerType">
        <restriction base="string">
                <enumeration value="OWN"/>
                <enumeration value="REG"/>
                <enumeration value="VEN"/>
                <enumeration value="VENR"/>
                <enumeration value="VENC"/>
                <enumeration value="REGM"/>
                <enumeration value="REGP"/>
                <enumeration value="SNAM"/>
                <enumeration value="STOR"/>
                <enumeration value="VENX"></enumeration>
        </restriction>
</simpleType>

<simpleType name="tyResultType">
        <restriction base="string">
                <enumeration value="ZoneResults"/>
                <enumeration value="InterZoneResults"/>
                <enumeration value="GenericMarketResults"/>
        </restriction>
</simpleType>

<simpleType name="tyQtyMWh">
        <restriction base="string">
                <!-- 99999999     ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno -->
                <pattern value="^?\d{1,12}(,\d{1,3})|^?\d{1,12}(,\d{1,2})|^?\d{1,12}(,\d{1,1})|^?\d{1,12}$"/>
        </restriction>
</simpleType>

<simpleType name="tyCoefficient">
        <restriction base="string">
                <!-- 99999999     ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno -->
                <pattern value="^?\d{1,12}(,\d{1,3})|^?\d{1,12}(,\d{1,2})|^?\d{1,12}(,\d{1,1})|^?\d{1,12}$"/>
        </restriction>
</simpleType>

<simpleType name="tyPrice">
        <restriction base="string">
                <!-- 99999999     ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno -->
```

```xml
                    <pattern value="^\d{1,12}(,\d{1,4})?$"/>
            </restriction>
</simpleType>

<simpleType name="tyPriceTwoDecimals">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno -->
                <pattern value="^\d{1,12}(,\d{1,2})?$"/>
        </restriction>
</simpleType>

<simpleType name="tyPriceThreeDecimals">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno -->
                <pattern value="^\d{1,12}(,\d{1,3})?$"/>
        </restriction>
</simpleType>



<simpleType name="tyQuantity">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 1 decimali senza segno -->
                <pattern value="^\d{1,12}(,\d{1,3})?$"/>
        </restriction>
</simpleType>

<simpleType name="tySRGQuantity">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 1 decimali senza segno -->
                <pattern value="^\d{1,12}(,\d{1,7})?$"/>
        </restriction>
</simpleType>

<simpleType name="tySignedQuantity">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 1 decimali senza segno -->
                <pattern value="^[-+]\d{1,12}(,\d{1,1})?$"/>
        </restriction>
</simpleType>

<simpleType name="tyAwardedPrice">
        <restriction base="string">
                <!-- 99999999      ==> senza separatore migliaia solo intero senza decimali senza segno  -->
                <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno -->
```

```xml
			<pattern value="^?\d{1,12}(,\d{1,6})|^?\d{1,12}(,\d{1,5})|^?\d{1,12}(,\d{1,4})|^?\d{1,12}(,\d{1,3})|^?\d{1,12}(,\d{1,2})|^?\d{1,12}(,\d{1,1})|^?\d{1,12}$"/>
			</restriction>
		</simpleType>

		<simpleType name="tyFlowMwh">
			<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{1,12}(,\d{1,3})|^?\d{1,12}(,\d{1,2})|^?\d{1,12}(,\d{1,1})|^?\d{1,12}$"/>
			</restriction>
		</simpleType>



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


		<simpleType name="tyTransactionType">
			<restriction base="string">
					<enumeration value="MarketPlayers" />
					<enumeration value="Users" />
					<enumeration value="UserInformations" />
					<enumeration value="Parameters" />
					<enumeration value="FunctionalAcknowledgement" />
					<enumeration value="Offers" />
					<enumeration value="Sessions" />
					<enumeration value="BidsOffers" />
					<enumeration value="MarketSessions" />
					<enumeration value="MarketResults" />
					<enumeration value="BidNotifications" />
					<enumeration value="BNs" />
					<enumeration value="DNs" />
					<enumeration value="MBBNs" />
					<enumeration value="MRs" />
					<enumeration value="MBMRs" />
					<enumeration value="ZonalMR" />
					<enumeration value="SessionResults" />
					<enumeration value="MarketPlayerResults" />
					<enumeration value="MarketPlayerInformations" />
					<enumeration value="MarketPlayerMarketEnablingInformation" />
					<enumeration value="OfferPointMarketEnablingInformation" />
					<enumeration value="OfferPointMarginsInformation" />
					<enumeration value="MarketPlayerMarginsInformation" />
```

```xml
                    <enumeration value="InterZoneDetailsInformation" />
                    <enumeration value="OfferPointProxiesInformation" />
                    <enumeration value="MarketPlayersAccount" />
                    <enumeration value="AccountActivity" />
                    <enumeration value="SNAMPSVItem" />
                    <enumeration value="OfferPoints" />
                    <enumeration value="SNAMMarginItem" />
                    <enumeration value="StorageOperatorEnabling"></enumeration>
                    <enumeration value="DefaultPrices"></enumeration>
                    <enumeration value="SNAMWarrantyItem"></enumeration>
                    <enumeration value="ManualSNAMFileGeneration"></enumeration>
                    <enumeration value="Zones"></enumeration>
                    <enumeration value="Unknown" />
                    <enumeration value="GMMarketPlayerSellLimitsInformation"></enumeration>
                    <enumeration value ="DisputeMessages"></enumeration>
                    <enumeration value ="DisputeTopics"></enumeration>
                    <enumeration value ="OMQDelivery"></enumeration>
                    <enumeration value ="OMQDeliveryNotification"></enumeration>
            </restriction>
    </simpleType>

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

    <simpleType name="tyOperation2">
            <restriction base="string">
                    <enumeration value="AddNew"/>
                    <enumeration value="DeleteInsert"/>
                    <enumeration value="Confirm"/>
            </restriction>
    </simpleType>

    <simpleType name="tyOperation3">
            <restriction base="string">
                    <enumeration value="New"/>
                    <enumeration value="Modify"/>
                    <enumeration value="Delete"/>
            </restriction>
    </simpleType>

    <simpleType name="tyMKOfferMode">
            <restriction base="string">
                    <enumeration value="Normal"/>
                    <enumeration value="ExecuteAndDelete"/>
                    <enumeration value="ExecuteOrDelete"/>
                    <!--<enumeration value="AllOrNothing"/>-->
            </restriction>
```

```xml
        </simpleType>

        <simpleType name="tyOMQOfferType">
                <restriction base="string">
                        <enumeration value="S"></enumeration>
                        <enumeration value="B"></enumeration>
                </restriction>
        </simpleType>

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

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


</schema>
```

Transazioni xml messe a disposizione degli operatori

FUNCTIONAL ACKNOWLEDGMENT

FUNCTIONAL ACKNOWLEDGMENT POSITIVO

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Response"
MessageDate="2010-12-01" MessageTime="09:34:04.3972610+01:00" ResponseMessageStatus="Accepted" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Sender>
```

```xml
      <Receiver>
        <OperatorMsgCode>9999999</OperatorMsgCode>
      </Receiver>
    </Header>
    <Transaction>
      <FunctionalAcknowledgement TransactionType="Offers" Status="Accepted" XmlOrder="1"  RefId="828"  />
    </Transaction>
    <Transaction>
      <FunctionalAcknowledgement TransactionType="Offers" Status="Accepted" XmlOrder="2"  RefId="829"  />
    </Transaction>
</Message>
```

FUNCTIONAL ACKNOWLEDGMENT NEGATIVO

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Response"
MessageDate="2010-12-01" MessageTime="09:28:47.6849168+01:00" ResponseMessageStatus="Rejected" xmlns="urn:XML-GM">
    <Header>
      <Sender>
        <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
      </Sender>
      <Receiver>
        <OperatorMsgCode>9999999</OperatorMsgCode>
      </Receiver>
    </Header>
    <Transaction>
      <FunctionalAcknowledgement TransactionType="Offers" Status="Rejected" XmlOrder="1">
        <RejectInformation>
          <Reason>OF03</Reason>
          <ReasonText>no open session found</ReasonText>
        </RejectInformation>
      </FunctionalAcknowledgement>
    </Transaction>
</Message>
```

FUNCTIONALACKNOWLEDGEMENT.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1" ?>
<schema
    xmlns="http://www.w3.org/2001/XMLSchema"
    targetNamespace="urn:XML-GM"
    xmlns:pd="urn:XML-GM"
    elementFormDefault="qualified">
```

```xml
<include schemaLocation="BaseMessageTypes.xsd" />
<include schemaLocation="Types.xsd" />
<complexType name="FunctionalAcknowledgements">
  <sequence>
    <element ref = "pd:RejectInformation" minOccurs="0" maxOccurs="unbounded"/>
  </sequence>
  <attribute name="TransactionType" type="pd:tyTransactionType" use="optional"/>
  <attribute name="Status" type="pd:tyTransactionStatus" use="required"/>
  <attribute name="MPN" type="string" use="optional"/>
  <attribute name="XmlOrder" type="int" use="required"/>
  <attribute name="RefId" type="int" use="optional"/>
</complexType>
</schema>
```

MBBN

MBBN

```xml
<Message xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" MessageType="Notify"
MessageDate="2013-10-24" MessageTime="14:43:17.2935045+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>PBZ00001</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <MBBN>
      <Date>2013-10-25</Date>
      <OfferId>74174</OfferId>
      <ProductName>LOC-PROD</ProductName>
      <OfferPointCode>123463</OfferPointCode>
      <ExecutionDetails>
        <SubmittedPrice>14,000</SubmittedPrice>
        <Market>PBZ3</Market>
        <SubmittedQty>0,000</SubmittedQty>
        <RefusedQty>1093,000</RefusedQty>
        <Status>Incongruous</Status>
        <RejectInfo>The offer is incongruous due to margin overflow</RejectInfo>
```

```xml
        <Purpose>V</Purpose>
        <MPN>REDUCED QUANTITY FOR MARGIN OVERFLOW</MPN>
      </ExecutionDetails>
    </MBBN>
  </Transaction>
  <Transaction>
    <MBBN>
      <Date>2013-10-25</Date>
      <OfferId>74175</OfferId>
      <ProductName>LOC-PROD</ProductName>
      <OfferPointCode>123463</OfferPointCode>
      <ExecutionDetails>
        <SubmittedPrice>14,000</SubmittedPrice>
        <Market>PBZ3</Market>
        <SubmittedQty>3137,000</SubmittedQty>
        <Status>Discarded</Status>
        <RejectInfo>Offer discarded because it has the same offer type of the SNAM Rete Gas offer</RejectInfo>
        <Purpose>A</Purpose>
      </ExecutionDetails>
    </MBBN>
  </Transaction>
  <Transaction>
    <MBBN>
      <Date>2013-10-25</Date>
      <OfferId>74182</OfferId>
      <ProductName>LOC-PROD</ProductName>
      <OfferPointCode>123463</OfferPointCode>
      <ExecutionDetails>
        <SubmittedPrice>12,000</SubmittedPrice>
        <Market>PBZ3</Market>
        <SubmittedQty>178,000</SubmittedQty>
        <RefusedQty>332,000</RefusedQty>
        <Status>Discarded</Status>
        <RejectInfo>Discarded</RejectInfo>
        <Purpose>V</Purpose>
        <MPN>REDUCED QUANTITY FOR MARGIN OVERFLOW</MPN>
      </ExecutionDetails>
    </MBBN>
  </Transaction>
  <Transaction>
    <MBBN>
      <Date>2013-10-25</Date>
      <OfferId>74256</OfferId>
      <ProductName>LOC-PROD</ProductName>
      <OfferPointCode>123463</OfferPointCode>
```

```xml
        <ExecutionDetails>
            <SubmittedPrice>3,000</SubmittedPrice>
            <AwardedPrice>3,000</AwardedPrice>
            <Market>PBZ3</Market>
            <SubmittedQty>4022,000</SubmittedQty>
            <AwardedQty>662,000</AwardedQty>
            <RefusedQty>603,000</RefusedQty>
            <Status>Awarded</Status>
            <Purpose>V</Purpose>
            <MPN>REDUCED QUANTITY FOR MARGIN OVERFLOW</MPN>
        </ExecutionDetails>
    </MBBN>
  </Transaction>
</Message>
```

MBBN.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM"
        elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <complexType name="MBBNs">
    <sequence>
      <element name="Date" type="date" minOccurs="1" maxOccurs="1" />
      <element name="OfferId" type="int" minOccurs="1" maxOccurs="1"  />
      <element name="ProductName" type="pd:ty16len" minOccurs="1" maxOccurs="1"  />
      <element name="VendorCode" type="pd:ty16len" minOccurs="0" maxOccurs="1"  />
      <element name="OfferPointCode" type="pd:ty16len" minOccurs="0" maxOccurs="1"  />
      <choice>
        <element name="OffersDetails" type="pd:MBBNDetail" minOccurs="1" maxOccurs="unbounded" />
        <element name="ExecutionDetails" type="pd:MBBNExecutionDetail" minOccurs="1" maxOccurs="unbounded" />
      </choice>
    </sequence>
  </complexType>
  <complexType name="MBBNDetail">
    <sequence>
      <element name="Price" type="pd:tyPrice" minOccurs="1" maxOccurs="1" />
      <element name="Contracts" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
    </sequence>
    <attribute name="OfferMatchId" type="int" use="optional" />
  </complexType>
  <complexType name="MBBNExecutionDetail">
    <sequence>
      <element name="SubmittedPrice" type="pd:tyPriceTwoDecimals" minOccurs="1" maxOccurs="1" />
      <element name="AwardedPrice" type="pd:tyPriceTwoDecimals" minOccurs="0" maxOccurs="1" />
      <element name="Market" type="string" minOccurs="0" maxOccurs="1"/>
      <element name="SubmittedQty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
      <element name="AwardedQty" type="pd:tyQuantity" minOccurs="0" maxOccurs="1" />
```

```xml
        <element name="RefusedQty" type="pd:tySignedQuantity" minOccurs="0" maxOccurs="1" />
        <element name="Status" type="string" minOccurs="1" maxOccurs="1" />
        <element name="RejectInfo" type="string" minOccurs="0" maxOccurs="unbounded" />
        <element name="Purpose" type="string" minOccurs="1" maxOccurs="1"/>
        <element name="StorageOperatorCode" type="pd:ty32len" minOccurs="1" maxOccurs="1"  />
        <element name="MPN" type="string" minOccurs="0" maxOccurs="1"/>
      </sequence>
    </complexType>
</schema>
```

ZONALMR

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" MessageType="Request"
MessageDate="2013-10-24" MessageTime="14:43:17.3630124+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>MB*</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <ZonalMR>
      <FlowDate>2013-10-25</FlowDate>
      <MarketCode>PBZ1</MarketCode>
      <ZoneResults>
        <ZoneCode>IMPORT</ZoneCode>
        <MarginalPrice>3,000</MarginalPrice>
        <MarginalBuyQuantity>662,000</MarginalBuyQuantity>
        <MarginalSellQuantity>0,000</MarginalSellQuantity>
        <InitialBuyQuantity>662,000</InitialBuyQuantity>
        <InitialSellQuantity>0,000</InitialSellQuantity>
      </ZoneResults>
    </ZonalMR>
  </Transaction>
</Message>
```

ZONALMR.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM"
        elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <complexType name="ZonalMR">
    <sequence>
```

```xml
        <element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"></element>
        <element name="MarketCode" type="string" minOccurs="1" maxOccurs="1"  />
        <element name="ZoneResults" type="pd:ZoneResultsDefinition" minOccurs="0" maxOccurs="unbounded" />
    </sequence>
  </complexType>
  <complexType name="ZoneResultsDefinition">
    <sequence>
      <element name="ZoneCode" type="pd:ty16len" minOccurs="1" maxOccurs="1" />
      <element name="MarginalPrice" type="pd:tyPriceThreeDecimals" minOccurs="1" maxOccurs="1" />
      <element name="MarginalBuyQuantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"></element>
      <element name="MarginalSellQuantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"></element>
      <element name="InitialBuyQuantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"></element>
      <element name="InitialSellQuantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"></element>
    </sequence>
  </complexType>
</schema>
```

OFFERTE

SOTTOMISSIONE DI UN'OFFERTA

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Request"
MessageDate="2013-10-24" MessageTime="14:56:07.5482924+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>PBZ00001</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Offer OfferType="A">
      <ProductName>LOC-PROD</ProductName>
      <Quantity>5000,000</Quantity>
      <PBZPrice>23,000</PBZPrice>
      <ExpiryTime>2013-10-25</ExpiryTime>
      <MarketCode>PBZ1</MarketCode>
      <FlowDate>2013-10-25</FlowDate>
      <OfferPointCode>45625787</OfferPointCode>
    </Offer>
  </Transaction>
  <Transaction>
    <Offer OfferType="A">
```

```xml
        <ProductName>LOC-PROD</ProductName>
        <Quantity>4000,000</Quantity>
        <PBZPrice>24,000</PBZPrice>
        <ExpiryTime>2013-10-25</ExpiryTime>
        <MarketCode>PBZ1</MarketCode>
        <FlowDate>2013-10-25</FlowDate>
        <OfferPointCode>45625787</OfferPointCode>
      </Offer>
    </Transaction>
    <Transaction>
      <Offer OfferType="V">
        <ProductName>TITLE-TRAN</ProductName>
        <Quantity>2000,000</Quantity>
        <PBZPrice>27,000</PBZPrice>
        <ExpiryTime>2013-10-24</ExpiryTime>
        <MarketCode>PBZ1</MarketCode>
        <FlowDate>2013-10-25</FlowDate>
        <ReferenceDate>2013-10-26</ReferenceDate >
        <OfferPointCode>45345787</OfferPointCode>
      </Offer>
    </Transaction>
    <Transaction>
      <Offer OfferType="V">
        <ProductName>DEF-DEL</ProductName>
        <Quantity>2000,000</Quantity>
        <PBZPrice>27,000</PBZPrice>
        <ExpiryTime>2013-10-25</ExpiryTime>
        <MarketCode>PBZ1</MarketCode>
        <FlowDate>2013-10-25</FlowDate>
        <ReferenceDate>2013-10-26</ReferenceDate >
        <OfferPointCode>4515787</OfferPointCode>
      </Offer>
    </Transaction>
</Message>
```

MODIFICA DI UN'OFFERTA

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Request"
MessageDate="2013-10-24" MessageTime="15:02:49.7456672+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>PBZ00001</OperatorMsgCode>
```

```xml
      </Sender>
      <Receiver>
        <OperatorMsgCode>IDGME</OperatorMsgCode>
      </Receiver>
    </Header>
    <Transaction>
      <Offer OffersId="74285" OfferType="A">
        <ProductName>LOC-PROD</ProductName>
        <Quantity>6000,000</Quantity>
        <PBZPrice>13,000</PBZPrice>
        <ExpiryTime>2013-10-25</ExpiryTime>
        <MarketCode>PBZ1</MarketCode>
        <FlowDate>2013-10-25</FlowDate>
        <OfferPointCode>123434345</OfferPointCode>
      </Offer>
    </Transaction>
    <Transaction>
      <Offer OffersId="74286" OfferType="A">
        <ProductName>TITLE-TRAN</ProductName>
        <Quantity>2000,000</Quantity>
        <PBZPrice>11,000</PBZPrice>
        <ExpiryTime>2013-10-25</ExpiryTime>
        <MarketCode>PBZ1</MarketCode>
        <FlowDate>2013-10-25</FlowDate>
        <ReferenceDate>2013-10-29</ReferenceDate >
        <OfferPointCode>123434345</OfferPointCode>
      </Offer>
    </Transaction>
</Message>
```

INVIO DI UN'OFFERTA PREDEFINITA

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Request"
MessageDate="2013-10-24" MessageTime="15:12:10.1871977+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>PBZ00001</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Offer OfferType="V">
```

```xml
            <ProductName>LOC-PROD</ProductName>
            <Quantity>6500,000</Quantity>
            <PBZPrice>12,000</PBZPrice>
            <ExpiryTime>2013-10-24</ExpiryTime>
            <Predefined>true</Predefined>
            <MarketCode>PBZ1</MarketCode>
            <FlowDate>2013-10-24</FlowDate>
            <OfferPointCode>345674216</OfferPointCode>
        </Offer>
    </Transaction>
    <Transaction>
        <Offer OfferType="V">
            <ProductName>DEF-DEL</ProductName>
            <Quantity>6500,000</Quantity>
            <PBZPrice>12,000</PBZPrice>
            <ExpiryTime>2013-10-24</ExpiryTime>
            <Predefined>true</Predefined>
            <MarketCode>PBZ1</MarketCode>
            <FlowDate>2013-10-24</FlowDate>
            <OfferPointCode>312374216</OfferPointCode>
        </Offer>
    </Transaction>
    <Transaction>
        <Offer OfferType="A">
            <ProductName>TITLE-TRAN</ProductName>
            <Quantity>6500,000</Quantity>
            <PBZPrice>12,000</PBZPrice>
            <ExpiryTime>2013-10-24</ExpiryTime>
            <Predefined>true</Predefined>
            <MarketCode>PBZ1</MarketCode>
            <FlowDate>2013-10-24</FlowDate>
            <OfferPointCode>2123742416</OfferPointCode>
        </Offer>
    </Transaction>
</Message>
```

GMOFFER.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM"
        elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <complexType name="Offers">
    <sequence>
      <element name="ProductName" type="pd:ty32len" minOccurs="1" maxOccurs="1" />
```

```xml
      <choice>
        <element name="Contracts" type="long" minOccurs="1" maxOccurs="1"/>
        <element name="Quantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
                    <element name="SRGQuantity" type="pd:tySRGQuantity" minOccurs="1" maxOccurs="1" />
      </choice>
      <choice>
        <element name="Price" type="pd:tyPrice" minOccurs="0" maxOccurs="1" />
        <element name="MBPrice" type="pd:tyPriceThreeDecimals" minOccurs="0" maxOccurs="1" />
        <element name="MTPrice" type="pd:tyPriceThreeDecimals" minOccurs="0" maxOccurs="1" />
        <element name="PBZPrice" type="pd:tyPriceThreeDecimals" minOccurs="0" maxOccurs="1" />
      </choice>
      <element name="ExpiryTime" type="date" minOccurs="1" maxOccurs="1" />
      <element name="Predefined" type="boolean" minOccurs="0" maxOccurs="1" default="false"></element>
      <element name="MarketCode" type="string" minOccurs="0" maxOccurs="1" />
      <element name="Notes" type="string" minOccurs="0" maxOccurs="1" />
      <element name="Replacement" type="boolean" minOccurs="0" maxOccurs="1"/>
      <element name="FlowDate" type="date" minOccurs="0" maxOccurs="1" nillable="true" />
      <element name="StorageOperatorCode" type="pd:ty32len" minOccurs="0" maxOccurs="1"  />
      <element name="OTCMarketPlayerCode" type="pd:ty32len" minOccurs="0" maxOccurs="1"  />
      <element name="OTCCode" type="pd:ty32len" minOccurs="0" maxOccurs="1"  />
      <element name="ReferenceDate" type="date" minOccurs="0" maxOccurs="1" nillable="true" />
      <element name="OfferPointCode" type="pd:ty32len" minOccurs="0" maxOccurs="1"  />
    </sequence>
    <attribute name="SessionsId" type="int" use="optional" default="0" />
    <attribute name="OffersId" type="int" use="optional" default="0" />
    <attribute name="VendorCode" type="pd:ty32len" use="optional" />
    <attribute name="OfferType" type="pd:tyOfferType" use="required" />
    <attribute name="OfferMode" type="pd:tyMKOfferMode" use="optional" />
    <attribute name="OTCConfirmation" type="boolean" use="optional"/>
  </complexType>
</schema>
```

REVOCA DI UN'OFFERTA

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageType="Request"
MessageDate="2013-10-24" MessageTime="15:09:42.3717011+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>PBZ00001</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <OfferChangeStatus OfferId="74285">
      <Status>R</Status>
```

```xml
        </OfferChangeStatus>
    </Transaction>
</Message>
```

GMOFFERCHANGESTATUS.XSD

```xml
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM"
        elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <complexType name="OffersChangeStatus">
    <sequence>
            <element name="Status" type="pd:ty1len" minOccurs="1" maxOccurs="1" />
      </sequence>
        <attribute name="OfferId" type="int" use="optional" default="1" />
  </complexType>
</schema>
```
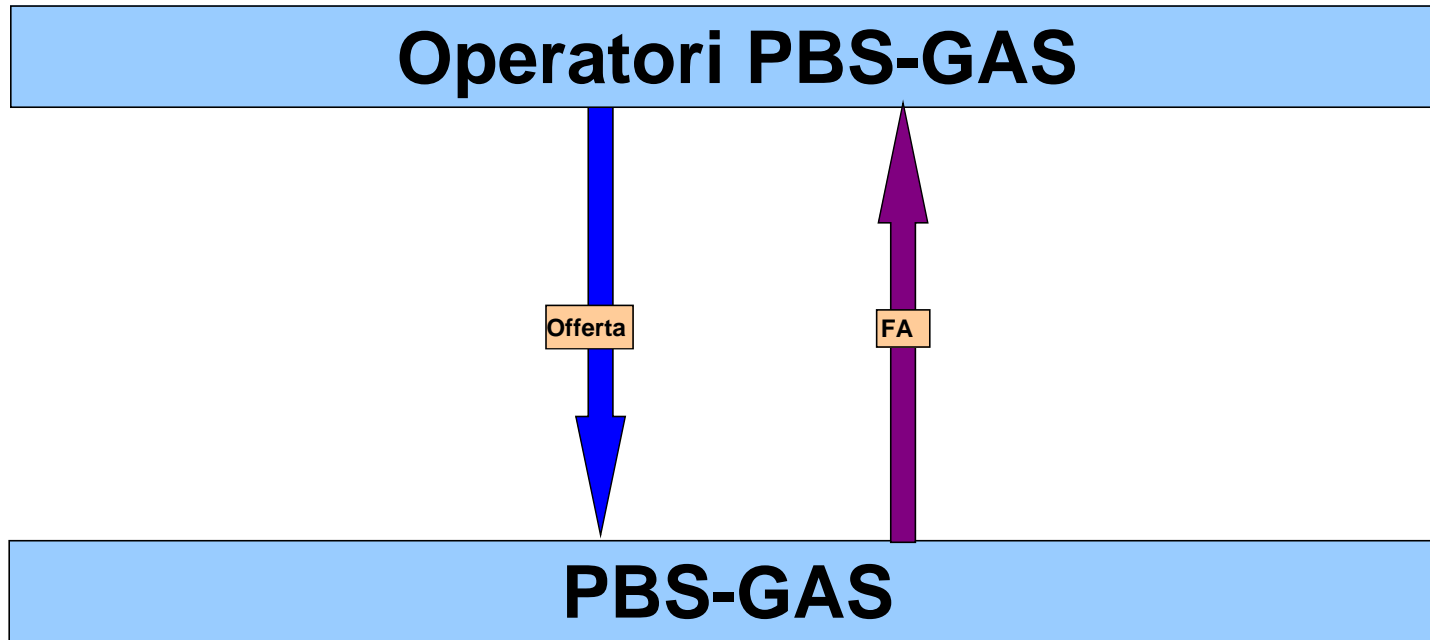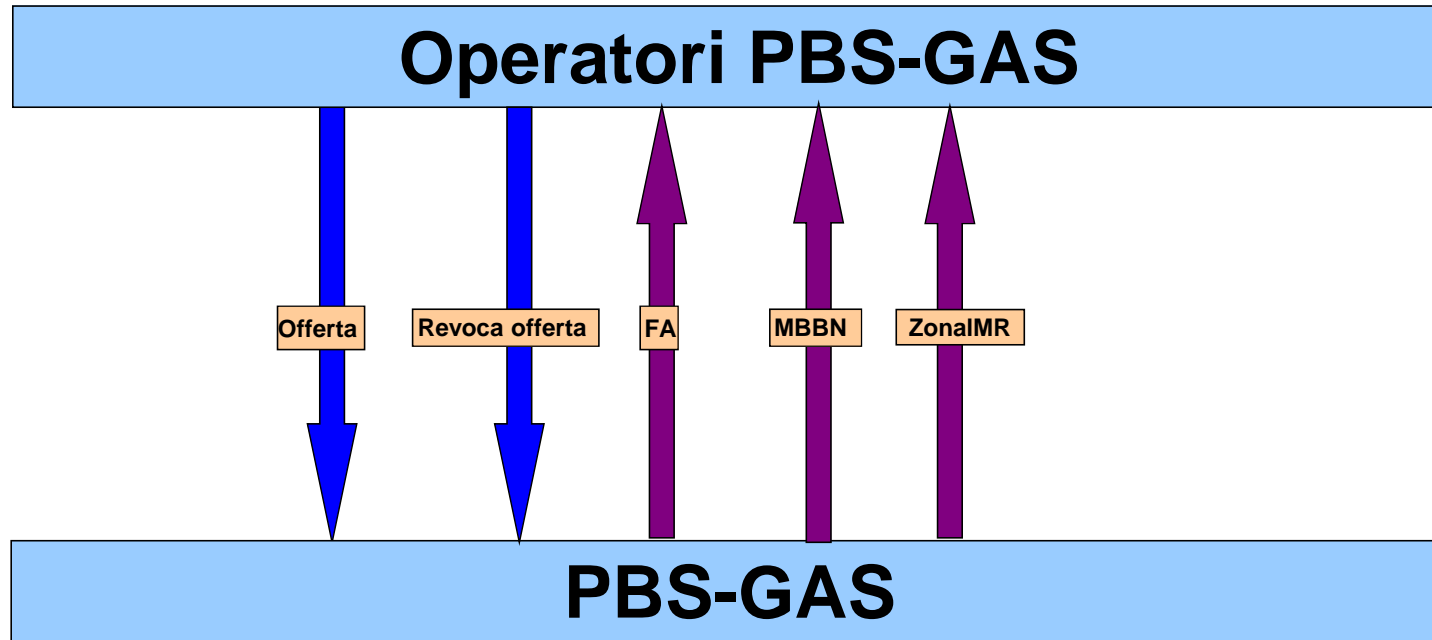
Caso 1: Sottomissione offerta

Caso 3: Sottomissione offerta, Chiusura ed esecuzione Mercato

Offer Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		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=50	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	IDGMEGAS	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
Offer	E	(see Offer data structure)		1/1		
Offer						
VendorCode	A	PSV code		0/1	max =32	The code of the vendor operator
OfferType	A	V,A		1/1	max =1	The type of the offer: sell (V) or buy (A)
ProductName	E	LOC-PROD, TITLE-TRAN, DEF-DEL	A/N	1/1	max=32	The name of the product associated to the market
Quantity	E	Valid decimal number	999999999999,999	1/1		The quantity
PBZrice	E	Valid decimal number	999999999999,999	1/1		The price
ExpiryTime	E	9999-12-31	YYYY-MM-DD	1/1		Currently unused
Predefined	E	false,true	boolean	0/1		not used
MarketCode	E		A/N	1/1		The market code the offer is referring to.
Notes	E		A/N	0/1		An operator's note.
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the session to which the offer is referring.
ReferenceDate	E	Delivery date	YYYY-MM-DD	0/1		The delivery date. If not specified, this date is the same of FlowDate
OfferPointCode	E	Offer point code	A/N	1/1	max =32	The offer point code

Offer Change Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		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=50	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	IDGMEGAS	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
Offer	E	(see Offer data structure)		1/1		
Offer						
OffersId	A		integer	1/1		The id of the offer
VendorCode	A	PSV code		1/1	max =32	The code of the vendor operator
OfferType	A	V,A		1/1	max =4	The type of the offer: sell (V) or buy (A)
ProductName	E	LOC-PROD	A/N	1/1	max=32	The name of the product associated to the market
Quantity	E	Valid decimal number	999999999999,999	1/1		The quantity
MBPrice	E	Valid decimal number	999999999999,99	1/1		The price
ExpiryTime	E	9999-12-31	YYYY-MM-DD	1/1		Currently unused
Predefined	E	false,true	boolean	0/1		not used
MarketCode	E		A/N	1/1		The market code the offer is referring to.
Notes	E		A/N	0/1		An operator's note.
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the session to which the offer is referring.
OfferPointCode	E	Offer point code		1/1	max =32	The offer point code

Offer Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E		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=50	The unique identifier for the user who sends
Receiver						
OperatorMsgCode	E	IDGMEGAS	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
OffersChangeStatus	E	(see OffersChangeStatus data structure)		1/1		
OffersChangeStatus						
OfferId	A	Valid positive integer number	999999999999	1/1		The id of the offer being modified
Status	E	R	A/N	0/1		The desired status of the offer. R: revoked

Functional Acknowledgment Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	IDGMEGAS	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=50	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
FunctionalAcknowledgement	E	(see FunctionalAcknowledgement data structure)		1/1		
FunctionalAcknowledgement						
TransactionType	A		A/N	0/1		The type of transaction the FA is referring to.
Status	A	Accepted, Rejected	A/N	1/1		The outcome of the transaction
MPN	A		A/N	0/1		External reference number
RefId	A		integer	0/1		The id of the submitted offer
XmlOrder	A		integer	1/1		The xml order
RejectInformation	E	(see RejectInformation data structure)		1 or more		
RejectInformation						
Reason	E		A/N	1/1	max=32	The short description of the rejection
ReasonText	E		A/N	0/1	max=1024	The extended description of the rejection

Zonal Market Result Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	IDGMEGAS	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=50	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
ZonalMR	E	(see ZonalMR data structure)		1/1		
ZonalMR						
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the market session
MarketCode	E		A/N	1/1		The market code the offer is referring to.
ZonalResultsDefinition	E	(see ZonalResultsDefinition data structure)		1 or more		
ZoneResultsDefinition						
ZoneCode	E		A/N	1/1		The code of the zone
MarginalPrice	E	Valid decimal number	999999999999,999	1/1		Marginal Price
MarginalBuyQty	E	Valid decimal number	999999999999,999	1/1		Marginal buy quantity
MarginalSellQty	E	Valid decimal number	999999999999,999	1/1		Marginal sell quantity
InitialBuyQuantity	E	Valid decimal number	999999999999,999	1/1		Initial buy quantity
InitialSellQuantity	E	Valid decimal number	999999999999,999	1/1		Initial sell quantity
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the market session

Bid Notification Implementation Guide for PBS-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
Message		A/N	A/N	1 for file		
xmlns:xsi	A					Defines the schema instance being used.
xmlns:xsd	A					Associates the actual schema instance being used to the name space.
xmlns	A					
MessageType	A	Request		0/1		Message type
MessageDate	A	Valid date	YYYY-MM-DD	1/1		Date of the message
MessageTime	A			0/1		Time of the message
Header	E	(see Header data structure)		1/1		Contains the sender and the recipient of the message
Transaction	E	(see Transaction data structure)		1 or more		Transaction Container
Header						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
Sender						
OperatorMsgCode	E	IDGMEGAS	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=50	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=50	The unique identifier for the user who receives
Transaction						
MPN	A		A/N	0/1	max=32	External reference number
MBBN	E	(see MBBNs data structure)		1/1		
MBBNs						
Date	E		Date	1/1		Flow Date
OfferId	E		integer	1/1		The Offer ID
ProductName	E		A/N	1/1	max=16	The name of product
VendorCode	E		A/N	0/1	max=16	Vendor Code Identifier
OfferPointCode	E		A/N	1/1		The offer point code
ExecutionDetails	E	(see MBBNExecutionDetail data structure)				
MBBNExecutionDetail						
SubmittedPrice	E	Valid decimal number	999999999999,999	1/1		The original offer price
AwardedPrice	E	Valid decimal number	999999999999,999	0/1		The awarded offer price
Market	E		A/N	0/1		The market Identifier
SubmittedQty	E	Valid decimal number	999999999999,999	1/1		The initial offer quantity
AwardedQty	E	Valid decimal number	999999999999,999	0/1		The awarded quantity
RefusedQty	E	Valid decimal number	999999999999,999	0/1		The refused quantity
Status	E	V, I, D	A/N	1/1		The status of offer
RejectInfo	E		A/N	0 or more		The reasons of the rejection
Purpose	E	A, V	A/N	1/1		Specify if the offer is sell (V) or buy (A)
MPN	E		A/N	0/1		The MPN code inserted in the offers submition