

# SOMMARIO

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## INTRODUZIONE

### SCOPO DEL DOCUMENTO

L'Applicazione PB-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 PB-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 *GMMMessage* (nello schema contenitore *GMBaseMessage*) che richiama gli xsd specifici di ogni transazione coinvolta nell'applicazione.

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

## GMBASEMESSAGE.XSD

```
<?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="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" />
    </complexType>
  </element>
  <attribute name="ReferenceTransactionCode" type="int" use="optional" />
  <element name="tyVersion" abstract="true" type="string" />
</schema>
```

## GMMESSAGE.XSD

```
<?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"
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" />
<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>

BASEMESSAGEYPES.XSD

```
<?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">

  <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>
</schema>
```

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

  <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>
</schema>
```



```
</simpleType>

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

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

```

        </restriction>
</simpleType>

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

<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 -->
        <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 -->

    <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="^[+-]?[0-9]{1,12}(\,[0-9]{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" />
    </restriction>
</simpleType>

```

```

        <enumeration value="ZonalMR" />
        <enumeration value="SessionResults" />
        <enumeration value="MarketPlayerResults" />
        <enumeration value="MarketPlayerInformations" />
        <enumeration value="MarketPlayerMarketEnablingInformation" />
        <enumeration value="OfferPointMarketEnablingInformation" />
        <enumeration value="OfferPointMarginsInformation" />
        <enumeration value="MarketPlayerMarginsInformation" />
        <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>
</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 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>
    <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 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 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="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 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="Notify" MessageDate="2011-09-
07" MessageTime="08:55:13.8351460+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>99999999</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <MBBN>
      <Date>2011-09-06</Date>
    </MBBN>
  </Transaction>
</Message>

```

```
<OfferId>590</OfferId>
<ProductName>MGAS</ProductName>
<ExecutionDetails>
  <SubmittedPrice>12,000</SubmittedPrice>
  <AwardedPrice>12,000</AwardedPrice>
  <Market>MBS</Market>
  <SubmittedQty>10,000</SubmittedQty>
  <AwardedQty>8,300</AwardedQty>
  <Status>Awarded</Status>
  <Purpose>A</Purpose>
</ExecutionDetails>
</MBBN>
</Transaction>
<Transaction>
  <MBBN>
    <Date>2011-09-06</Date>
    <OfferId>594</OfferId>
    <ProductName>MGAS</ProductName>
    <ExecutionDetails>
      <SubmittedPrice>12,000</SubmittedPrice>
      <AwardedPrice>12,000</AwardedPrice>
      <Market>MBS</Market>
      <SubmittedQty>10,00</SubmittedQty>
      <AwardedQty>8,300</AwardedQty>
      <RefusedQty>-10,000</RefusedQty>
      <Status>Awarded</Status>
      <Purpose>A</Purpose>
      <MPN>MARGIN VIOLATION GENERATED OFFER</MPN>
    </ExecutionDetails>
  </MBBN>
</Transaction>
<Transaction>
  <MBBN>
    <Date>2011-09-06</Date>
    <OfferId>598</OfferId>
    <ProductName>MGAS</ProductName>
    <ExecutionDetails>
      <SubmittedPrice>12,000</SubmittedPrice>
      <AwardedPrice>12,000</AwardedPrice>
      <Market>MBS</Market>
      <SubmittedQty>30,000</SubmittedQty>
      <AwardedQty>20,300</AwardedQty>
      <RefusedQty>4,000</RefusedQty>
      <Status>Awarded</Status>
      <Purpose>A</Purpose>
```

```

    <MPN>MARGIN VIOLATION</MPN>
  </ExecutionDetails>
</MBBN>
</Transaction>
</Message>

```

## MBBN.XSD

```

<?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" />
      <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>
```

## MBMR

```
<?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="2010-12-01" MessageTime="10:16:48.4291204+01:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>MK*</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <MR>
      <MarginalPrice>32,000</MarginalPrice>
      <MarginalQty>75,500</MarginalQty>
      <SellQty>163,300</SellQty>
      <BuyQty>141,800</BuyQty>
      <FlowDate>2011-11-16</FlowDate>
    </MR>
  </Transaction>
</Message>
```

## MBMR.XSD

```
<?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="MBMRs">
    <sequence>
      <element name="MarginalPrice" type="pd:tyPriceThreeDecimals" minOccurs="1" maxOccurs="1" />
      <element name="MarginalQty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
      <element name="SellQty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
      <element name="BuyQty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
    </sequence>
  </complexType>
</schema>
```

```
    <element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"></element>
  </sequence>
</complexType>
</schema>
```

## OFFERTE

### SOTTOMISSIONE DI UN'OFFERTA

```
<?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="2011-09-
16" MessageTime="09:07:03.9187565+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Offer OfferType="V">
      <ProductName>MGAS</ProductName>
      <Quantity>44,500</Quantity>
      <MBPrice>12,450</MBPrice>
      <ExpiryTime>9999-12-31</ExpiryTime>
      <MarketCode>MBS</MarketCode>
      <Notes />
      <Replacement>>false</Replacement>
      <FlowDate>2011-09-17</FlowDate>
      <StorageOperatorCode>88888888</StorageOperatorCode>
    </Offer>
  </Transaction>
  <Transaction>
    <Offer OfferType="A">
      <ProductName>MGAS</ProductName>
      <Quantity>14,500</Quantity>
      <MBPrice>10,150</MBPrice>
      <ExpiryTime>9999-12-31</ExpiryTime>
      <MarketCode>MBS</MarketCode>
    </Offer>
  </Transaction>
</Message>
```

```
<Notes />
<Replacement>true</Replacement>
<FlowDate>2011-09-17</FlowDate>
<StorageOperatorCode>88888888</StorageOperatorCode>
</Offer>
</Transaction>
</Message>
```

## *MODIFICA DI UN'OFFERTA*

```
<?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="2011-09-
16" MessageTime="09:07:03.9187565+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Offer OfferType="A" OffersId="635">
      <ProductName>MGAS</ProductName>
      <Quantity>14,500</Quantity>
      <MBPrice>9,150</MBPrice>
      <ExpiryTime>9999-12-31</ExpiryTime>
      <MarketCode>MBS</MarketCode>
      <Notes />
      <Replacement>false</Replacement>
      <FlowDate>2011-09-17</FlowDate>
      <StorageOperatorCode>88888888</StorageOperatorCode>
    </Offer>
  </Transaction>
</Message>
```

## *GMOFFER.XSD*

```

<?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" />
      <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="MTPPrice" 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>

```

## SOTTOMISSIONE DEI PREZZI DI DEFAULT

### SOTTOMISSIONE SIA DEL PREZZO DI VENDITA CHE DI ACQUISTO

```

<?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="2011-09-
16" MessageTime="09:56:19.9514999+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <DefaultPrices>
      <MarketPlayerCode>9999999</MarketPlayerCode>
      <StorageOperatorCode>88888888</StorageOperatorCode>
      <DefaultUpPrice>22,770</DefaultUpPrice>
      <DefaultDownPrice>11,540</DefaultDownPrice>
    </DefaultPrices>
  </Transaction>
</Message>
```

### *SOTTOMISSIONE DEL SOLO PREZZO DI VENDITA. IL PREZZO DI ACQUISTO VIENE REVOCATO*

```
<?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="2011-09-
16" MessageTime="09:56:19.9514999+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <DefaultPrices>
      <MarketPlayerCode>9999999</MarketPlayerCode>
      <StorageOperatorCode>88888888</StorageOperatorCode>
      <DefaultUpPrice>22,770</DefaultUpPrice>
    </DefaultPrices>
  </Transaction>
</Message>
```

### *REVOCA DI ENTRAMBI I PREZZI*

```

<?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="2011-09-
16" MessageTime="09:56:19.9514999+02:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>88888888</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <DefaultPrices>
      <MarketPlayerCode>9999999</MarketPlayerCode>
      <StorageOperatorCode>88888888</StorageOperatorCode>
    </DefaultPrices>
  </Transaction>
</Message>

```

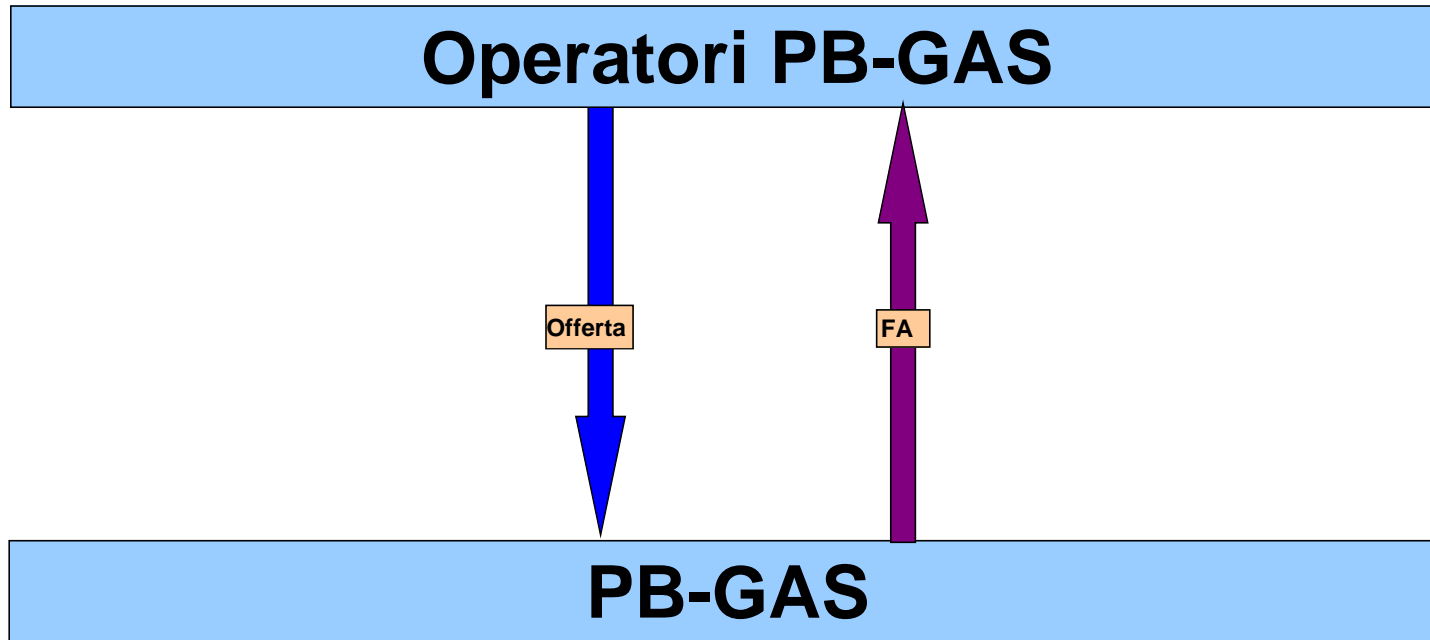
### *DEFAULTPRICES.XSD*

```

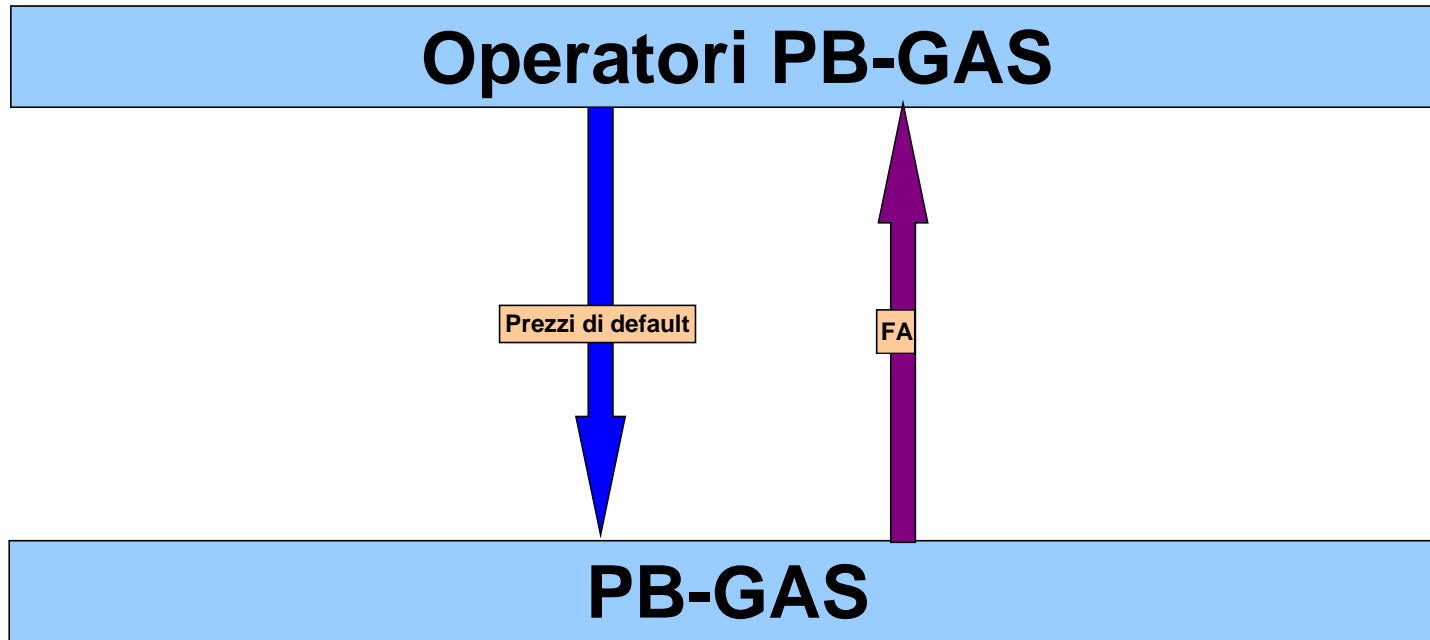
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:XML-GM" xmlns:pd="urn:XML-GM" elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <complexType name="DefaultPrices">
    <sequence>
      <element name="MarketPlayerCode" type="string" minOccurs="1" maxOccurs="1" ></element>
      <element name="StorageOperatorCode" type="string" minOccurs="1" maxOccurs="1" ></element>
      <element name="DefaultUpPrice" type="pd:tyPriceThreeDecimals" minOccurs="0" maxOccurs="1" nillable="true" ></element>
      <element name="DefaultDownPrice" type="pd:tyPriceThreeDecimals" minOccurs="0" maxOccurs="1" nillable="true" ></element>
    </sequence>
  </complexType>
</schema>

```

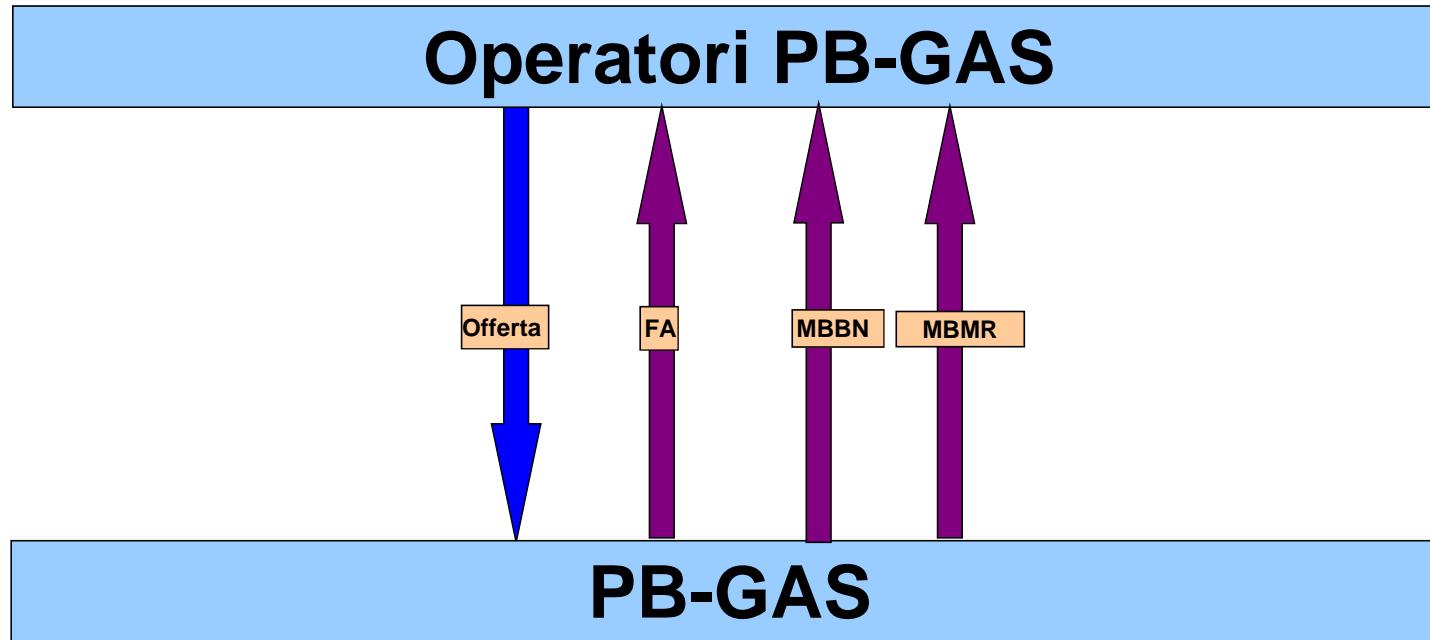
**Caso 1: Sottomissione offerta**



**Caso 2: Sottomissione dei prezzi di default**



**Caso 3: Sottomissione offerta, Chiusura ed esecuzione Mercato**



# Offer Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>						
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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
Offer	E	(see Offer data structure)		1/1		
<b>Offer</b>						
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	MGAS	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	999999999999,999	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	MBS	A/N	1/1		The market code the offer is referring to.
Notes	E		A/N	0/1		An operator's note.
Replacement	E	false,true	boolean	1/1		sets if an offer replaces the first submitted offer
StorageOperatorCode	E	PSV code		1/1	max =32	The PSV code of the storage operator.
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the session to which the offer is referring.

## Offer Change Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>						
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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
Offer	E	(see Offer data structure)		1/1		
<b>Offer</b>						
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	MGAS	A/N	1/1	max=32	The name of the product associated to the market
Quantity	E	Valid decimal number	999999999999,9	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	MBS	A/N	1/1		The market code the offer is referring to.
Notes	E		A/N	0/1		An operator's note.
Replacement	E	false,true	boolean	1/1		sets if an offer replaces the first submitted offer
StorageOperatorCode	E	PSV code		1/1	max =32	The PSV code of the storage operator.
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the session to which the offer is referring.

## Default Prices Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>						
		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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
DefaultPrices	E	(see DefaultPrices data structure)		1/1		
<b>DefaultPrices</b>						
MarketPlayerCode	A	PSV code		1/1	max =32	The code of the operator
StorageOperatorCode	E	PSV code		1/1	max =32	The PSV code of the storage operator.
DefaultUpPrice	E	Valid decimal number	99999999999,999	0/1		The default price for sell orders. If it is not specified (the element does not appear) the previous default price will be deleted.
DefaultDownPrice	E	Valid decimal number	99999999999,999	0/1		The default price for buy orders. If it is not specified (the element does not appear) the previous default price will be deleted.



# Functional Acknowledgment Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>						
		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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
FunctionalAcknowledgement	E	(see FunctionalAcknowledgement data structure)		1/1		
<b>FunctionalAcknowledgement</b>						
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		
<b>RejectInformation</b>						
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

# Market Result Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurances Min/Max	Field Length	Definition
<b>Message</b>						
xmlns:xsi	A	A/N	A/N	1 for file		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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
MBMR	E	(see MBMRs data structure)		1/1		
<b>MBMRs</b>						
MarginalPrice	E	Valid decimal number	99999999999,999	1/1		Marginal Price
MarginalQty	E	Valid decimal number	99999999999,999	1/1		Marginal Quantity
SellQty	E	Valid decimal number	99999999999,999	1/1		Sell quantity elaborated
BuyQty	E	Valid decimal number	99999999999,999	1/1		Buy quantity elaborated
FlowDate	E	Valid date	YYYY-MM-DD	1/1		The flow date of the market session

# Bid Notification Implementation Guide for PB-GAS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>						
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
<b>Header</b>						
Sender	E	(see Sender data structure)		1/1		message sender
Receiver	E	(see Receiver data structure)		1/1		message receiver
<b>Sender</b>						
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
<b>Receiver</b>						
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
<b>Transaction</b>						
MPN	A		A/N	0/1	max=32	External reference number
MBBN	E	(see MBBNs data structure)		1/1		
<b>MBBNs</b>						
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
ExecutionDetails	E	(see MBBNExecutionDetail data structure)				
<b>MBBNExecutionDetail</b>						
SubmittedPrice	E	Valid decimal number	99999999999,999	1/1		The original offer price
AwardedPrice	E	Valid decimal number	99999999999,999	0/1		The awarded offer price
Market	E	MBS	A/N	0/1		The market Identifier
SubmittedQty	E	Valid decimal number	99999999999,999	1/1		The initial offer quantity
AwardedQty	E	Valid decimal number	99999999999,999	0/1		The awarded quantity
RefusedQty	E	Valid decimal number	99999999999,999	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)
StorageOperatorCode	E		A/N	1/1		The PSV Code of the Storage Market Player associated with the offer.
MPN	E		A/N	0/1		The MPN code inserted in the offers submission