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INTRODUCTION

PURPOSE OF THE DOCUMENT

The PBS-GAS application provides different data in the form of xml files for download and upload. This document describes the transactions, in terms of formats, used within the above files.

APPLICABILITY

This document contains the Excel file describing the xml data exchange transactions supported by the PBS-GAS application.

FORMAT OF SCHEMAS

This Implementation Guide presents the XSDs for each type of transaction.

By adequately using the “include” instruction, you may obtain the *GMMessages* schema (in the *GMBaseMessage* container schema) with the specific XSDs for each transaction involved in the application.

Thus, the examples given in the following chapters show the XSD of each transaction and a complete example of 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" />
      <attribute name="ReferenceTransactionCode" type="int" use="optional" />
    </complexType>
  </element>
  <element name="tyVersion" abstract="true" type="string" />
</schema>
```

GMESSAGE.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>

<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="Zones" substitutionGroup="pd:TransactionDetail" type="pd:Zones" />
<element name="MarketPlayerSellLimitsInformation" substitutionGroup="pd:TransactionDetail" type="pd:MarketPlayerSellLimitsInformation" />

```

```
</schema>
```

BASEMESSAGETYPES.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>

<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>

<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="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>

<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 --> without thousand separator only integer without
decimals without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno --> without thousand separator with max 4
decimali without sign
    <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 --> without thousand separator only integer without
decimals without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno --> without thousand separator with max 4
decimali without sign
    <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 --> without thousand separator only integer without
decimals without sign
  <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno --> without thousand separator with max 3
decimals without sign
    <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 --> without decimal separator only integer without
decimals without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno --> without thousand separator with max 3
decimals without sign
    <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 --> without decimal separator only integer without
decimals without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 3 decimali senza segno --> without thousand separator with max 3
decimals without sign
    <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 --> without thousand separator only integer without
decimals without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 1 decimali senza segno --> without thousand separator with max 1
decimal without sign
    <pattern value="^\d{1,12}(,\d{1,1})?$/>
  </restriction>
</simpleType>

<simpleType name="tySignedQuantity">
  <restriction base="string">
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali senza segno --> without thousand separator only integer without
decimals without sign

```

```

<!-- 99999999,9999 ==> senza separatore migliaia con al massimo 1 decimali senza segno --> without thousand separator with max 1
decimal without sign
<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 --> without thousand separator only integer without
decimal without sign
    <!-- 99999999,9999 ==> senza separatore migliaia con al massimo 4 decimali senza segno --> without thousand separator with max 4
decimal without sign
      <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 --> with thousand separator only integer
without decimal with or without sign
    <!-- 99999999 ==> senza separatore migliaia solo intero senza decimali con o senza segno --> without thousand separator only integer
without decimal with or without sign
    <!-- 99.999.999,999 ==> con separatore migliaia con al massimo 3 decimali con o senza segno --> with thousand separator with max 3
decimal with or without sign
    <!-- 99999999,999 ==> senza separatore migliaia con al massimo 3 decimali con o senza segno --> without thousand separator with max 3
decimal with or without sign
      <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="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>
</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>
</schema>

```

XML TRANSACTIONS AVAILABLE FOR PARTICIPANTS

FUNCTIONAL ACKNOWLEDGMENT

POSITIVE FUNCTIONAL ACKNOWLEDGMENT

```

<?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>

```

NEGATIVE FUNCTIONAL ACKNOWLEDGMENT

```

<?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

```

<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>14,00</SubmittedPrice>
      <Market>PBZ3</Market>
      <SubmittedQty>0,0</SubmittedQty>
      <RefusedQty>1093,0</RefusedQty>
    </ExecutionDetails>
  </MBBN>
</Transaction>

```

```
<Status>Incongruous</Status>
<RejectInfo>The offer is incongruous due to margin overflow</RejectInfo>
<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>14,00</SubmittedPrice>
<Market>PBZ3</Market>
<SubmittedQty>3137,0</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>12,00</SubmittedPrice>
<Market>PBZ3</Market>
<SubmittedQty>178,0</SubmittedQty>
<RefusedQty>332,0</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>
<ExecutionDetails>
    <SubmittedPrice>3,00</SubmittedPrice>
    <AwardedPrice>3,00</AwardedPrice>
    <Market>PBZ3</Market>
    <SubmittedQty>4022,0</SubmittedQty>
    <AwardedQty>662,0</AwardedQty>
    <RefusedQty>603,0</RefusedQty>
    <Status>Awarded</Status>
    <Purpose>V</Purpose>
    <MPN>REDUCED QUANTITY FOR MARGIN OVERFLOW</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>

```

ZONALMR

```

<?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>3,0000</MarginalPrice>
        <MarginalBuyQuantity>662,0000</MarginalBuyQuantity>
        <MarginalSellQuantity>0,0000</MarginalSellQuantity>
        <InitialBuyQuantity>662,0000</InitialBuyQuantity>
        <InitialSellQuantity>0,0000</InitialSellQuantity>
      </ZoneResults>
    </ZonalMR>
  </Transaction>
</Message>

```

ZONALMR.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="ZonalMR">
  <sequence>
    <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>
```

BIDS/OFFERS

ENTRY OF A BID/OFFER

```
<?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</Quantity>
<PBZPrice>23</PBZPrice>
<ExpiryTime>2013-10-24</ExpiryTime>
<MarketCode>PBZ1</MarketCode>
<FlowDate>2013-10-25</FlowDate>
<OfferPointCode>45625787</OfferPointCode>
</Offer>
</Transaction>
<Transaction>
<Offer OfferType="A">
<ProductName>LOC-PROD</ProductName>
<Quantity>4000</Quantity>
<PBZPrice>24</PBZPrice>
<ExpiryTime>2013-10-24</ExpiryTime>
<MarketCode>PBZ1</MarketCode>
<FlowDate>2013-10-25</FlowDate>
<OfferPointCode>45625787</OfferPointCode>
</Offer>
</Transaction>
<Transaction>
<Offer OfferType="V">
<ProductName>TITLE-TRAN</ProductName>
<Quantity>2000</Quantity>
<PBZPrice>27</PBZPrice>
<ExpiryTime>2013-10-24</ExpiryTime>
<MarketCode>PBZ1</MarketCode>
<FlowDate>2013-10-25</FlowDate>
<ReferenceDate>2013-10-26</ReferenceDate >
<OfferPointCode>45345787</OfferPointCode>
</Offer>
</Transaction>
</Message>

```

CHANGE OF A BID/OFFER

```

<?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>
</Sender>
<Receiver>

```

```

<OperatorMsgCode>IDGME</OperatorMsgCode>
</Receiver>
</Header>
<Transaction>
  <Offer OffersId="74285" OfferType="A">
    <ProductName>LOC-PROD</ProductName>
    <Quantity>6000,0</Quantity>
    <PBZPrice>13,000</PBZPrice>
    <ExpiryTime>2013-10-24</ExpiryTime>
    <MarketCode>PBZ1</MarketCode>
    <FlowDate>2013-10-25</FlowDate>
    <OfferPointCode>123434345</OfferPointCode>
  </Offer>
</Transaction>
</Message>

```

SENDING OF A PREDEFINED BID/OFFER

```

<?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">
      <ProductName>LOC-PROD</ProductName>
      <Quantity>6500</Quantity>
      <PBZPrice>12</PBZPrice>
      <ExpiryTime>2013-10-24</ExpiryTime>
      <Predefined>true</Predefined>
      <MarketCode>PBZ1</MarketCode>
      <FlowDate>2013-10-24</FlowDate>
      <OfferPointCode>345674216</OfferPointCode>
    </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="int" minOccurs="1" maxOccurs="1"/>
      <element name="Quantity" type="pd:tyQuantity" minOccurs="1" maxOccurs="1" />
    </choice>
    <choice>
      <element name="Price" type="pd:tyPrice" minOccurs="0" maxOccurs="1" />
      <element name="MBPrice" type="pd:tyPriceTwoDecimals" 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:ty4len" use="required" />
  <attribute name="OfferMode" type="pd:tyMKOfferMode" use="optional" />
  <attribute name="OTCConfirmation" type="boolean" use="optional"/>
</complexType>
</schema>

```

REVOCATION OF A BID/OFFER

```

<?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>
  </OfferChangeStatus>
</Transaction>
</Message>
```

GMOFFERCHANGESTATUS.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="OffersChangeStatus">
    <sequence>
      <element name="Status" type="pd:ty1len" minOccurs="1" maxOccurs="1" />
    </sequence>
    <attribute name="OfferId" type="int" use="optional" default="1" />
  </complexType>
</schema>
```