

SOMMARIO

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INTRODUZIONE

SCOPO DEL DOCUMENTO

L'Applicazione M-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 M-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" />
  <attribute name="ReferenceTransactionCode" type="int" use="optional" />
</complexType>
</element>
<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="MR.xsd" />
<include schemaLocation="SessionResult.xsd" />
<include schemaLocation="MarketPlayerResult.xsd" />
<include schemaLocation="GMMarketPlayersAccount.xsd" />
<include schemaLocation="GMAccountActivity.xsd" />
<include schemaLocation="SNAMPSVItem.xsd" />
<include schemaLocation="GMMarketPlayerMarketInformation.xsd" />
<include schemaLocation="GMSettlementAction.xsd" />

<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="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="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="Account_Activity" substitutionGroup="pd:TransactionDetail" type="pd:AccountActivity" />
<element name="SNAM_PSVItem" substitutionGroup="pd:TransactionDetail" type="pd:SNAMPSVItem" />
<element name="MR" substitutionGroup="pd:TransactionDetail" type="pd:MRs" />
<element name="SettlementAction" substitutionGroup="pd:TransactionDetail" type="pd:SettlementAction"/>
</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>
```

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" />
  </Transaction>
  <Transaction>
    <FunctionalAcknowledgement TransactionType="Offers" Status="Accepted" XmlOrder="2" />
  </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"/>
  </complexType>
</schema>

```

BN

BN (SIA CON ESITI NEGATIVI CHE POSITIVI)

```
<?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="2010-12-01" MessageTime="10:16:48.4134939+01:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>9999999</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <BN>
      <Date>2010-12-01</Date>
      <OfferId>13606</OfferId>
      <ProductName>MGAS</ProductName>
      <ExecutionDetails>
        <SubmittedPrice>3,0000</SubmittedPrice>
        <Market>MMGP</Market>
        <SubmittedQty>12</SubmittedQty>
        <Status>Discarded</Status>
        <RejectInfo>Discarded</RejectInfo>
        <Purpose>A</Purpose>
      </ExecutionDetails>
    </BN>
  </Transaction>
  <Transaction>
    <BN>
      <Date>2010-12-01</Date>
      <OfferId>13607</OfferId>
      <ProductName>MGAS</ProductName>
      <ExecutionDetails>
        <SubmittedPrice>56,0000</SubmittedPrice>
        <AwardedPrice>32,0000</AwardedPrice>
        <Market>MMGP</Market>
        <SubmittedQty>11</SubmittedQty>
        <AwardedQty>11</AwardedQty>
        <Status>Awarded</Status>
      </ExecutionDetails>
    </BN>
  </Transaction>
</Message>
```

```

        <Purpose>A</Purpose>
    </ExecutionDetails>
</BN>
</Transaction>
<Transaction>
    <BN>
        <Date>2010-12-01</Date>
        <OfferId>13608</OfferId>
        <ProductName>MGAS</ProductName>
        <ExecutionDetails>
            <SubmittedPrice>45,0000</SubmittedPrice>
            <Market>MMGP</Market>
            <SubmittedQty>32</SubmittedQty>
            <Status>Discarded</Status>
            <RejectInfo>Discarded</RejectInfo>
            <Purpose>V</Purpose>
        </ExecutionDetails>
    </BN>
</Transaction>
<Transaction>
    <BN>
        <Date>2010-12-01</Date>
        <OfferId>13609</OfferId>
        <ProductName>MGAS</ProductName>
        <ExecutionDetails>
            <SubmittedPrice>21,0000</SubmittedPrice>
            <AwardedPrice>32,0000</AwardedPrice>
            <Market>MMGP</Market>
            <SubmittedQty>11</SubmittedQty>
            <AwardedQty>11</AwardedQty>
            <Status>Awarded</Status>
            <Purpose>V</Purpose>
        </ExecutionDetails>
    </BN>
</Transaction>
</Message>

```

BN.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="BNs">
  <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" />
    <choice>
      <element name="OffersDetails" type="pd:BNDetail" minOccurs="1" maxOccurs="unbounded" />
      <element name="ExecutionDetails" type="pd:BNExecutionDetail" minOccurs="1" maxOccurs="unbounded" />
    </choice>
  </sequence>
</complexType>
<complexType name="BNDetail">
  <sequence>
    <element name="Price" type="pd:tyPrice" minOccurs="1" maxOccurs="1" />
    <element name="Contracts" type="int" minOccurs="1" maxOccurs="1" />
  </sequence>
  <attribute name="OfferMatchId" type="int" use="optional" />
</complexType>
<complexType name="BNExecutionDetail">
  <sequence>
    <element name="SubmittedPrice" type="pd:tyPrice" minOccurs="1" maxOccurs="1" />
    <element name="AwardedPrice" type="pd:tyPrice" minOccurs="0" maxOccurs="1" />
    <element name="Market" type="string" minOccurs="0" maxOccurs="1"/>
    <element name="SubmittedQty" type="int" minOccurs="1" maxOccurs="1" />
    <element name="AwardedQty" type="int" 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="MPN" type="string" minOccurs="0" maxOccurs="1"/>
  </sequence>
</complexType>
</schema>

```

MR

```

<?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</MarginalQty>
    <SellQty>163</SellQty>
    <BuyQty>141</BuyQty>
  </MR>
</Transaction>
</Message>

```

MR.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="MRs">
    <sequence>
      <element name="MarginalPrice" type="pd:tyPrice" minOccurs="1" maxOccurs="1" />
      <element name="MarginalQty" type="int" minOccurs="1" maxOccurs="1" />
      <element name="SellQty" type="int" minOccurs="1" maxOccurs="1" />
      <element name="BuyQty" type="int" minOccurs="1" maxOccurs="1" />
    </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="2010-12-01" MessageTime="14:02:55.2320548+01:00" xmlns="urn:XML-GM">

```

```

<Header>
  <Sender>
    <OperatorMsgCode>9999999</OperatorMsgCode>
  </Sender>
  <Receiver>
    <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
  </Receiver>
</Header>
<Transaction>
  <Offer OfferType="V">
    <ProductName>MGAS</ProductName>
    <Contracts>12</Contracts>
    <Price>23</Price>
    <ExpiryTime>9999-12-31</ExpiryTime>
    <MarketCode>MMI</MarketCode>
    <Replacement>>false</Replacement>
    <FlowDate>2010-12-01</FlowDate>
  </Offer>
  <Offer OfferType="V">
    <ProductName>MGAS</ProductName>
    <Contracts>34</Contracts>
    <Price>22</Price>
    <ExpiryTime>9999-12-31</ExpiryTime>
    <MarketCode>MMI</MarketCode>
    <Replacement>>false</Replacement>
    <FlowDate>2010-12-01</FlowDate>
  </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="2010-12-01" MessageTime="14:02:55.2320548+01:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>99999</OperatorMsgCode>
    </Sender>
    <Receiver>

```

```

    <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
  </Receiver>
</Header>
<Transaction>
  <Offer OfferType="V" OffersId="13610">
    <ProductName>MGAS</ProductName>
    <Contracts>15</Contracts>
    <Price>15</Price>
    <ExpiryTime>9999-12-31</ExpiryTime>
    <MarketCode>MMI</MarketCode>
    <Replacement>>false</Replacement>
    <FlowDate>2010-12-01</FlowDate>
  </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" />
      <element name="Contracts" type="int" minOccurs="1" maxOccurs="1" />
      <element name="Price" type="pd:tyPrice" minOccurs="0" maxOccurs="1" />
      <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="1" 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="1" maxOccurs="1"/>
    </sequence>
    <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" />
  </complexType>
</schema>

```

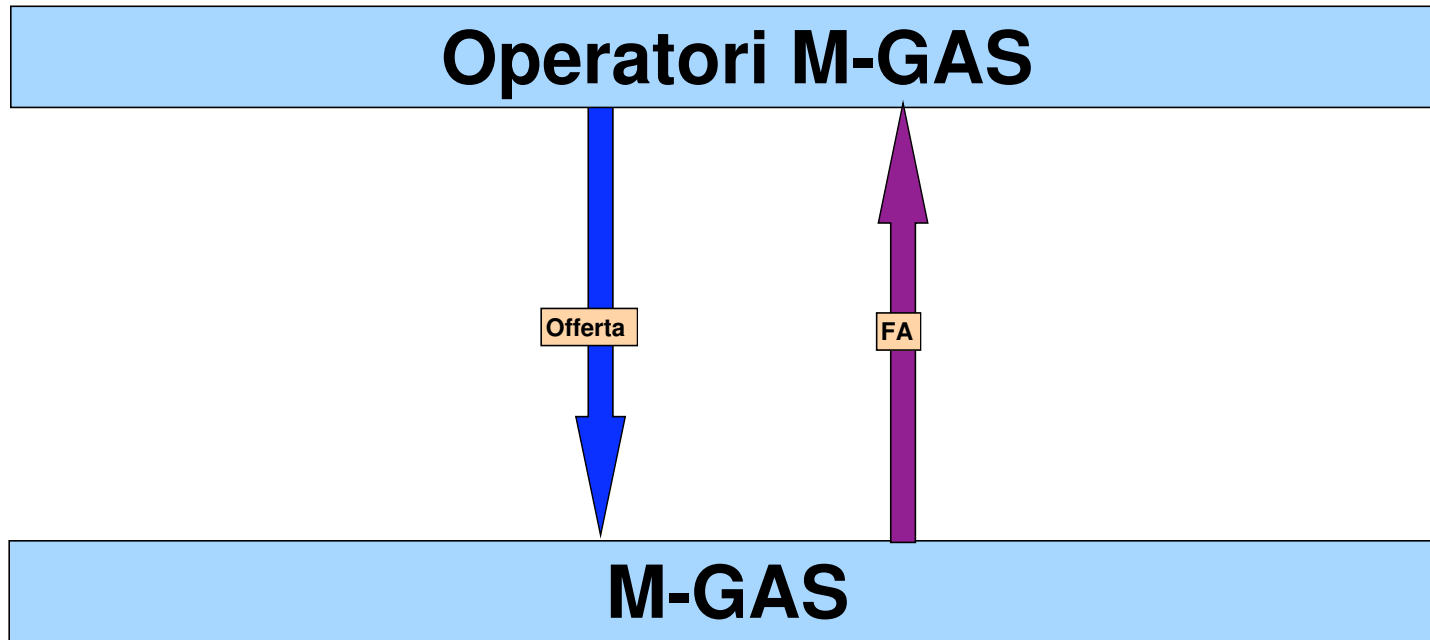
CAMBIAMENTO DI STATO DI UN'OFFERTA

```
<?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="2010-12-01" MessageTime="14:35:18.6178847+01:00" xmlns="urn:XML-GM">
  <Header>
    <Sender>
      <OperatorMsgCode>999999</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGMEGAS</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <OfferChangeStatus OfferId="13610">
      <Status>S</Status>
    </OfferChangeStatus>
  </Transaction>
</Message>
```

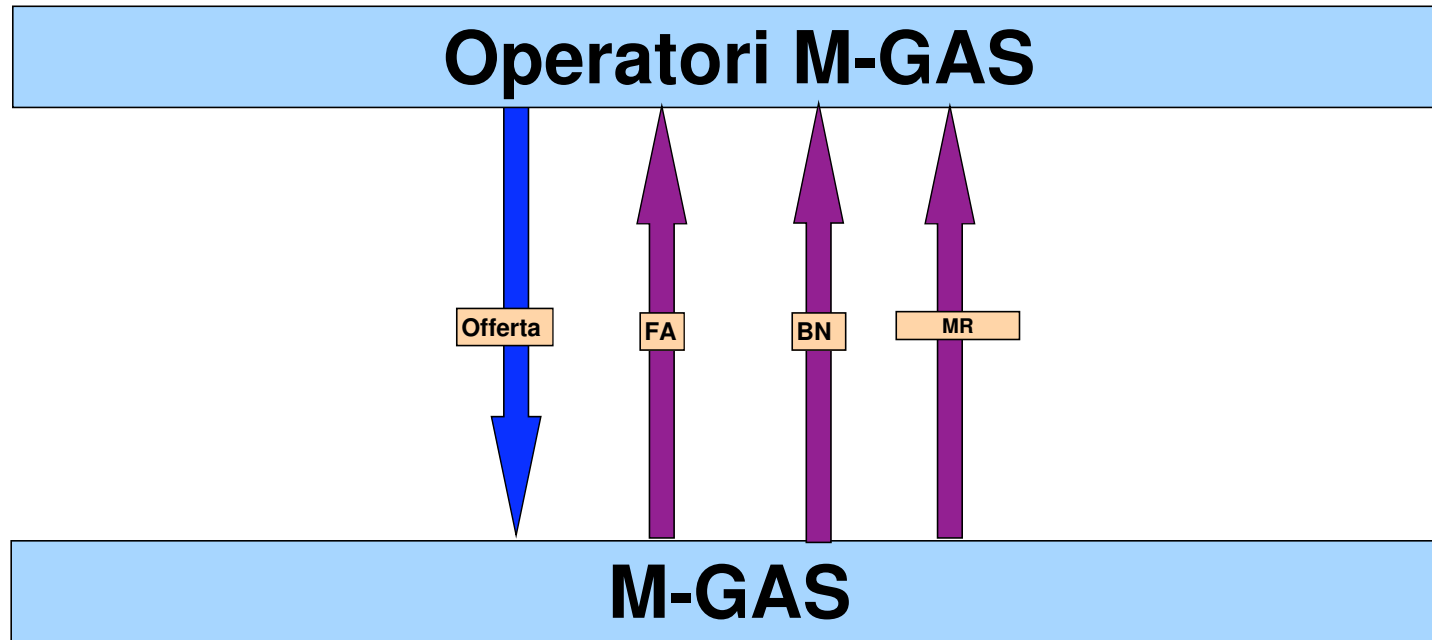
GMOFFERCHANGESTATUS.XSD

```
<?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:tyllen" minOccurs="1" maxOccurs="1" />
    </sequence>
    <attribute name="OfferId" type="int" use="optional" default="1" />
  </complexType>
</schema>
```

Caso 1: Sottomissione offerta



Caso 2: Sottomissione offerta, Chiusura ed esecuzione Mercato



Offer Implementation Guide for M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|---------------------------|---------------------|--|-------------------|---------------------|--------------|---|
| Message | | | | | | |
| | | A/N | A/N | 1 for file | | |
| xmlns:xsi | A | | | | | Defines the schema instance being used. |
| xmlns:xsd | A | | | | | Associates the actual schema instance being used to the name space. |
| xmlns | A | | | | | |
| MessageType | A | Request | | 0/1 | | Message type |
| MessageDate | A | Valid date | YYYY-MM-DD | 1/1 | | Date of the message |
| MessageTime | A | | | 0/1 | | Time of the message |
| Header | E | (see Header data structure) | | 1/1 | | Contains the sender and the recipient of the message |
| Transaction | E | (see Transaction data structure) | | 1 or more | | Transaction Container |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| Offer | E | (see Offer data structure) | | 1/1 | | |
| Offer | | | | | | |
| VendorCode | A | PSV code | | 0/1 | max =32 | The code of the vendor operator (only P-GAS) |
| 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 M-GAS markets |
| Contracts | E | | integer | 1/1 | | The quantity |
| Price | E | Valid decimal number | 999999999999,9999 | 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 | MMI, MMGP | 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 |
| 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 M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|---------------------------|---------------------|--|-------------------|---------------------|--------------|---|
| Message | | | | | | |
| | | A/N | A/N | 1 for file | | |
| xmlns:xsi | A | | | | | Defines the schema instance being used. |
| xmlns:xsd | A | | | | | Associates the actual schema instance being used to the name space. |
| xmlns | A | | | | | |
| MessageType | A | Request | | 0/1 | | Message type |
| MessageDate | A | Valid date | YYYY-MM-DD | 1/1 | | Date of the message |
| MessageTime | A | | | 0/1 | | Time of the message |
| Header | E | (see Header data structure) | | 1/1 | | Contains the sender and the recipient of the message |
| Transaction | E | (see Transaction data structure) | | 1 or more | | Transaction Container |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| Offer | E | (see Offer data structure) | | 1/1 | | |
| Offer | | | | | | |
| OffersId | A | | integer | 1/1 | | The id of the offer |
| VendorCode | A | PSV code | | 1/1 | max =32 | The code of the vendor operator (only P-GAS) |
| 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 M-GAS markets |
| Contracts | E | | integer | 1/1 | | The quantity |
| Price | E | Valid decimal number | 999999999999,9999 | 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 | MMI, MMGP | 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 |
| FlowDate | E | Valid date | YYYY-MM-DD | 1/1 | | The flow date of the session to which the offer is referring. |

Offer Change Status Implementation Guide for M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|---------------------------|---------------------|--|------------|---------------------|--------------|---|
| Message | | | | | | |
| | | A/N | A/N | 1 for file | | |
| xmlns:xsi | A | | | | | Defines the schema instance being used. |
| xmlns:xsd | A | | | | | Associates the actual schema instance being used to the name space. |
| xmlns | A | | | | | |
| MessageType | A | Request | | 0/1 | | Message type |
| MessageDate | A | Valid date | YYYY-MM-DD | 1/1 | | Date of the message |
| MessageTime | A | | | 0/1 | | Time of the message |
| Header | E | (see Header data structure) | | 1/1 | | Contains the sender and the recipient of the message |
| Transaction | E | (see Transaction data structure) | | 1 or more | | Transaction Container |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| OffersChangeStatus | E | (see Offer Change Status data structure) | | 1/1 | | |
| OffersChangeStatus | | | | | | |
| OfferId | A | | integer | 1/1 | | The id of the offer being changed |
| Status | E | R,H,S | A/N | 1/1 | max=3 | The new status of the offer. There are two scenarios: during the MGP market phase, the allowed Status is just R; during the continuous trading phase in MGP and MI, the following values are allowed: R (revoked), H (hidden), S (Shown). |

Functional Acknowledgment Implementation Guide for M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|----------------------------------|---------------------|--|------------|---------------------|--------------|---|
| Message | | | | | | |
| xmlns:xsi | A | | 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 |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| FunctionalAcknowledgement | E | (see FunctionalAcknowledgement data structure) | | 1/1 | | |
| FunctionalAcknowledgement | | | | | | |
| TransactionType | A | | A/N | 0/1 | | The type of transaction the FA is referring to. |
| Status | A | Accepted, Rejected | A/N | 1/1 | | The outcome of the transaction |
| MPN | A | | A/N | 0/1 | | External reference number |
| XmlOrder | A | | integer | 1/1 | | The xml order |
| RejectInformation | E | (see RejectInformation data structure) | | 1 or more | | |
| RejectInformation | | | | | | |
| Reason | E | | A/N | 1/1 | max=32 | The short description of the rejection |
| ReasonText | E | | A/N | 0/1 | max=1024 | The extended description of the rejection |

Market Result Implementation Guide for M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|---------------------------|---------------------|--|-------------------|---------------------|--------------|---|
| Message | | | | | | |
| | | A/N | A/N | 1 for file | | |
| xmlns:xsi | A | | | | | Defines the schema instance being used. |
| xmlns:xsd | A | | | | | Associates the actual schema instance being used to the name space. |
| xmlns | A | | | | | |
| MessageType | A | Request | | 0/1 | | Message type |
| MessageDate | A | Valid date | YYYY-MM-DD | 1/1 | | Date of the message |
| MessageTime | A | | | 0/1 | | Time of the message |
| Header | E | (see Header data structure) | | 1/1 | | Contains the sender and the recipient of the message |
| Transaction | E | (see Transaction data structure) | | 1 or more | | Transaction Container |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| MR | E | (see MRs data structure) | | 1/1 | | |
| MRs | | | | | | |
| MarginalPrice | E | Valid decimal number | 999999999999,9999 | 1/1 | | Marginal Price |
| MarginalQty | E | | integer | 1/1 | | Marginal Quantity |
| SellQty | E | | integer | 1/1 | | Sell quantity elaborated |
| BuyQty | E | | integer | 1/1 | | Buy quantity elaborated |

Bid Notification Implementation Guide for M-GAS

| Element / Attribute names | Attribute / Element | Valid Information in Field (enumeration) | Data Type | Occurrences Min/Max | Field Length | Definition |
|---------------------------|---------------------|--|-------------------|---------------------|--------------|---|
| Message | | | | | | |
| | | A/N | A/N | 1 for file | | |
| xmlns:xsi | A | | | | | Defines the schema instance being used. |
| xmlns:xsd | A | | | | | Associates the actual schema instance being used to the name space. |
| xmlns | A | | | | | |
| MessageType | A | Request | | 0/1 | | Message type |
| MessageDate | A | Valid date | YYYY-MM-DD | 1/1 | | Date of the message |
| MessageTime | A | | | 0/1 | | Time of the message |
| Header | E | (see Header data structure) | | 1/1 | | Contains the sender and the recipient of the message |
| Transaction | E | (see Transaction data structure) | | 1 or more | | Transaction Container |
| Header | | | | | | |
| Sender | E | (see Sender data structure) | | 1/1 | | message sender |
| Receiver | E | (see Receiver data structure) | | 1/1 | | message receiver |
| Sender | | | | | | |
| OperatorMsgCode | E | IDGMEGAS | A/N | 1/1 | max=16 | The unique identifier of the Sender |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Sender |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who sends |
| Receiver | | | | | | |
| OperatorMsgCode | E | | A/N | 1/1 | max=16 | The unique identifier of the Receiver |
| CompanyName | E | | A/N | 0/1 | max=60 | The Name of the Receiver |
| UserMsgCode | E | | A/N | 0/1 | max=50 | The unique identifier for the user who receives |
| Transaction | | | | | | |
| MPN | A | | A/N | 0/1 | max=32 | External reference number |
| BN | E | (see BNs data structure) | | 1/1 | | |
| BNs | | | | | | |
| 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 BNExecutionDetail data structure) | | | | |
| BNExecutionDetail | | | | | | |
| SubmittedPrice | E | Valid decimal number | 999999999999,9999 | 1/1 | | The original offer price |
| AwardedPrice | E | Valid decimal number | 999999999999,9999 | 0/1 | | The awarded offer price |
| Market | E | MMI, MMGP | A/N | 0/1 | | The M-Gas Identifier |
| SubmittedQty | E | | int | 1/1 | | The initial offer quantity |
| AwardedQty | E | | int | 0/1 | | The awarded quantity |
| Status | E | V, I, D | A/N | 1/1 | | The status of offer |
| RejectInfo | E | | A/N | 0 or more | | The reasons of the rejection |
| Purpose | E | A, V | A/N | 1/1 | | Specify if the offer is sell (V) or buy (A) |
| MPN | E | | A/N | 0/1 | | The MPN code inserted in the offers submission |