

**MERCATO XBID**

**APPLICAZIONE LTS\_NS**

*Implementation Guide (ESEMPI E FILE SCHEMA)*

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## 1 TRANSAZIONI XML MESSE A DISPOSIZIONE DEGLI OPERATORI

### 1.1 LTSAwardWarranty

```
<?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="2020-12-17"
MessageTime="08:53:22.7693134Z" xmlns="urn:XML-LTS">
```

```
<Header>
```

```
<Sender>
```

```
<CompanyName>Operatore_1.</CompanyName>
```

```
<UserMsgCode>USER_1</UserMsgCode>
```

```
<OperatorMsgCode>OEXXXXX</OperatorMsgCode>
```

```
</Sender>
```

```
<Receiver>
```

```
<OperatorMsgCode>IDGME</OperatorMsgCode>
```

```
</Receiver>
```

```
</Header>
```

```
<Transaction>
```

```
<AwardWarranty>
```

```
<OperatorCode>OEXXXXX</OperatorCode>
```

```
<TradingDate>2020-12-17</TradingDate>
```

```
<FlowDate>2020-12-17</FlowDate>
```

```
<Amount>1000</Amount>
```

```
</AwardWarranty>
```

```
</Transaction>
```

```
</Message>
```

## 1.2 BidSubmittal

```
<?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="2020-12-17"
MessageTime="09:50:39.9419732Z" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <CompanyName>Operatore_1.</CompanyName>
      <UserMsgCode>USER_1</UserMsgCode>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Offer>
      <OperatorCode>OEXXXXX</OperatorCode>
      <FlowDate>2020-12-17</FlowDate>
      <ZoneCode>CNOR</ZoneCode>
      <Interval>16</Interval>
      <Purpose>S</Purpose>
      <Status>A</Status>
      <Mode>NON</Mode>
      <ExpiryTime>2020-12-17T23:00:00Z</ExpiryTime>
      <Qty>1</Qty>
      <Price>1</Price>
    </Offer>
  </Transaction>
</Message>
```

### 1.3 BidSubmittal (Basket)

```
<?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="2020-12-21"
MessageTime="15:06:46.2078842Z" xmlns="urn:XML-LTS">
```

```
<Header>
```

```
<Sender>
```

```
<CompanyName>Operator_1.</CompanyName>
```

```
<UserMsgCode>USER_1</UserMsgCode>
```

```
<OperatorMsgCode>OEXXXXX</OperatorMsgCode>
```

```
</Sender>
```

```
<Receiver>
```

```
<OperatorMsgCode>IDGME</OperatorMsgCode>
```

```
</Receiver>
```

```
</Header>
```

```
<Transaction>
```

```
<OffersBasket>
```

```
<Execution>None</Execution>
```

```
<Offers>
```

```
<Offers>
```

```
<OperatorCode>OEXXXXX</OperatorCode>
```

```
<FlowDate>2020-12-21</FlowDate>
```

```
<ZoneCode>CNOR</ZoneCode>
```

```
<Interval>20</Interval>
```

```
<Purpose>S</Purpose>
```

```
<Status>A</Status>
```

```
<Mode>NON</Mode>
```

```
<ExpiryTime>2020-12-21T23:00:00Z</ExpiryTime>
```

```
<Qty>176</Qty>
```

```
<Price>39</Price>
```

```
</Offers>
```

```
<Offers>
```

```
<OperatorCode>OEXXXXX</OperatorCode>
```

```
<FlowDate>2020-12-21</FlowDate>
```

```
<ZoneCode>CNOR</ZoneCode>
```

```
<Interval>1</Interval>
```

<Purpose>S</Purpose>  
<Status>A</Status>  
<Mode>NON</Mode>  
<ExpiryTime>2020-12-21T23:00:00Z</ExpiryTime>  
<Qty>1</Qty>  
<Price>1</Price>  
</Offers>  
</Offers>  
</OffersBasket>  
</Transaction>  
</Message>

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## 1.4 OfferManagement

```
<?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" MessageTypes="Request" MessageDate="2020-12-17"
  MessageTime="11:41:43.4604890Z" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <CompanyName>Operatore_1.</CompanyName>
      <UserMsgCode>USER_1</UserMsgCode>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <OfferManagement>
      <OfferId>1647</OfferId>
      <Operation>Revoke</Operation>
    </OfferManagement>
  </Transaction>
</Message>
```

## 1.5 Program

```
<?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="2020-12-18"
MessageTime="10:03:32.5238038Z" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <CompanyName>Operatore_1.</CompanyName>
      <UserMsgCode>USER_1</UserMsgCode>
      <OperatorMsgCode>OEXXXXX</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <Program>
      <OperatorCode>OEXXXXX</OperatorCode>
      <FlowDate>2020-12-18</FlowDate>
      <UnitId>UP_UNIT_1</UnitId>
      <Interval>24</Interval>
      <Direction>I</Direction>
      <OperationType>SUB</OperationType>
      <Qty>1</Qty>
    </Program>
  </Transaction>
</Message>
```



## 1.6 Functional Acknowledgement 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="2020-12-17"
MessageTime="13:49:25.0591821Z" ResponseMessageStatus="Accepted" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <FunctionalAcknowledgement TransactionType="Offer" Status="Accepted" XmlOrder="1" RefId="1657"
  />
  </Transaction>
</Message>
```

## 1.7 Functional Acknowledgement 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="2020-12-17"
MessageTime="10:40:10.3421643Z" ResponseMessageStatus="Rejected" xmlns="urn:XML-LTS">
  <Header>
    <Sender>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Sender>
    <Receiver>
      <OperatorMsgCode>IDGME</OperatorMsgCode>
    </Receiver>
  </Header>
  <Transaction>
    <FunctionalAcknowledgement TransactionType="Offer" Status="Rejected" XmlOrder="1" RefId="1646">
      <RejectInformation>
        <Reason>OF13.1</Reason>
        <ReasonText>Margin Up exceeded for unit UP_UNIT_1, margin available [50,000], submitted [300],
offer cannot be accepted.</ReasonText>
      </RejectInformation>
    </FunctionalAcknowledgement>
  </Transaction>
</Message>
```

## 2 FILE SCHEMA

### 2.1 LTSAwardWarranty

```
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-LTS" xmlns:pd="urn:XML-LTS"
  elementFormDefault="qualified">
<include schemaLocation="Types.xsd" />
<complexType name="AwardWarranty">
  <sequence>
    <element name="OperatorCode" type="pd:ty16len" minOccurs="1" maxOccurs="1"/>
    <element name="TradingDate" type="date" minOccurs="1" maxOccurs="1"/>
    <element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"/>
    <element name="Amount" type="pd:tyAmount" minOccurs="1" maxOccurs="1"/>
  </sequence>
</complexType>
</schema>
```

## 2.2 LTSOffer

```
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-LTS" xmlns:pd="urn:XML-LTS"
  elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <include schemaLocation="LTSTypes.xsd" />
  <complexType name="Offer">
    <sequence>
      <element name="OfferId" type="long" minOccurs="0" maxOccurs="1"/>
      <element name="OperatorCode" type="pd:ty16len" minOccurs="1" maxOccurs="1"/>
      <element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"/>
      <element name="ZoneCode" type="pd:ty8len" minOccurs="1" maxOccurs="1"/>
      <element name="UnitId" type="pd:ty16len" minOccurs="0" maxOccurs="1"/>
      <element name="Interval" type="pd:tyHourIntervalType" minOccurs="1" maxOccurs="1"/>
      <element name="Purpose" type="pd:tyOfferPurpose" minOccurs="1" maxOccurs="1"/>
      <element name="Status" type="pd:tyOfferStatus" minOccurs="1" maxOccurs="1"/>
      <element name="Execution" type="pd:tyOfferExecution" minOccurs="0" maxOccurs="1"
default="Normal"/>
      <element name="Mode" type="pd:tyOfferMode" minOccurs="0" maxOccurs="1" default="GFS"/>
      <element name="ExpiryTime" type="dateTime" minOccurs="0" maxOccurs="1"/>
      <element name="Qty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"/>
      <element name="Price" minOccurs="0" maxOccurs="1" type="pd:tyPriceSignedThreeDecimals"/>
      <element name="Iceberg" minOccurs="0" maxOccurs="1" type="pd:Iceberg"/>
    </sequence>
  </complexType>
  <complexType name="Iceberg">
    <sequence>
      <element name="HiddenQty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"/>
      <element name="DeltaPrice" minOccurs="1" maxOccurs="1" type="pd:tyPriceSignedTwoDecimals"/>
    </sequence>
  </complexType>
</schema>
```

## 2.3 LTSOfferBasket

```
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-LTS" xmlns:pd="urn:XML-LTS"
  elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <include schemaLocation="LTSTypes.xsd" />
  <include schemaLocation="LTSOffer.xsd" />
  <complexType name="OffersBasket">
    <sequence>
      <element name="BasketId" type="int" minOccurs="0" maxOccurs="1"/>
      <element name="Execution" type="pd:tyOfferBasketExecution" minOccurs="1" maxOccurs="1"
default="None"/>
      <element name="Offers" minOccurs="1" maxOccurs="1" >
        <complexType>
          <sequence>
            <element name="Offers" type="pd:Offer" minOccurs="1" maxOccurs="unbounded"/>
          </sequence>
        </complexType>
      </element>
    </sequence>
  </complexType>
</schema>
```

## 2.4 LTSOfferManagement

```
<?xml version="1.0" encoding="iso-8859-1"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-LTS" xmlns:pd="urn:XML-LTS"
  elementFormDefault="qualified">
  <include schemaLocation="Types.xsd" />
  <include schemaLocation="LTSTypes.xsd" />
  <complexType name="OfferManagement">
    <sequence>
      <!-- Id dell'offerta che si sta modificando -->
      <element name="OfferId" type="long" minOccurs="1" maxOccurs="1"/>
      <element name="Operation" type="pd:tyOfferManagementOperation" minOccurs="1"
maxOccurs="1"/>
      <!-- Valorizzati se Operazione è Edit -->
      <element name="Qty" type="pd:tyQuantity" minOccurs="0" maxOccurs="1"/>
      <element name="Price" type="pd:tyPriceSignedThreeDecimals" minOccurs="0" maxOccurs="1"/>
      <element name="HiddenQty" type="pd:tyQuantity" minOccurs="0" maxOccurs="1"/>
      <element name="DeltaPrice" type="pd:tyPriceSignedTwoDecimals" minOccurs="0"
maxOccurs="1"/>
    </sequence>
  </complexType>
</schema>
```

## 2.5 LTSProgram

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

<complexType name="Program">
<sequence>
  <element name="OperatorCode" type="pd:ty16len" minOccurs="1" maxOccurs="1"/>
  <element name="FlowDate" type="date" minOccurs="1" maxOccurs="1"/>
  <element name="UnitId" type="pd:ty16len" minOccurs="1" maxOccurs="1"/>
  <element name="Interval" type="pd:tyHourIntervalType" minOccurs="1" maxOccurs="1"/>
  <element name="Direction" type="pd:tyProgramDirection" minOccurs="1" maxOccurs="1"/>
  <element name="OperationType" type="pd:tyProgramOperationType" minOccurs="1"
maxOccurs="1"/>
  <element name="Qty" type="pd:tyQuantity" minOccurs="1" maxOccurs="1"/>
</sequence>
</complexType>
</schema>
```

## 2.6 LTSFunctionalAcknowledgment

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<schema
  xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="urn:XML-LTS"
  xmlns:pd="urn:XML-LTS"
  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="long" use="optional"></attribute>
  </complexType>
</schema>
```