

**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 – Offer submission)

```
<?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>

---

#### 1.4 BidSubmittal (Basket – Offer modification)

```
<?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>
        <OffersManagement>
          <OfferId>1094677</OfferId>
          <Operation>Edit</Operation>
          <Qty>62,0</Qty>
          <Price>38,0</Price>
        </OffersManagement>
        <OffersManagement>
          <OfferId>1094814</OfferId>
          <Operation>Edit</Operation>
          <Qty>27,0</Qty>
          <Price>36,0</Price>
        </OffersManagement>
      </Offers>
    </OffersBasket>
  </Transaction>
</Message>
```

---

## 1.5 BidSubmittal (Basket – Offer change status)

```
<?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>
```

```
<OffersManagement>
```

```
<OfferId>1129294</OfferId>
```

```
<Operation>Discover</Operation>
```

```
</OffersManagement>
```

```
<OffersManagement>
```

```
<OfferId>1129295</OfferId>
```

```
<Operation>Discover</Operation>
```

```
</OffersManagement>
```

```
</Offers>
```

```
</OffersBasket>
```

```
</Transaction>
```

```
</Message>
```

---



## 1.6 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" MessageDate="2020-12-17"
  MessageType="Request" 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>
```

---

## 1.7 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>
```

---

## 1.8 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>
```

---

## 1.9 Functional Acknowledgement Negative

```
<?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" />
  <include schemaLocation="LTSOfferManagement.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="0" maxOccurs="1" >
        <complexType>
          <sequence>
            <element name="Offers" type="pd:Offer" minOccurs="0" maxOccurs="unbounded"/>
            <element name="OffersManagement"
type="pd:OfferManagement" minOccurs="0" 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>
```

---

## FunctionalAcknowledgement Implementation Guide for LTS\_NS

Element / Attribute names	Attribute / Element	Valid Information in Field (enumeration)	Data Type	Occurrences Min/Max	Field Length	Definition
<b>Message</b>		N/A	N/A	1 for file	N/A	
Version	A	1.0	N/A	1/1	N/A	Identifies the version of the LtsMessageSchema
Encoding	A	iso-8859-1	N/A	1/1	N/A	
xmlns:xsi	A	http://www.w3.org/2001/XMLSchema-instance	N/A	1/1	N/A	Associates the actual schema instance being used to the name space.
xmlns:xsd	A	http://www.w3.org/2001/XMLSchema	N/A	1/1	N/A	Defines the schema instance being used.
MessageType	A	Response	N/A	1/1	N/A	Message Type
MessageDate	A	Valid Date	YYYY-MM-DD	1/1	N/A	Date of the message
MessageTime	A	Valid Time Stamp	HH:MM:SS.1234567Z	1/1	N/A	Time of the message
ResponseMessageStatus		Accepted/Rejected		1/1	N/A	
xmlns	A	urn:XML-LTS	N/A	1/1	N/A	identifies the xml namespace
Header	E	(see Header data structure)	N/A	1/1	N/A	Sender and recipient of the message
Transaction	E	(see Transaction data structure)	N/A	1 or more	N/A	Transaction Container
ResponseReferenceMessageCode	A					
ResponseMessageStatus	A		Accepted/Rejected/PartiallyAccepted			In the CeFunctionalAcknowledgment transaction indicates: 1. If the document is accepted (Accept) which means that all the transactions in the document have passed validation, partially accepted (Partial) which means that at least one transaction has been rejected, or rejected (Reject) which means that all the transaction have been rejected. 2. That a single transaction has been accepted or rejected.
<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	(IDGME)	A/N	1/1	min=1 max=16	The unique identifier of the Sender
<b>Receiver</b>						
<b>Transaction</b>				1 or more		
FunctionalAcknowledgement						
RejectInformation						
<b>FunctionalAcknowledgement</b>			N/A		N/A	
pd:RejectInformation	E	(see RejectInformation data structure)		0 or more		
TransactionType	A		string	optional		
Status	A	pd:tyTransactionStatus	boolean	required		
MPN	A		string	optional		
XmlOrder	A		int	required		
RefId*	A		long	optional		
<b>RejectInformation</b>			N/A		N/A	
Reason	E		string		min=0 max=32	
ReasonText	E		string	0/1	min=0 max=1024	