steelXML

The Common XML Schema for the Electronic Procurement of Structural Steel

Volume 4. Request for Quotation

Version 1.0

American Institute of Steel Construction

Georgia Institute of Technology

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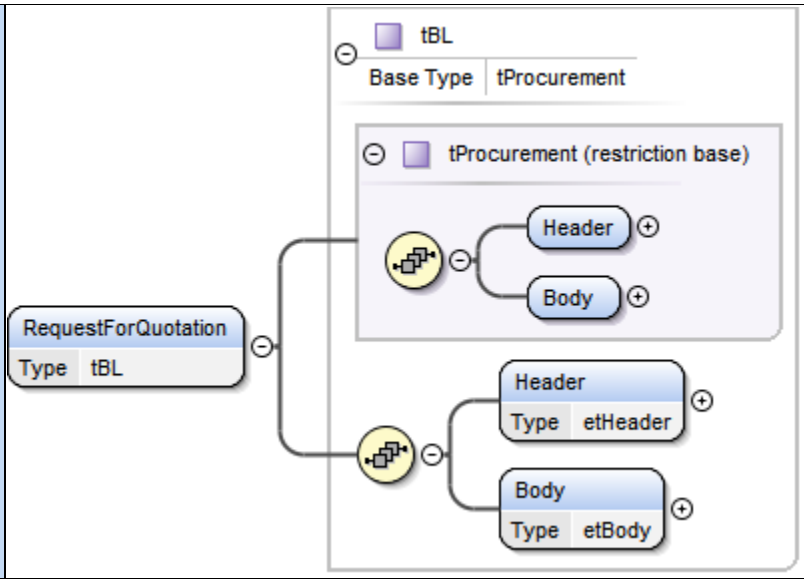
1 Overview

This document describes Request for Quotation Send and Request for Quotation Respond Schema.

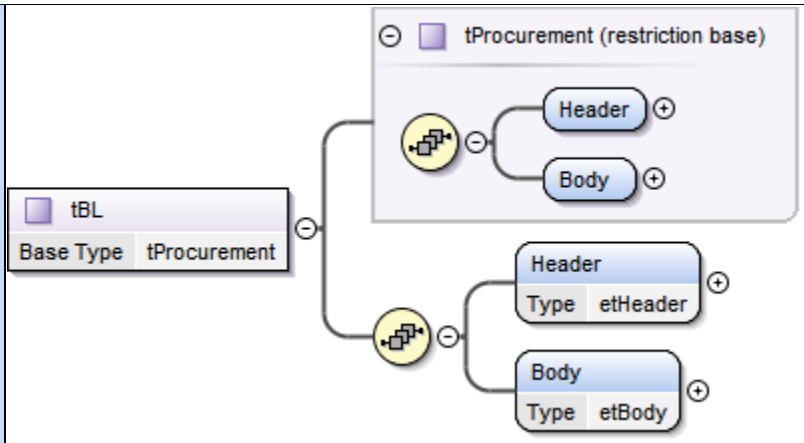
2 Element in Request for Quotation Send

2.1 RequestForQuotation

Diagram	
Type	**tBL**
Type hierarchy	**tProcurement** **tBL**
Properties	content: **complex**
Model	**Header** , **Body**
Instance	<RequestForQuotation xmlns="AISCProcurement"> <Header>{1,1}</Header> <Body>{1,1}</Body> </RequestForQuotation>
Source	<xs:element name="RequestForQuotation" type="tBL"/>

3 Complex Types in Request for Quotation Send

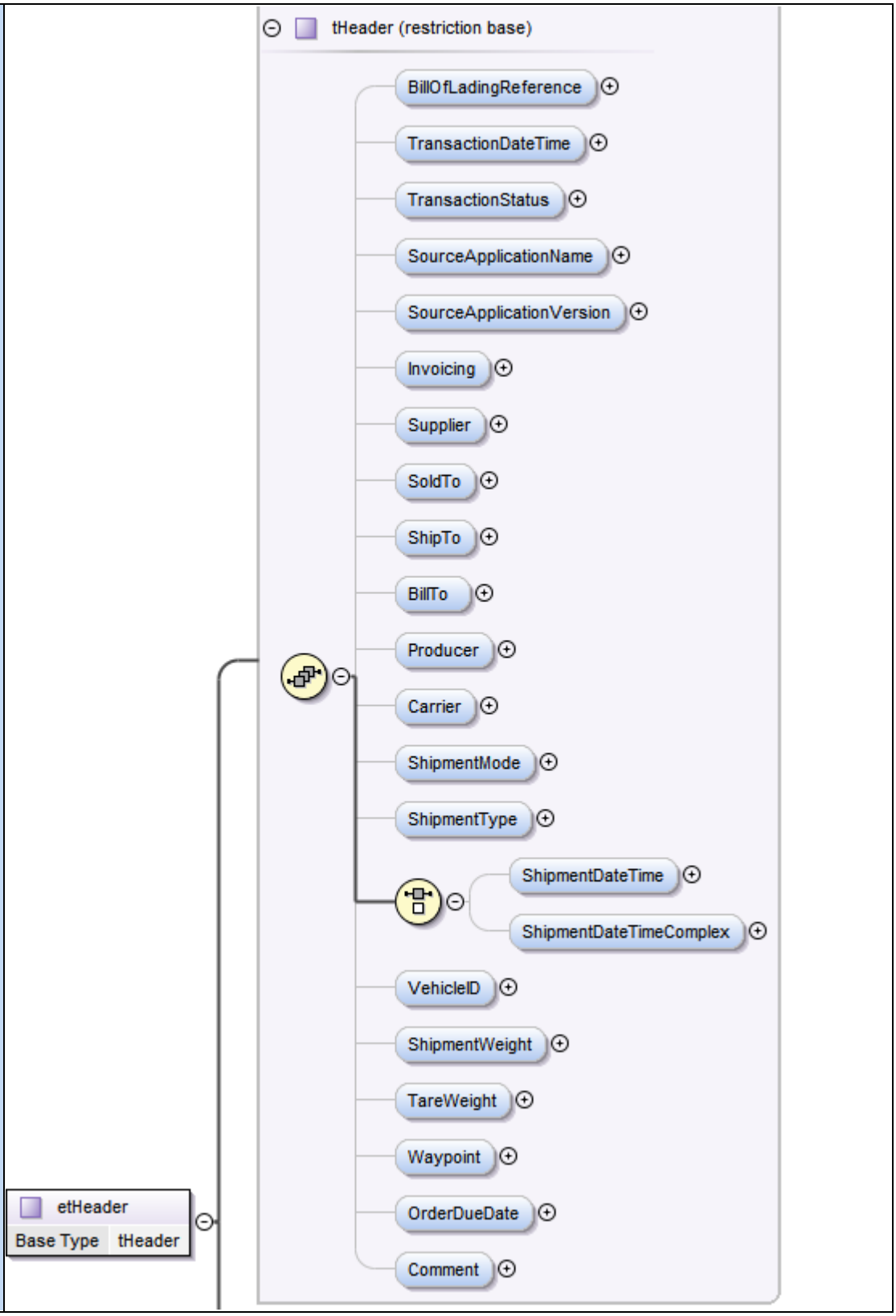
3.1 tBL

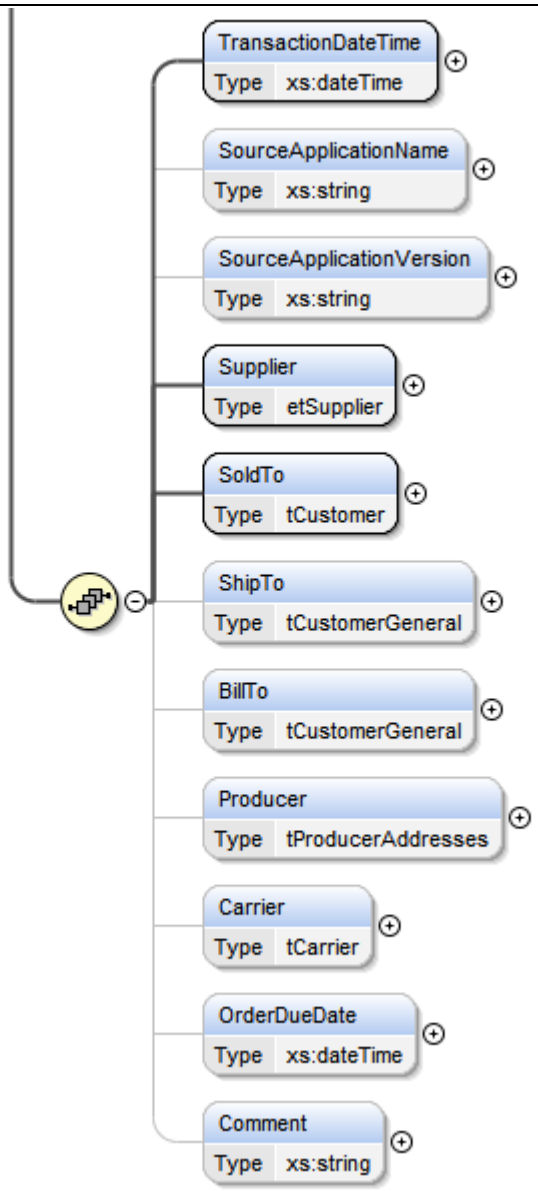
Diagram	
Type	restriction of **tProcurement**
Type hierarchy	**tProcurement** **tBL**
Used by	Element **RequestForQuotation**
Model	**Header** , **Body**

Source	`<xs:complexType name="tBL">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tProcurement">`
	`  <xs:sequence>`
	`  <xs:element name="Header" type="etHeader" minOccurs="1"/>`
	`  <xs:element name="Body" type="etBody" minOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

3.2 etHeader

Diagram

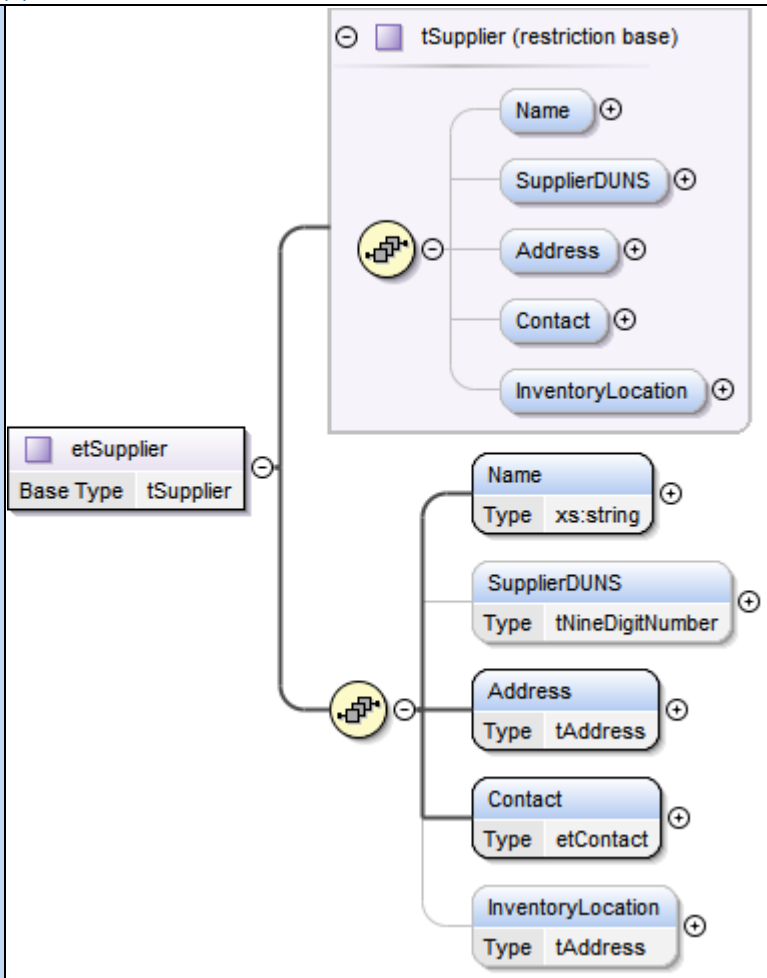


	
Type	restriction of **tHeader**
Type hierarchy	**tHeader** **etHeader**
Used by	Element **tBL/Header**
Model	**TransactionDateTime** , **SourceApplicationName{0,1}** , **SourceApplicationVersion{0,1}** , **Supplier** , **SoldTo** , **ShipTo{0,1}** , **BillTo{0,1}** , **Producer{0,1}** , **Carrier{0,1}** , **OrderDueDate{0,1}** , **Comment{0,1}**

Source	`<xs:complexType name="etHeader">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tHeader">`
	`  <xs:sequence>`
	`  <xs:element minOccurs="1" name="TransactionDateTime" type="xs:dateTime"/>`

```
        <xs:element name="SourceApplicationName" type="xs:string"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="SourceApplicationVersion" type="xs:string"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Supplier" type="etSupplier" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="SoldTo" type="tCustomer" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="ShipTo" type="tCustomerGeneral"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="BillTo" type="tCustomerGeneral"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Producer" type="tProducerAddresses"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Carrier" type="tCarrier" minOccurs="0"
maxOccurs="1"/>
        <xs:element minOccurs="0" name="OrderDueDate"
type="xs:dateTime"/>
        <xs:element name="Comment" type="xs:string" minOccurs="0"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

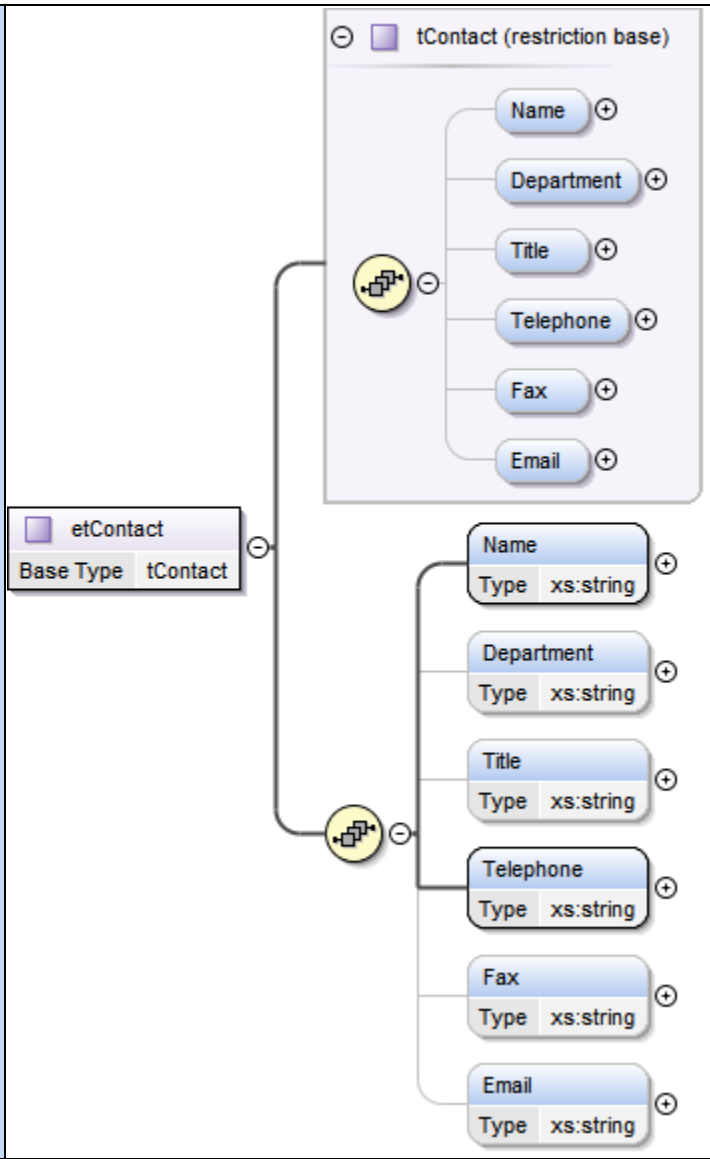
3.3 etSupplier

Diagram	
Type	restriction of **tSupplier**
Type hierarchy	**tSupplier** **etSupplier**
Used by	Element **etHeader/Supplier**
Model	**Name , SupplierDUNS{0,1} , Address , Contact , InventoryLocation{0,1}**

Source	`<xs:complexType name="etSupplier">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tSupplier">`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="SupplierDUNS" type="tNineDigitNumber" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="Address" type="tAddress" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="Contact" type="etContact" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="InventoryLocation" type="tAddress" minOccurs="0" maxOccurs="1"/>`
	`  </xs:sequence>`

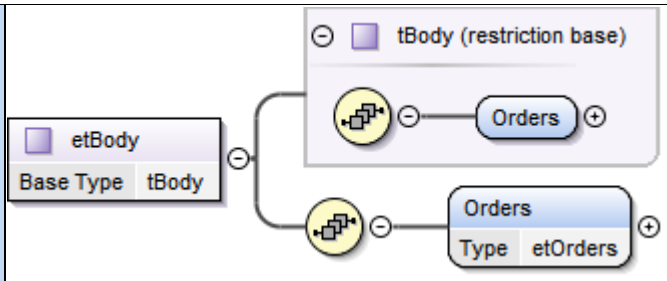
	</xs:restriction> </xs:complexContent> </xs:complexType>

3.4 etContact

Diagram	
Type	restriction of **tContact**
Type hierarchy	**tContact** **etContact**
Used by	Element **etSupplier/Contact**
Model	**Name** , **Department{0,1}** , **Title{0,1}** , **Telephone** , **Fax{0,1}** , **Email{0,1}**
Source	<xs:complexType name="etContact"> <xs:complexContent> <xs:restriction base="tContact"> <xs:sequence> <xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/>

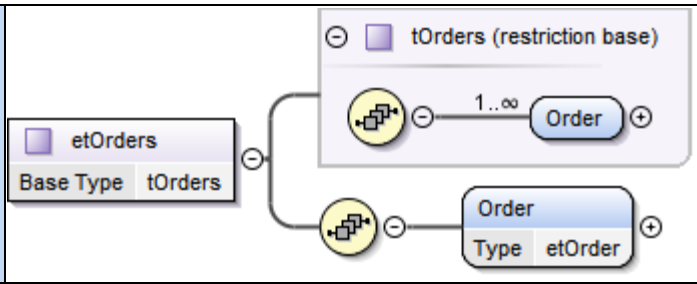
```
        <xs:element name="Department" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Title" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Telephone" type="xs:string" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Fax" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Email" type="xs:string" minOccurs="0"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

3.5 etBody

Diagram	
Type	restriction of **tBody**
Type hierarchy	**tBody** **etBody**
Used by	Element **tBL/Body**
Model	**Orders**

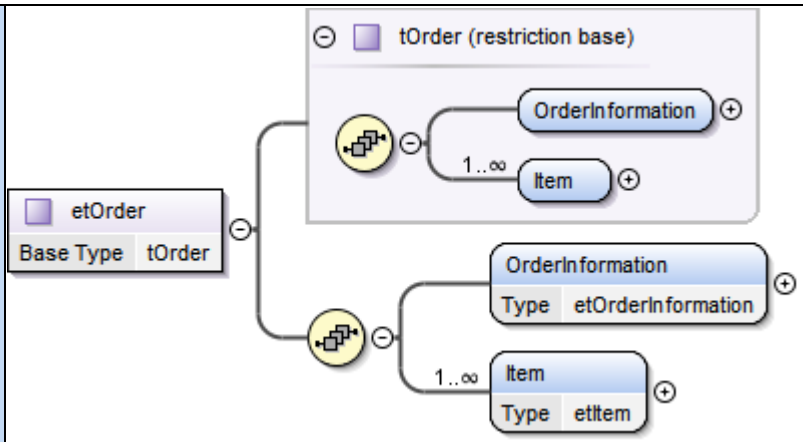
Source	`<xs:complexType name="etBody">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tBody">`
	`  <xs:sequence>`
	`  <xs:element maxOccurs="1" name="Orders" type="etOrders"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

3.6 etOrders

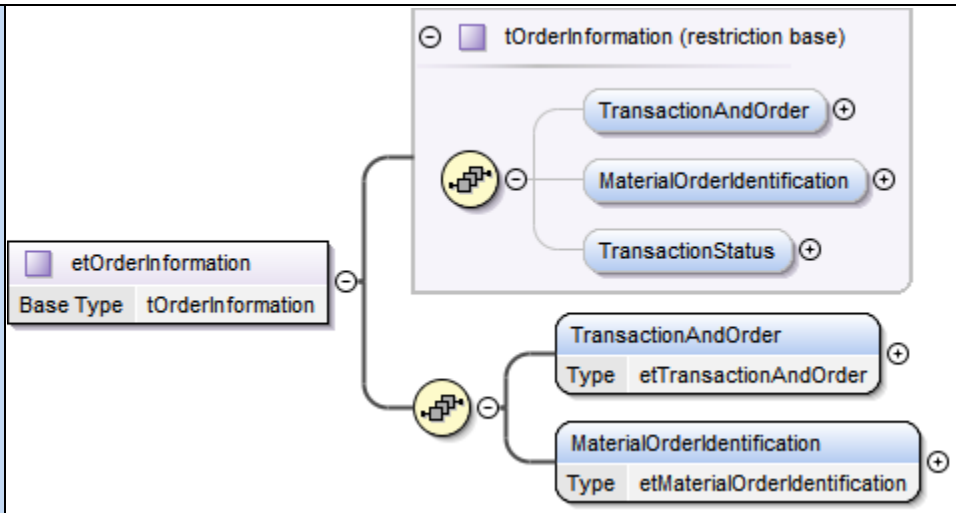
Diagram	
Type	restriction of **tOrders**
Type hierarchy	**tOrders**

	etOrders
Used by	Element **etBody/Orders**
Model	**Order**
Source	<xs:complexType name="etOrders"> <xs:complexContent> <xs:restriction base="tOrders"> <xs:sequence> <xs:element maxOccurs="1" name="Order" type="etOrder"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

3.7 etOrder

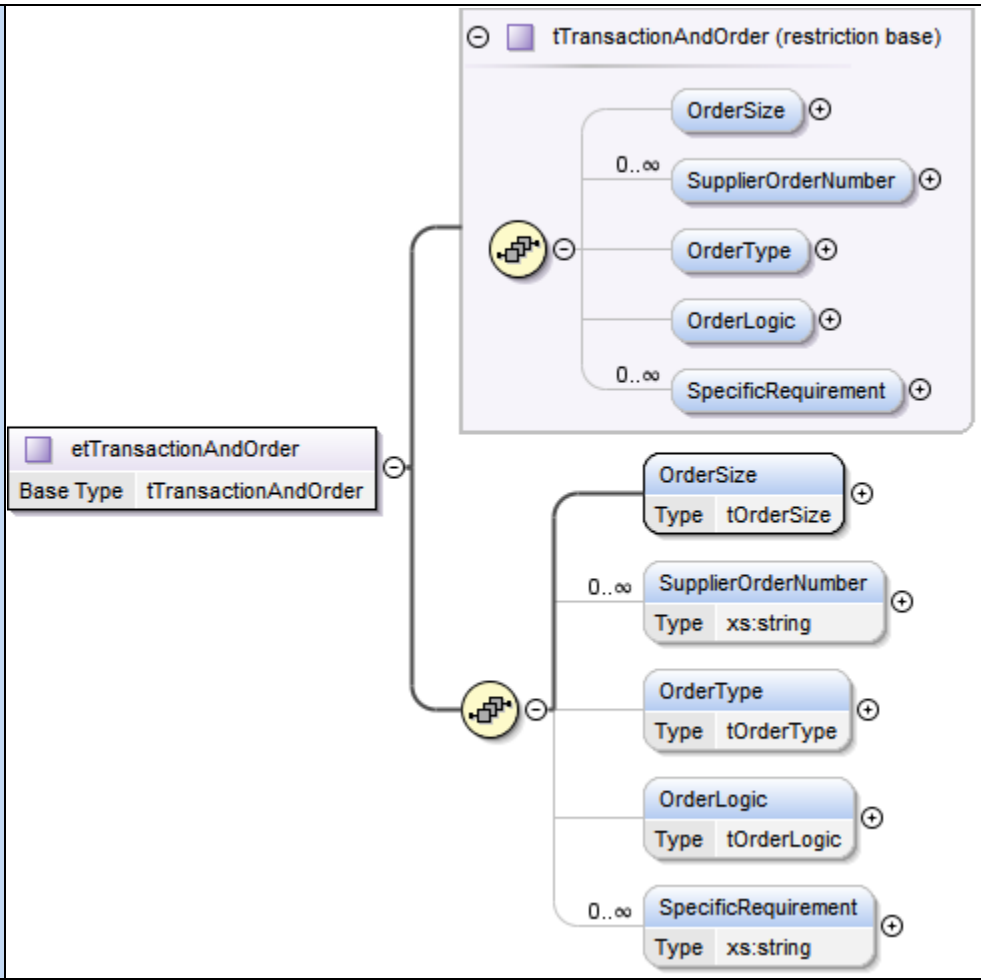
Diagram	
Type	restriction of **tOrder**
Type hierarchy	**tOrder** **etOrder**
Used by	Element **etOrders/Order**
Model	**OrderInformation , Item+**
Source	<xs:complexType name="etOrder"> <xs:complexContent> <xs:restriction base="tOrder"> <xs:sequence> <xs:element minOccurs="1" name="OrderInformation" type="etOrderInformation"/> <xs:element maxOccurs="unbounded" name="Item" type="etItem"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

3.8 etOrderInformation

Diagram	
Type	restriction of **tOrderInformation**
Type hierarchy	**tOrderInformation** **etOrderInformation**
Used by	Element **etOrder/OrderInformation**
Model	**TransactionAndOrder** , **MaterialOrderIdentification**

Source	`<xs:complexType name="etOrderInformation">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tOrderInformation">`
	`  <xs:sequence>`
	`  <xs:element name="TransactionAndOrder" type="etTransactionAndOrder" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="MaterialOrderIdentification" type="etMaterialOrderIdentification" minOccurs="1" maxOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

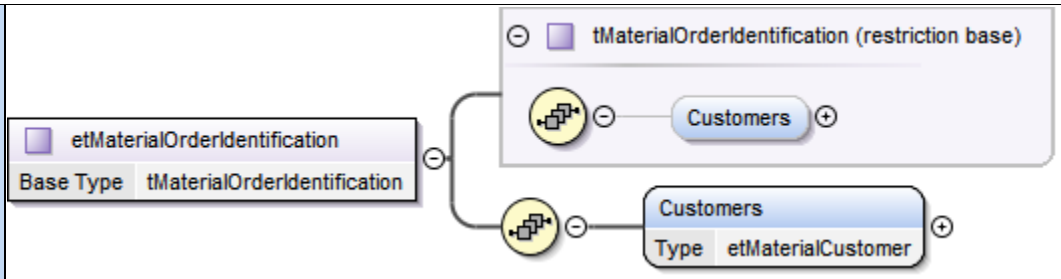
3.9 etTransactionAndOrder

Diagram	
Type	restriction of **tTransactionAndOrder**
Type hierarchy	**tTransactionAndOrder** **etTransactionAndOrder**
Used by	Element **etOrderInformation/TransactionAndOrder**
Model	**OrderSize** , **SupplierOrderNumber*** , **OrderType{0,1}** , **OrderLogic{0,1}** , **SpecificRequirement***

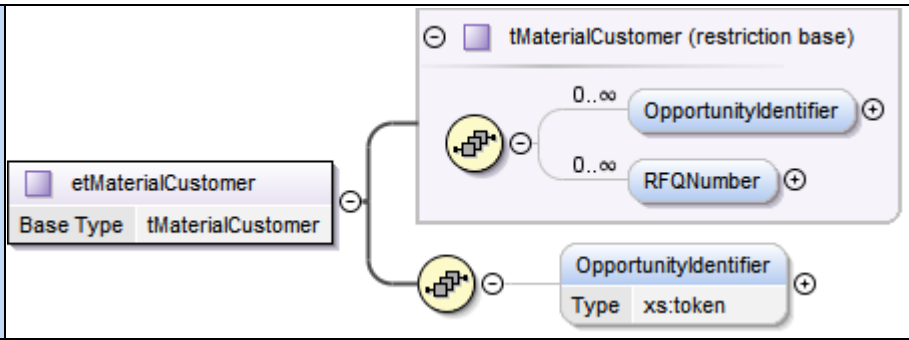
Source	`<xs:complexType name="etTransactionAndOrder">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tTransactionAndOrder">`
	`  <xs:sequence>`
	`  <xs:element name="OrderSize" type="tOrderSize" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  <xs:element name="OrderType" type="tOrderType" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="OrderLogic" type="tOrderLogic" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="SpecificRequirement" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`

	</xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

3.10 etMaterialOrderIdentification

Diagram	
Type	restriction of **tMaterialOrderIdentification**
Type hierarchy	**tMaterialOrderIdentification** **etMaterialOrderIdentification**
Used by	Element **etOrderInformation/MaterialOrderIdentification**
Model	**Customers**
Source	<xs:complexType name="etMaterialOrderIdentification"> <xs:complexContent> <xs:restriction base="tMaterialOrderIdentification"> <xs:sequence> <xs:element name="Customers" type="etMaterialCustomer" minOccurs="1" maxOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

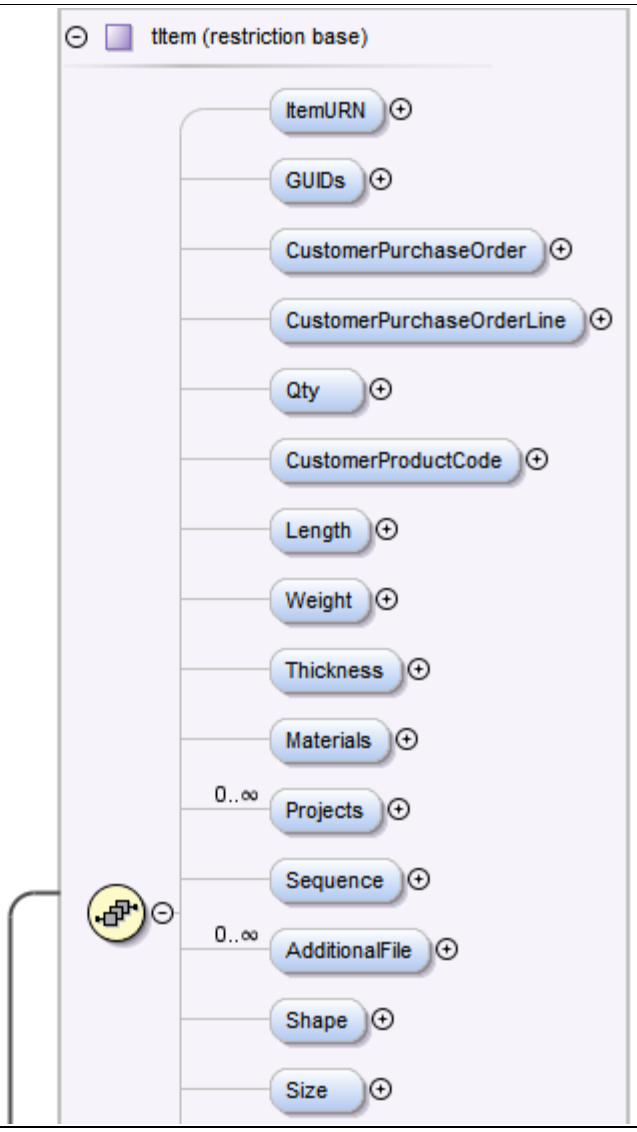
3.11 etMaterialCustomer

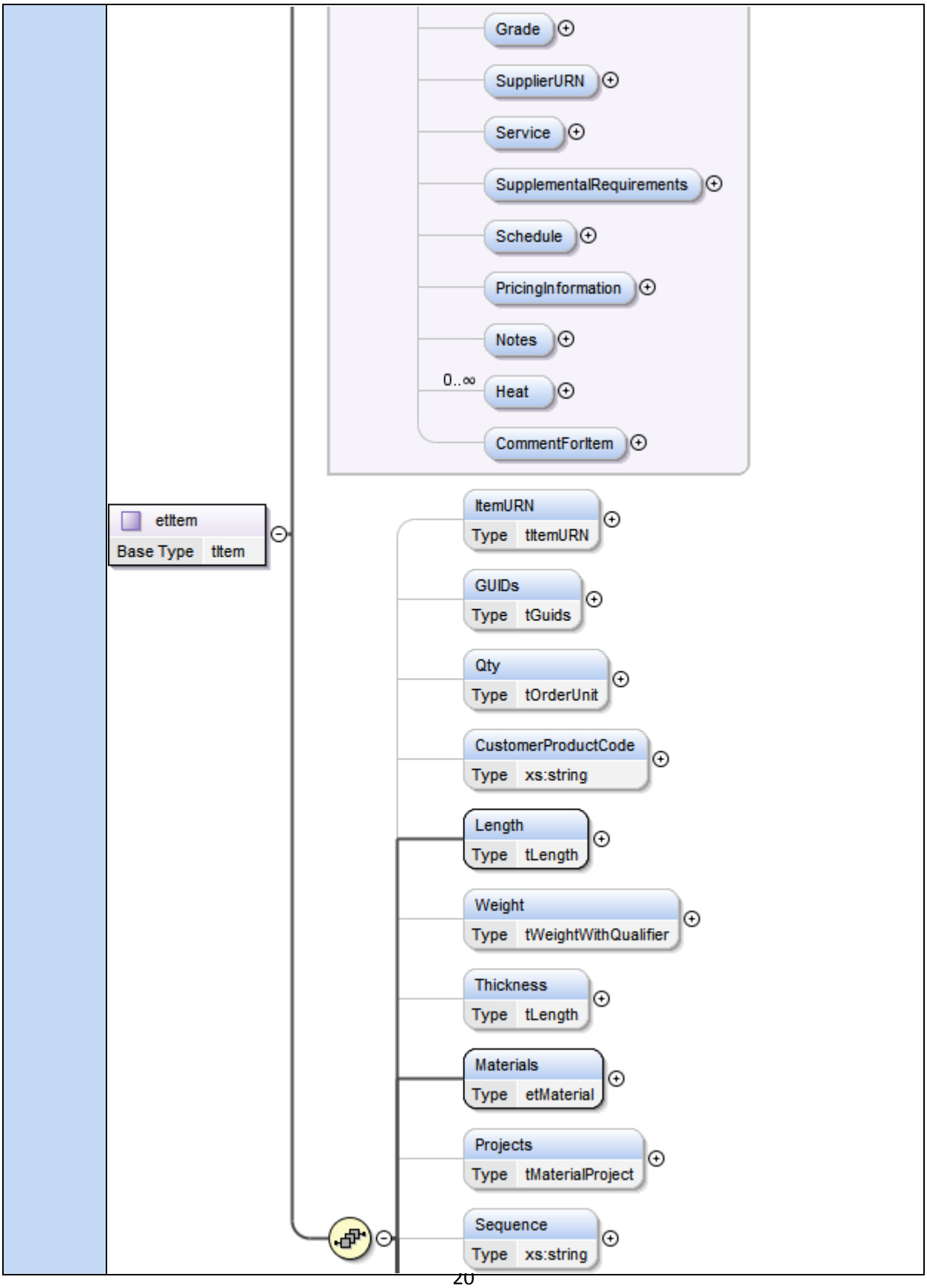
Diagram	
Type	restriction of **tMaterialCustomer**
Type hierarchy	**tMaterialCustomer** **etMaterialCustomer**
Used by	Element **etMaterialOrderIdentification/Customers**
Model	**OpportunityIdentifier{0,1}**
Source	<xs:complexType name="etMaterialCustomer"> <xs:complexContent> <xs:restriction base="tMaterialCustomer"> <xs:sequence>

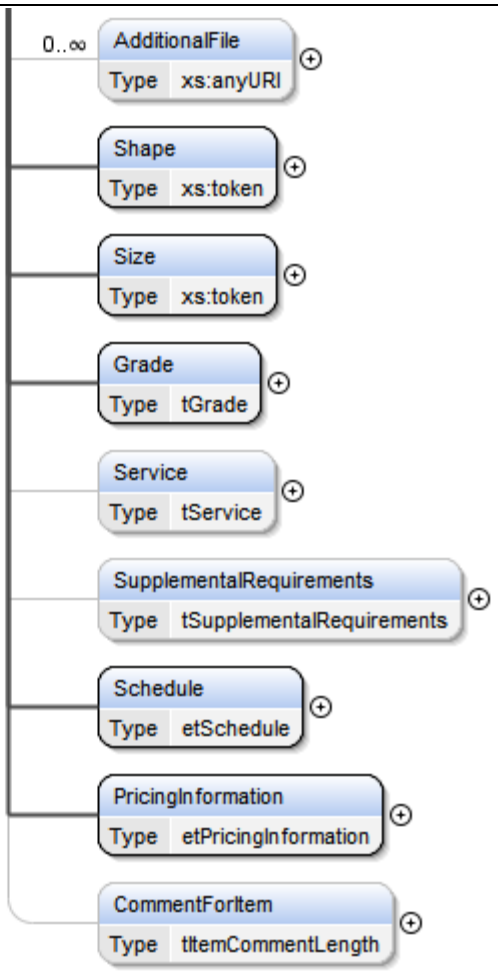
```
        <xs:element name="OpportunityIdentifier" type="xs:token"
minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

3.12 etItem

Diagram



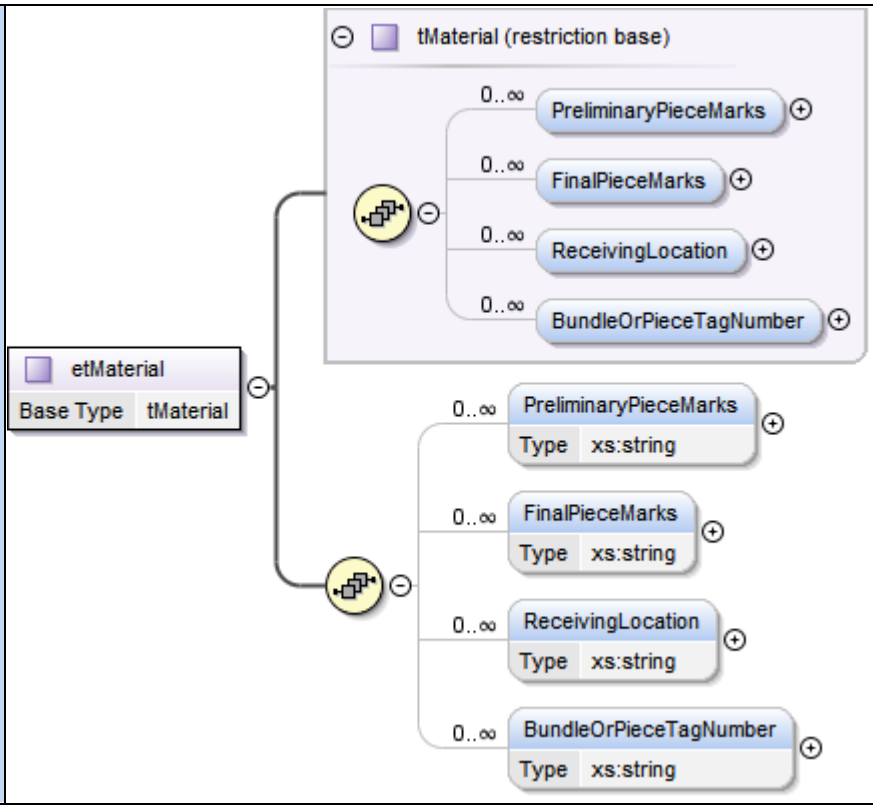

Grade
SupplierURN
Service
SupplementalRequirements
Schedule
PricingInformation
Notes
0..∞
Heat
CommentForItem
etItem
Base Type tItem
ItemURN
Type tItemURN
GUIDs
Type tGuids
Qty
Type tOrderUnit
CustomerProductCode
Type xs:string
Length
Type tLength
Weight
Type tWeightWithQualifier
Thickness
Type tLength
Materials
Type etMaterial
Projects
Type tMaterialProject
Sequence
Type xs:string

<table>
<tr><td></td><td> 
</td></tr>
<tr><td>Type</td><td>restriction of tItem</td></tr>
<tr><td>Type hierarchy</td><td>tItem
etItem</td></tr>
<tr><td>Used by</td><td>Element etOrder/Item</td></tr>
<tr><td>Model</td><td>ItemURN{0,1} , GUIDs{0,1} , Qty{0,1} , CustomerProductCode{0,1} , Length , Weight{0,1} , Thickness{0,1} , Materials , Projects{0,1} , Sequence{0,1} , AdditionalFile* , Shape , Size , Grade , Service{0,1} , SupplementalRequirements{0,1} , Schedule , PricingInformation , CommentForItem{0,1}</td></tr>
<tr><td>Source</td><td><pre>
<xs:complexType name="etItem">
  <xs:complexContent>
    <xs:restriction base="tItem">
      <xs:sequence>
        <xs:element minOccurs="0" name="ItemURN" type="tItemURN"/>
        <xs:element name="GUIDs" type="tGuids" minOccurs="0"
maxOccurs="1"/>
        <xs:element minOccurs="0" name="Qty" type="tOrderUnit"/>
        <xs:element minOccurs="0" name="CustomerProductCode"
type="xs:string"/>
        <xs:element minOccurs="1" name="Length" type="tLength"/>
</pre></td></tr>
</table>

```
        <xs:element minOccurs="0" name="Weight"
type="tWeightWithQualifier"/>
        <xs:element minOccurs="0" name="Thickness" type="tLength"/>
        <xs:element name="Materials" type="etMaterial" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Projects" type="tMaterialProject"
minOccurs="0" maxOccurs="1"/>
        <xs:element minOccurs="0" maxOccurs="1" name="Sequence"
type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="unbounded"
name="AdditionalFile" type="xs:anyURI"/>
        <xs:element name="Shape" type="xs:token" minOccurs="1"/>
        <xs:element name="Size" type="xs:token" minOccurs="1"/>
        <xs:element name="Grade" type="tGrade" minOccurs="1"/>
        <xs:element minOccurs="0" name="Service" type="tService"/>
        <xs:element minOccurs="0" maxOccurs="1"
name="SupplementalRequirements" type="tSupplementalRequirements"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Schedule"
type="etSchedule"/>
        <xs:element minOccurs="1" maxOccurs="1"
name="PricingInformation" type="etPricingInformation"/>
        <xs:element name="CommentForItem" type="tItemCommentLength"
minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

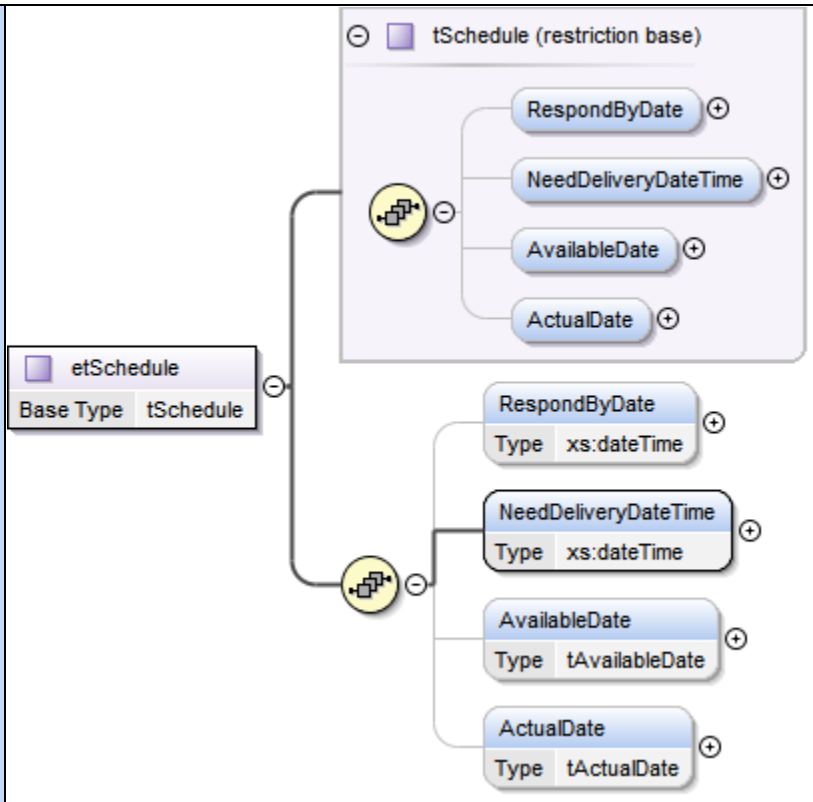
3.13 etMaterial

Diagram



Type	restriction of **tMaterial**
Type hierarchy	**tMaterial** **etMaterial**
Used by	Element **etItem/Materials**
Model	**PreliminaryPieceMarks*** , **FinalPieceMarks*** , **ReceivingLocation*** , **BundleOrPieceTagNumber***
Source	<xs:complexType name="etMaterial"> <xs:complexContent> <xs:restriction base="tMaterial"> <xs:sequence> <xs:element name="PreliminaryPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="FinalPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="ReceivingLocation" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="BundleOrPieceTagNumber" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

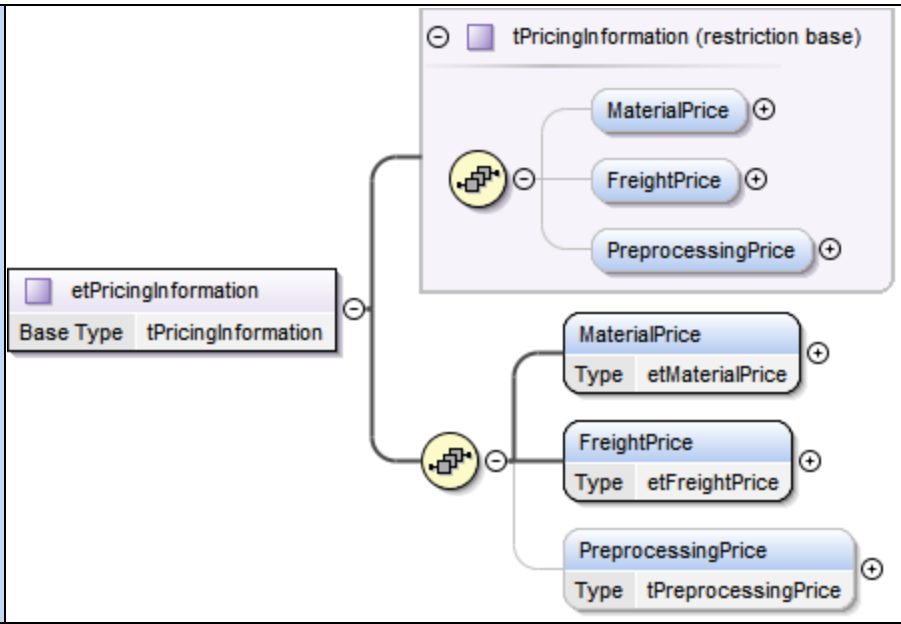
3.14 etSchedule

Diagram	
Type	restriction of **tSchedule**
Type hierarchy	**tSchedule**

	etSchedule
Used by	Element **etItem/Schedule**
Model	**RespondByDate{0,1}** , **NeedDeliveryDateTime** , **AvailableDate{0,1}** , **ActualDate{0,1}**

Source	`<xs:complexType name="etSchedule">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tSchedule">`
	`  <xs:sequence>`
	`  <xs:element name="RespondByDate" type="xs:dateTime" minOccurs="0"/>`
	`  <xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="AvailableDate" type="tAvailableDate" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="ActualDate" type="tActualDate" minOccurs="0" maxOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

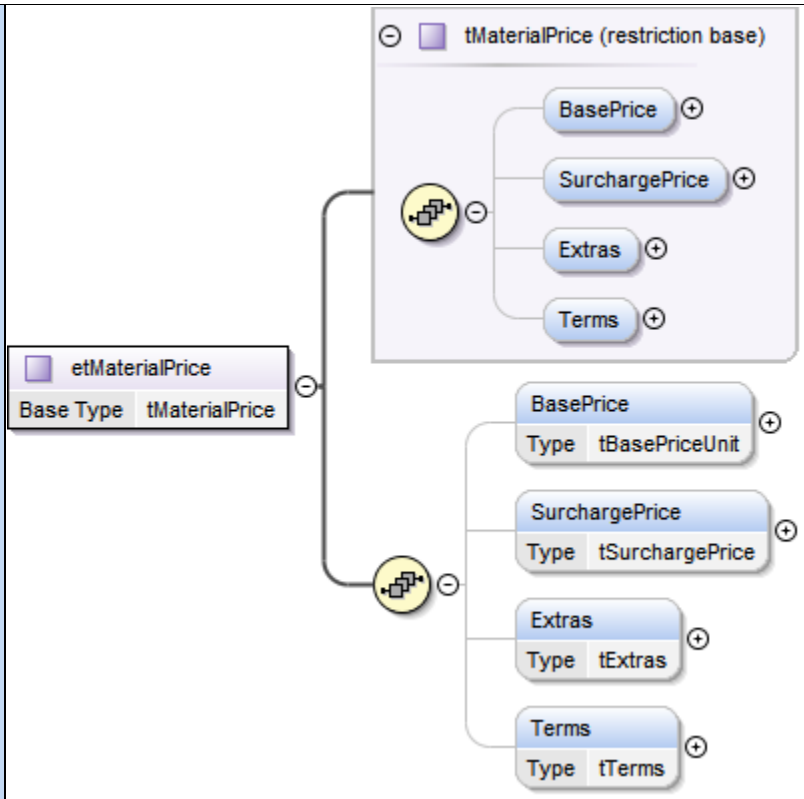
3.15 etPricingInformation

Diagram	
Type	restriction of **tPricingInformation**
Type hierarchy	**tPricingInformation** **etPricingInformation**
Used by	Element **etItem/PricingInformation**
Model	**MaterialPrice** , **FreightPrice** , **PreprocessingPrice{0,1}**

Source	`<xs:complexType name="etPricingInformation">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tPricingInformation">`
	`  <xs:sequence>`

```
        <xs:element name="MaterialPrice" type="etMaterialPrice"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="FreightPrice" type="etFreightPrice"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="PreprocessingPrice"
type="tPreprocessingPrice" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

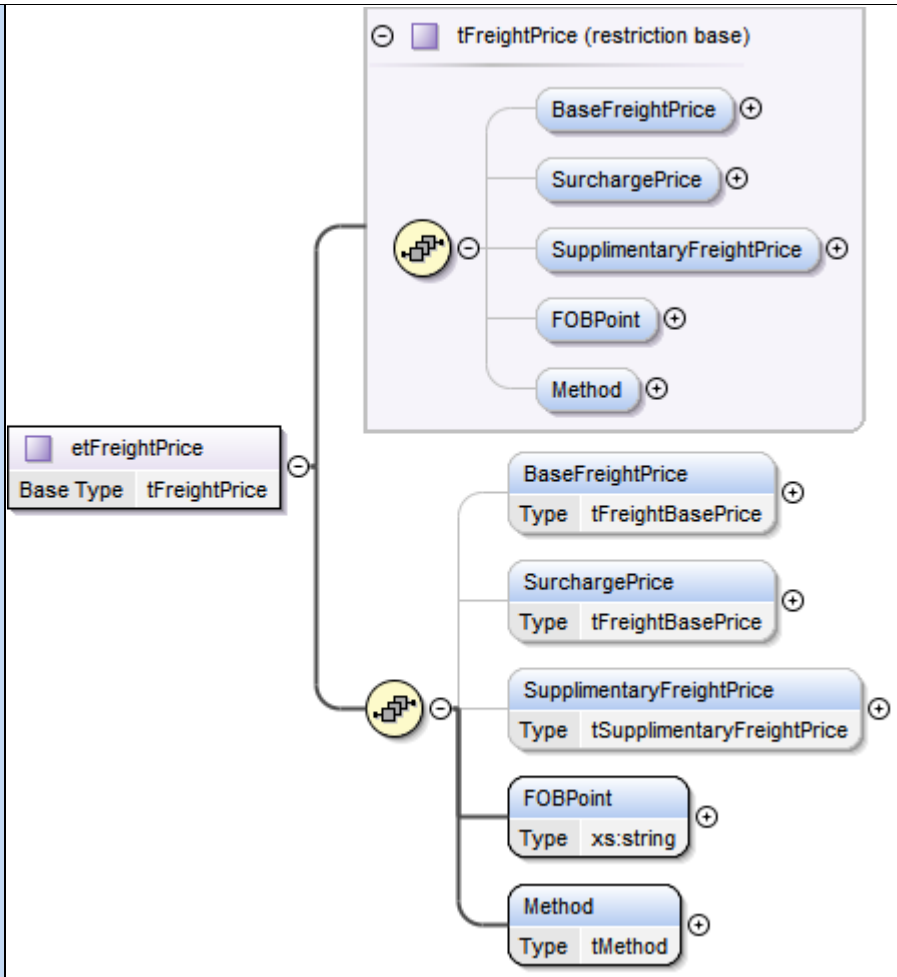
3.16 etMaterialPrice

Diagram	
Type	restriction of **tMaterialPrice**
Type hierarchy	**tMaterialPrice** **etMaterialPrice**
Used by	Element **etPricingInformation/MaterialPrice**
Model	**BasePrice{0,1}** , **SurchargePrice{0,1}** , **Extras{0,1}** , **Terms{0,1}**

Source	`<xs:complexType name="etMaterialPrice">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tMaterialPrice">`
	`  <xs:sequence>`
	`  <xs:element name="BasePrice" type="tBasePriceUnit" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="SurchargePrice" type="tSurchargePrice" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="Extras" type="tExtras" minOccurs="0" maxOccurs="1"/>`

```
        <xs:element name="Terms" type="tTerms" minOccurs="0"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

3.17 etFreightPrice

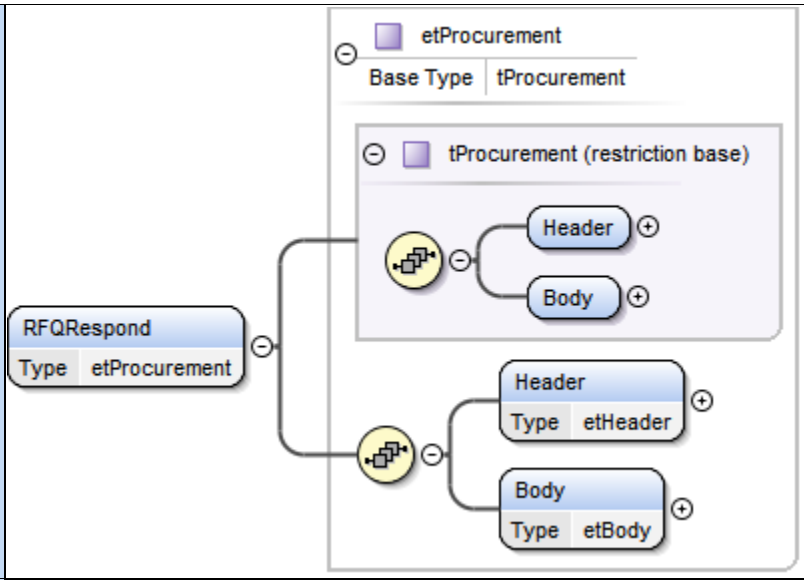
Diagram	
Type	restriction of **tFreightPrice**
Type hierarchy	**tFreightPrice** **etFreightPrice**
Used by	Element **etPricingInformation/FreightPrice**
Model	**BaseFreightPrice{0,1}** , **SurchargePrice{0,1}** , **SupplimentaryFreightPrice{0,1}** , **FOBPoint** , **Method**

Source	`<xs:complexType name="etFreightPrice">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tFreightPrice">`
	`  <xs:sequence>`
	`  <xs:element name="BaseFreightPrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="SurchargePrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/>`

```
        <xs:element name="SupplimentaryFreightPrice"
type="tSupplimentaryFreightPrice" minOccurs="0" maxOccurs="1"/>
        <xs:element name="FOBPoint" type="xs:string" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Method" type="tMethod" minOccurs="1"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

4 Element in Request for Quotation Respond

4.1 RFQRespond

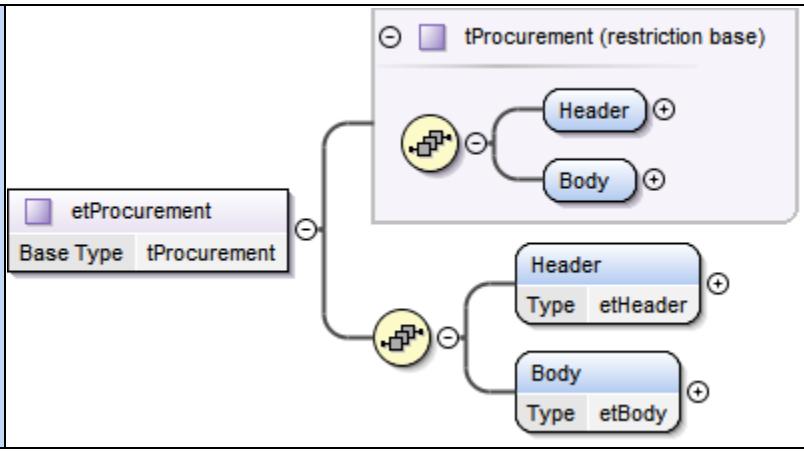
Diagram	
Type	**etProcurement**
Type hierarchy	**tProcurement** **etProcurement**
Properties	content: **complex**
Model	**Header** , **Body**

Instance	`<RFQRespond xmlns="AISCProcurement">`
	`  <Header>{1,1}</Header>`
	`  <Body>{1,1}</Body>`
	`</RFQRespond>`

Source	`<xs:element name="RFQRespond" type="etProcurement"/>`

5 Complext Types in Request for Quotation Respond

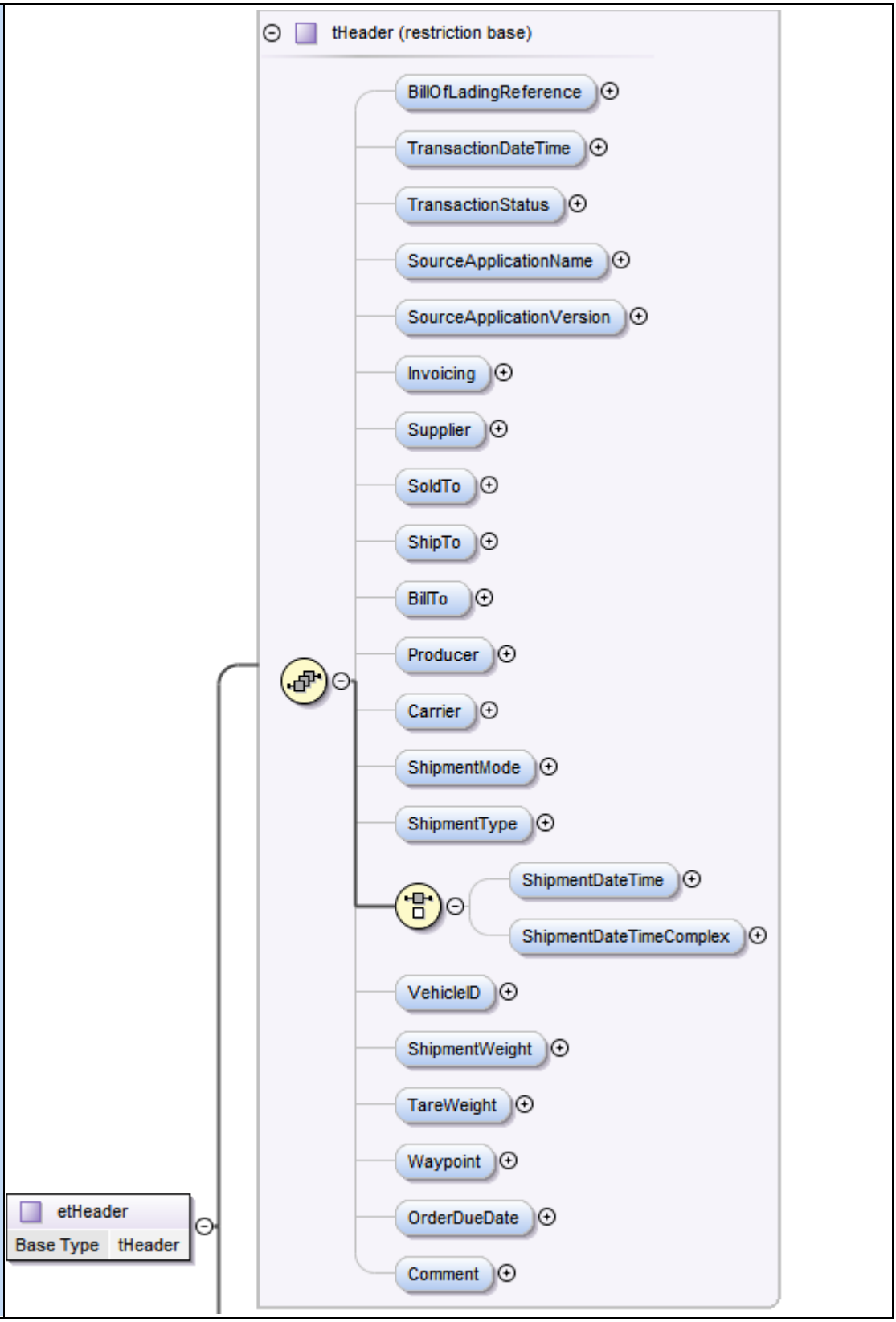
5.1 etProcurement

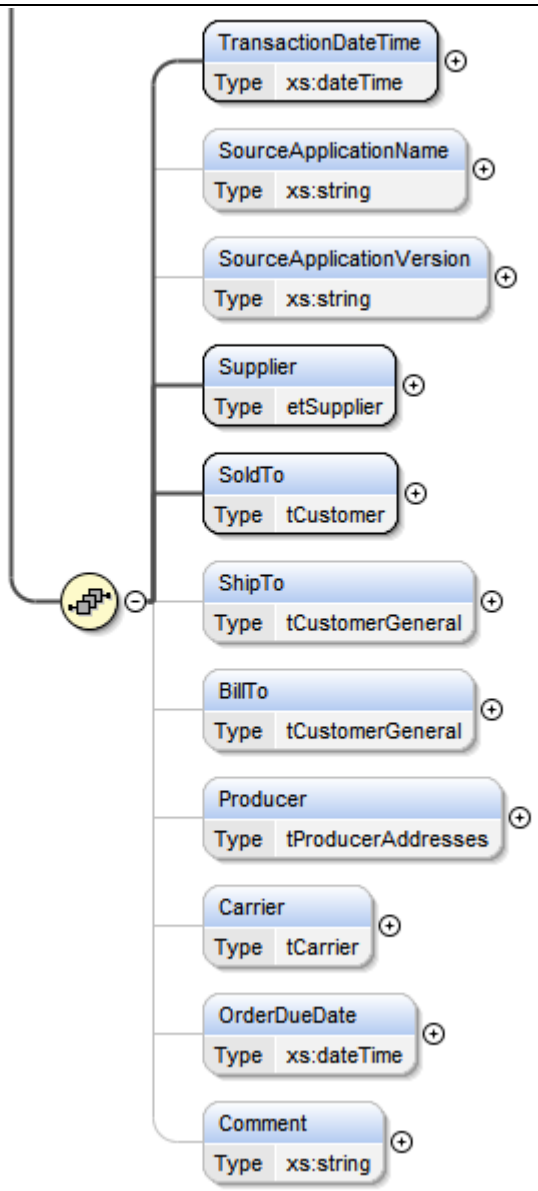
Diagram	

Type	restriction of **tProcurement**
Type hierarchy	**tProcurement** **etProcurement**
Used by	Element **RFQRespond**
Model	**Header** , **Body**
Source	<xs:complexType name="etProcurement"> <xs:complexContent> <xs:restriction base="tProcurement"> <xs:sequence> <xs:element name="Header" type="etHeader" minOccurs="1"/> <xs:element name="Body" type="etBody" minOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

5.2 etHeader

Diagram

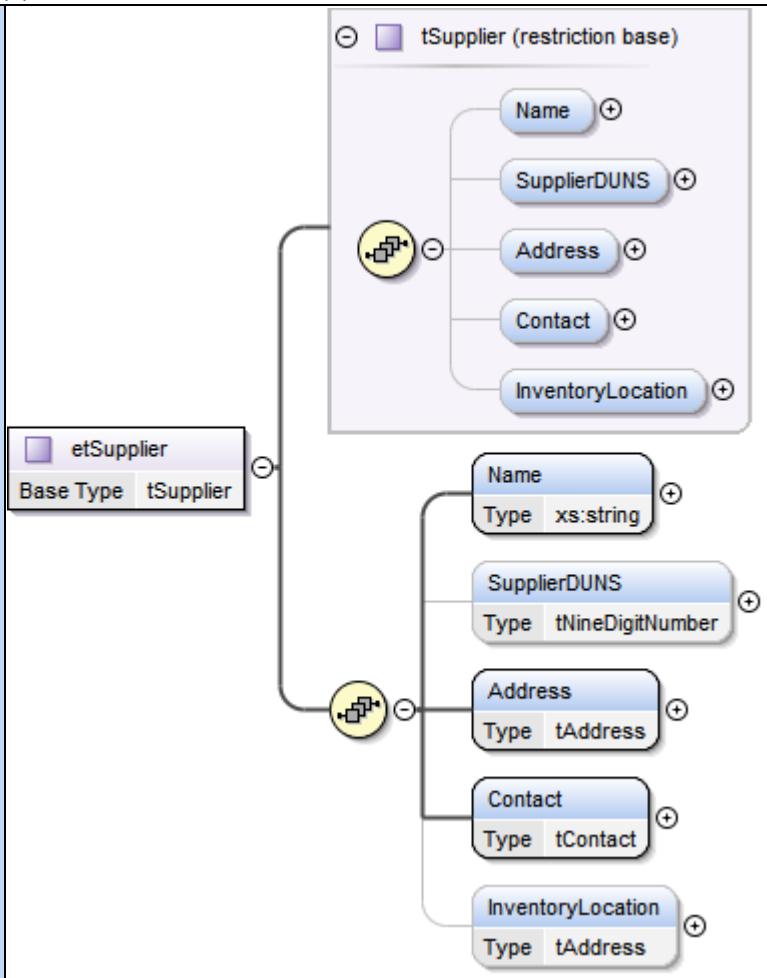


	
Type	restriction of **tHeader**
Type hierarchy	**tHeader** **etHeader**
Used by	Element **etProcurement/Header**
Model	**TransactionDateTime** , **SourceApplicationName{0,1}** , **SourceApplicationVersion{0,1}** , **Supplier** , **SoldTo** , **ShipTo{0,1}** , **BillTo{0,1}** , **Producer{0,1}** , **Carrier{0,1}** , **OrderDueDate{0,1}** , **Comment{0,1}**

Source	`<xs:complexType name="etHeader">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tHeader">`
	`  <xs:sequence>`
	`  <xs:element minOccurs="1" name="TransactionDateTime" type="xs:dateTime"/>`

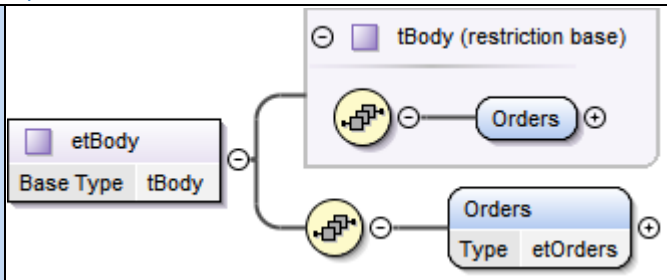
```
        <xs:element name="SourceApplicationName" type="xs:string"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="SourceApplicationVersion" type="xs:string"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Supplier" type="etSupplier" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="SoldTo" type="tCustomer" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="ShipTo" type="tCustomerGeneral"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="BillTo" type="tCustomerGeneral"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Producer" type="tProducerAddresses"
minOccurs="0" maxOccurs="1"/>
        <xs:element name="Carrier" type="tCarrier" minOccurs="0"
maxOccurs="1"/>
        <!--  <xs:element name="OrderInformation"
type="etOrderInformation" minOccurs="1" maxOccurs="1"/> -->
        <xs:element minOccurs="0" name="OrderDueDate"
type="xs:dateTime"/>
        <xs:element name="Comment" type="xs:string" minOccurs="0"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

5.3 etSupplier

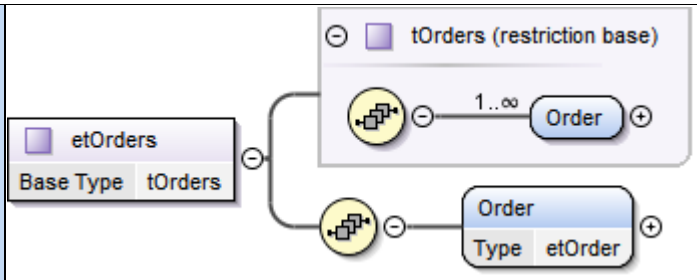
Diagram	
Type	restriction of **tSupplier**
Type hierarchy	**tSupplier** **etSupplier**
Used by	Element **etHeader/Supplier**
Model	**Name , SupplierDUNS{0,1} , Address , Contact , InventoryLocation{0,1}**
Source	<xs:complexType name="etSupplier"> <xs:complexContent> <xs:restriction base="tSupplier"> <xs:sequence> <xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/> <xs:element name="SupplierDUNS" type="tNineDigitNumber" minOccurs="0" maxOccurs="1"/> <xs:element name="Address" type="tAddress" minOccurs="1" maxOccurs="1"/> <xs:element name="Contact" type="tContact" minOccurs="1" maxOccurs="1"/> <xs:element name="InventoryLocation" type="tAddress" minOccurs="0" maxOccurs="1"/> </xs:sequence>

	</xs:restriction> </xs:complexContent> </xs:complexType>

5.4 etBody

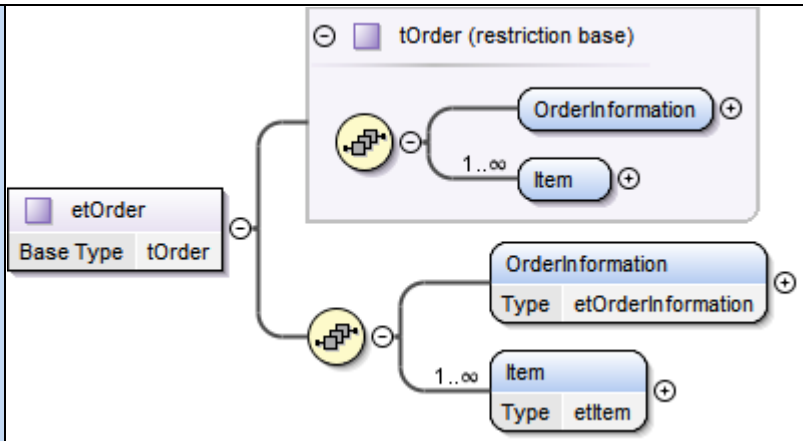
Diagram	
Type	restriction of **tBody**
Type hierarchy	**tBody** **etBody**
Used by	Element **etProcurement/Body**
Model	**Orders**
Source	<xs:complexType name="etBody"> <xs:complexContent> <xs:restriction base="tBody"> <xs:sequence> <xs:element maxOccurs="1" name="Orders" type="etOrders"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

5.5 etOrders

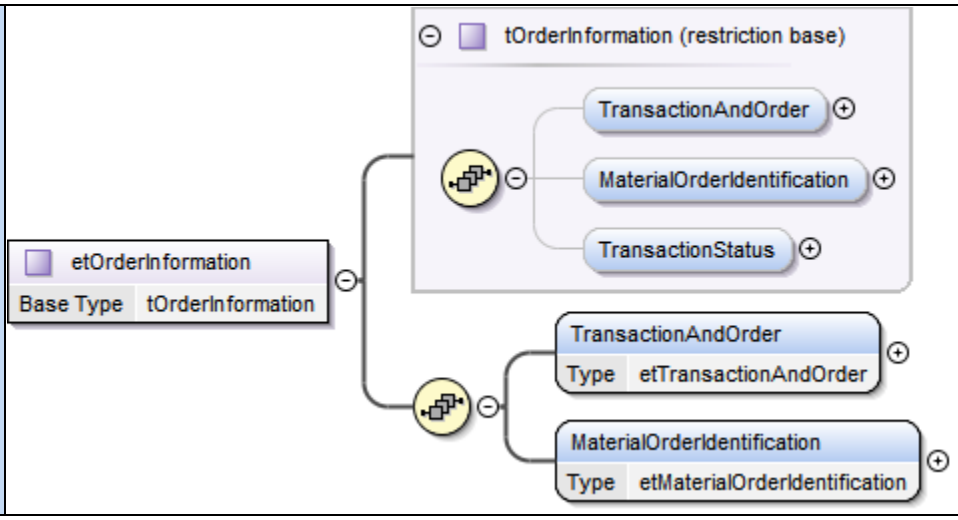
Diagram	
Type	restriction of **tOrders**
Type hierarchy	**tOrders** **etOrders**
Used by	Element **etBody/Orders**
Model	**Order**
Source	<xs:complexType name="etOrders"> <xs:complexContent> <xs:restriction base="tOrders"> <xs:sequence> <xs:element maxOccurs="1" name="Order" type="etOrder"/> </xs:sequence> </xs:restriction>

	</xs:complexContent> </xs:complexType>

5.6 etOrder

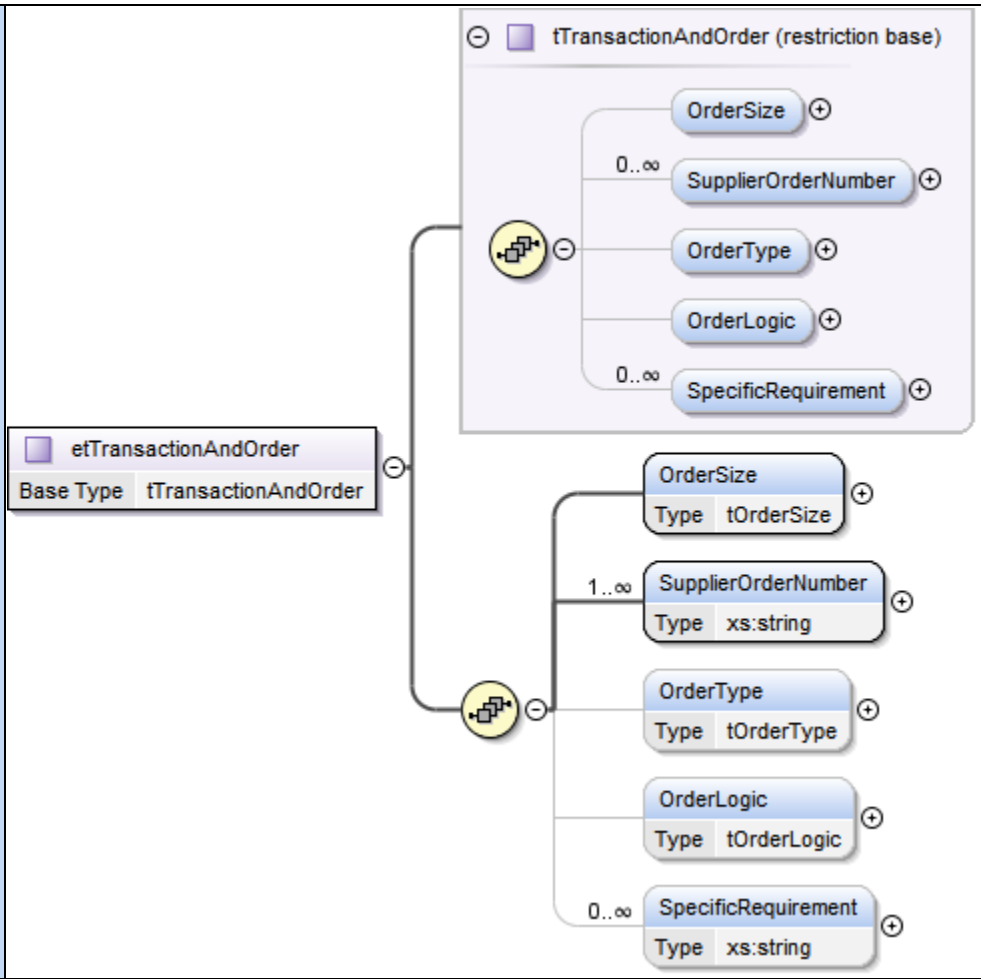
Diagram	
Type	restriction of **tOrder**
Type hierarchy	**tOrder** **etOrder**
Used by	Element **etOrders/Order**
Model	**OrderInformation , Item+**
Source	<xs:complexType name="etOrder"> <xs:complexContent> <xs:restriction base="tOrder"> <xs:sequence> <xs:element minOccurs="1" name="OrderInformation" type="etOrderInformation"/> <xs:element maxOccurs="unbounded" name="Item" type="etItem"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

5.7 etOrderInformation

Diagram	

Type	restriction of **tOrderInformation**
Type hierarchy	**tOrderInformation** **etOrderInformation**
Used by	Element **etOrder/OrderInformation**
Model	**TransactionAndOrder , MaterialOrderIdentification**
Source	<xs:complexType name="etOrderInformation"> <xs:complexContent> <xs:restriction base="tOrderInformation"> <xs:sequence> <xs:element name="TransactionAndOrder" type="etTransactionAndOrder" minOccurs="1" maxOccurs="1"/> <xs:element name="MaterialOrderIdentification" type="etMaterialOrderIdentification" minOccurs="1" maxOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

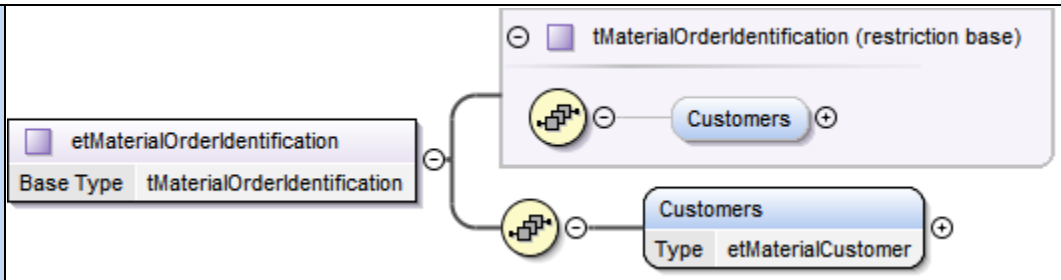
5.8 etTransactionAndOrder

Diagram	
Type	restriction of **tTransactionAndOrder**

Type hierarchy	**tTransactionAndOrder** **etTransactionAndOrder**
Used by	Element **etOrderInformation/TransactionAndOrder**
Model	**OrderSize** , **SupplierOrderNumber+** , **OrderType{0,1}** , **OrderLogic{0,1}** , **SpecificRequirement***

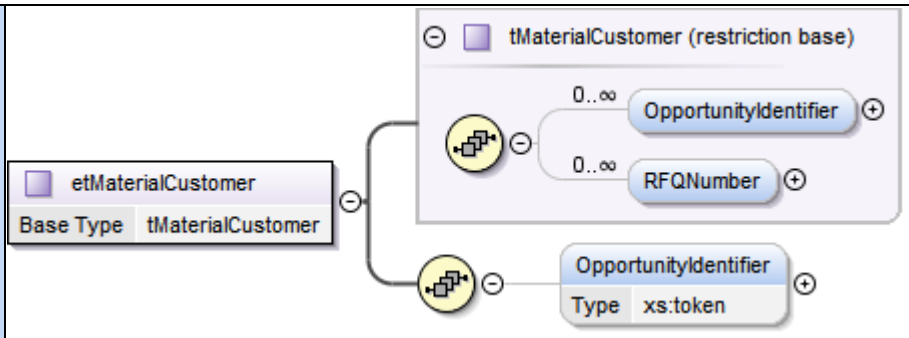
Source	`<xs:complexType name="etTransactionAndOrder">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tTransactionAndOrder">`
	`  <xs:sequence>`
	`  <xs:element name="OrderSize" type="tOrderSize" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="1" maxOccurs="unbounded"/>`
	`  <xs:element name="OrderType" type="tOrderType" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="OrderLogic" type="tOrderLogic" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="SpecificRequirement" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

5.9 etMaterialOrderIdentification

Diagram	
Type	restriction of **tMaterialOrderIdentification**
Type hierarchy	**tMaterialOrderIdentification** **etMaterialOrderIdentification**
Used by	Element **etOrderInformation/MaterialOrderIdentification**
Model	**Customers**

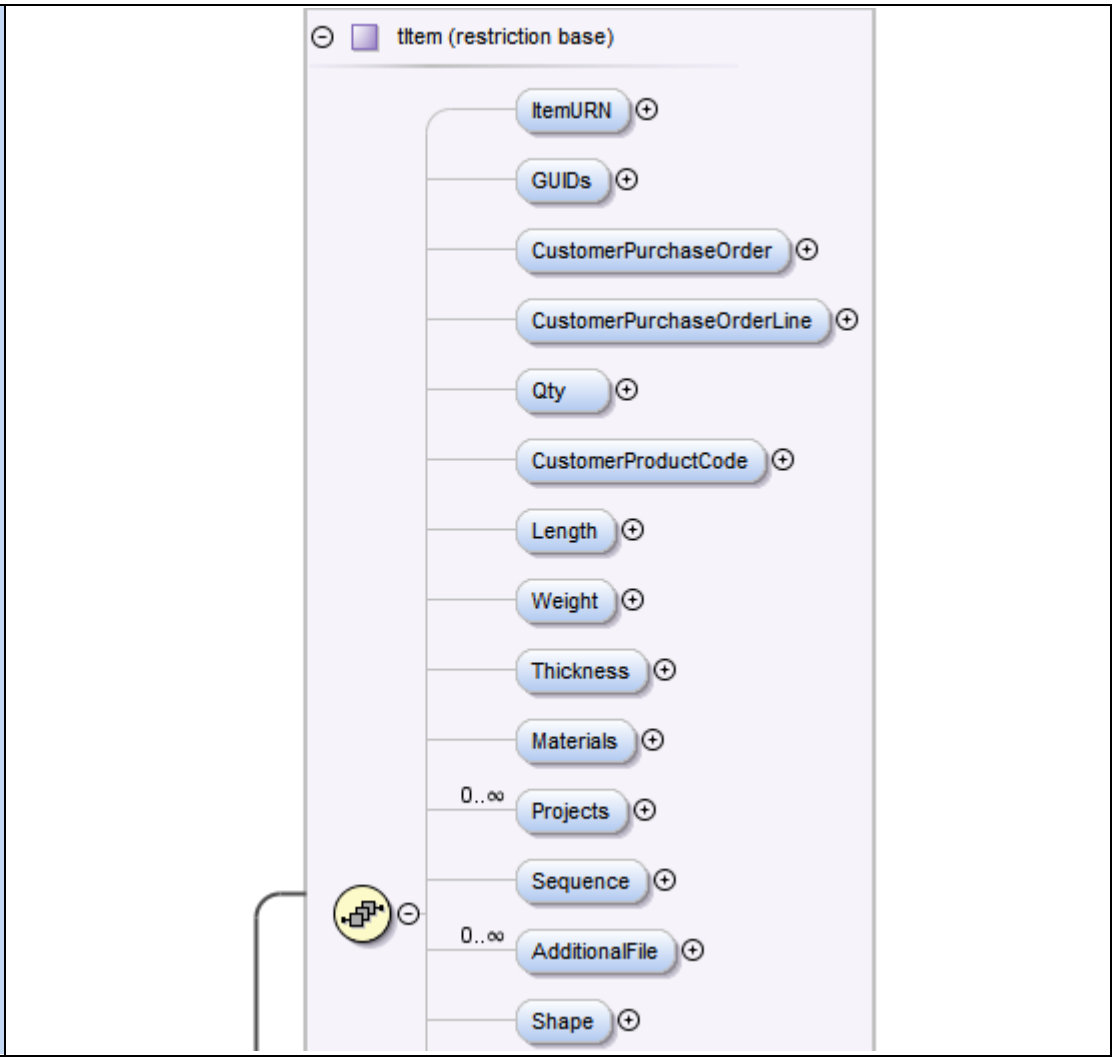
Source	`<xs:complexType name="etMaterialOrderIdentification">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tMaterialOrderIdentification">`
	`  <xs:sequence>`
	`  <xs:element name="Customers" type="etMaterialCustomer" minOccurs="1" maxOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

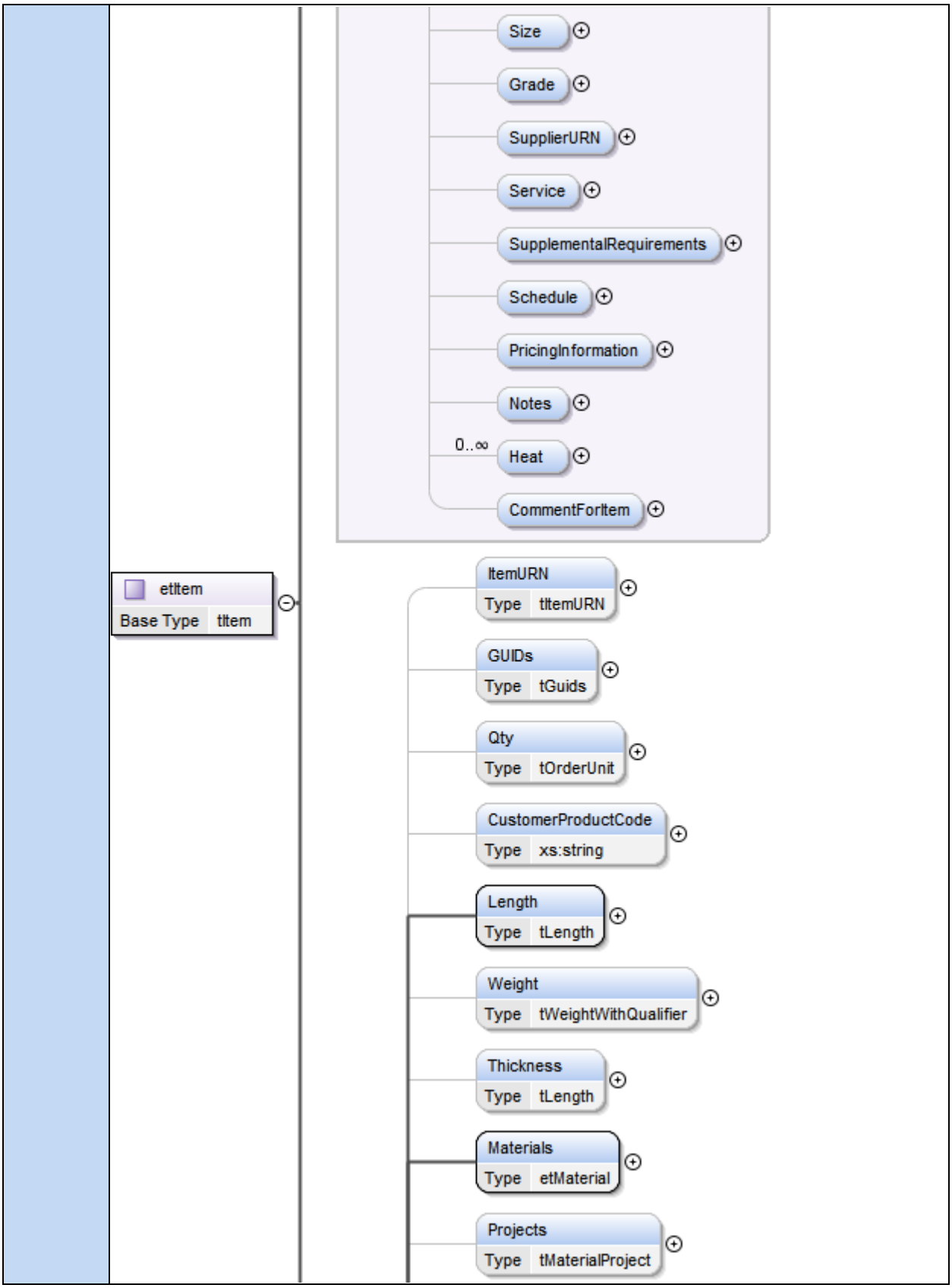
5.10 etMaterialCustomer

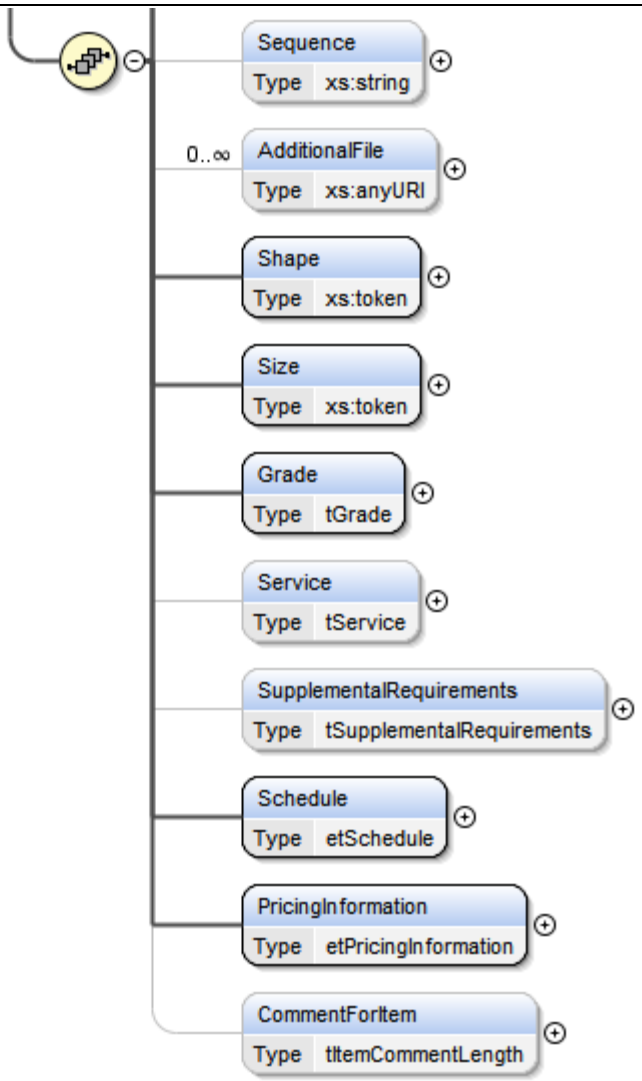
Diagram	
Type	restriction of **tMaterialCustomer**
Type hierarchy	**tMaterialCustomer** **etMaterialCustomer**
Used by	Element **etMaterialOrderIdentification/Customers**
Model	**OpportunityIdentifier{0,1}**

Source	`<xs:complexType name="etMaterialCustomer">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tMaterialCustomer">`
	`  <xs:sequence>`
	`  <xs:element name="OpportunityIdentifier" type="xs:token" minOccurs="0" maxOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

5.11 etItem

Diagram	


Size
Grade
SupplierURN
Service
SupplementalRequirements
Schedule
PricingInformation
Notes
0..∞
Heat
CommentForItem
etItem
Base Type tItem
ItemURN
Type tItemURN
GUIDs
Type tGuids
Qty
Type tOrderUnit
CustomerProductCode
Type xs:string
Length
Type tLength
Weight
Type tWeightWithQualifier
Thickness
Type tLength
Materials
Type etMaterial
Projects
Type tMaterialProject

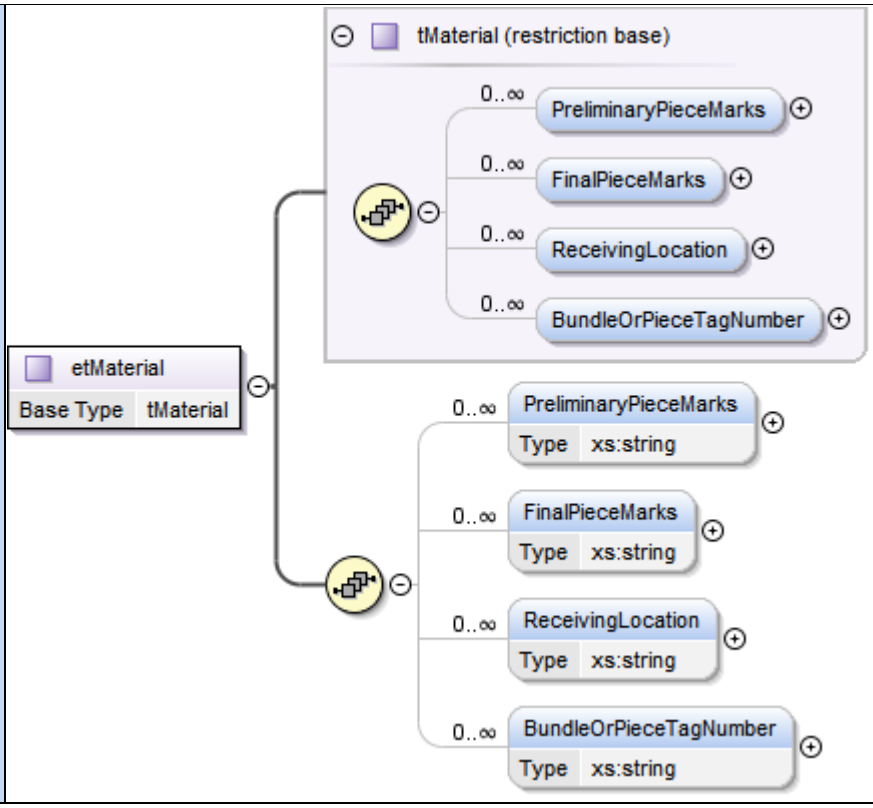
	
Type	restriction of **tItem**
Type hierarchy	**tItem** **etItem**
Used by	Element **etOrder/Item**
Model	**ItemURN{0,1}** , **GUIDs{0,1}** , **Qty{0,1}** , **CustomerProductCode{0,1}** , **Length** , **Weight{0,1}** , **Thickness{0,1}** , **Materials** , **Projects{0,1}** , **Sequence{0,1}** , **AdditionalFile*** , **Shape** , **Size** , **Grade** , **Service{0,1}** , **SupplementalRequirements{0,1}** , **Schedule** , **PricingInformation** , **CommentForItem{0,1}**

Source	`<xs:complexType name="etItem">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tItem">`
	`  <xs:sequence>`
	`  <xs:element minOccurs="0" name="ItemURN" type="tItemURN"/>`
	`  <xs:element minOccurs="0" name="GUIDs" type="tGuids"/>`
	`  <xs:element minOccurs="0" name="Qty" type="tOrderUnit"/>`
	`  <xs:element minOccurs="0" name="CustomerProductCode" type="xs:string"/>`

```
        <xs:element minOccurs="1" name="Length" type="tLength"/>
        <xs:element minOccurs="0" name="Weight"
type="tWeightWithQualifier"/>
        <xs:element minOccurs="0" name="Thickness" type="tLength"/>
        <xs:element name="Materials" type="etMaterial" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Projects" type="tMaterialProject"
minOccurs="0" maxOccurs="1"/>
        <xs:element minOccurs="0" maxOccurs="1" name="Sequence"
type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="unbounded"
name="AdditionalFile" type="xs:anyURI"/>
        <xs:element name="Shape" type="xs:token" minOccurs="1"/>
        <xs:element name="Size" type="xs:token" minOccurs="1"/>
        <xs:element name="Grade" type="tGrade" minOccurs="1"/>
        <xs:element minOccurs="0" name="Service" type="tService"/>
        <xs:element minOccurs="0" maxOccurs="1"
name="SupplementalRequirements" type="tSupplementalRequirements"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Schedule"
type="etSchedule"/>
        <xs:element minOccurs="1" maxOccurs="1"
name="PricingInformation" type="etPricingInformation"/>
        <xs:element name="CommentForItem" type="tItemCommentLength"
minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

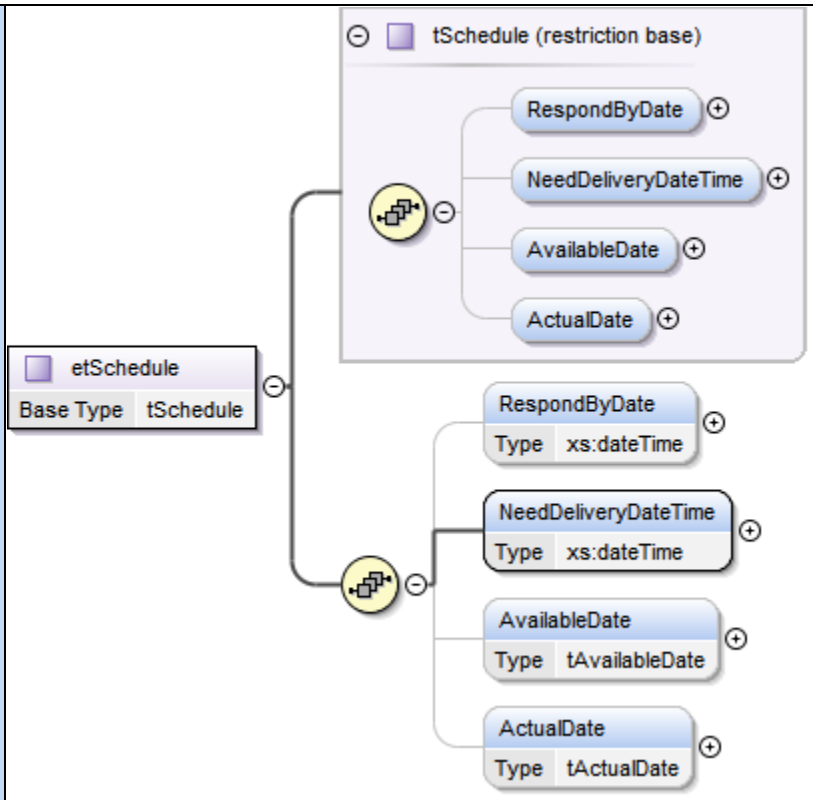
5.12 etMaterial

Diagram



Type	restriction of **tMaterial**
Type hierarchy	**tMaterial** **etMaterial**
Used by	Element **etItem/Materials**
Model	**PreliminaryPieceMarks*** , **FinalPieceMarks*** , **ReceivingLocation*** , **BundleOrPieceTagNumber***
Source	<xs:complexType name="etMaterial"> <xs:complexContent> <xs:restriction base="tMaterial"> <xs:sequence> <xs:element name="PreliminaryPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="FinalPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="ReceivingLocation" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="BundleOrPieceTagNumber" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

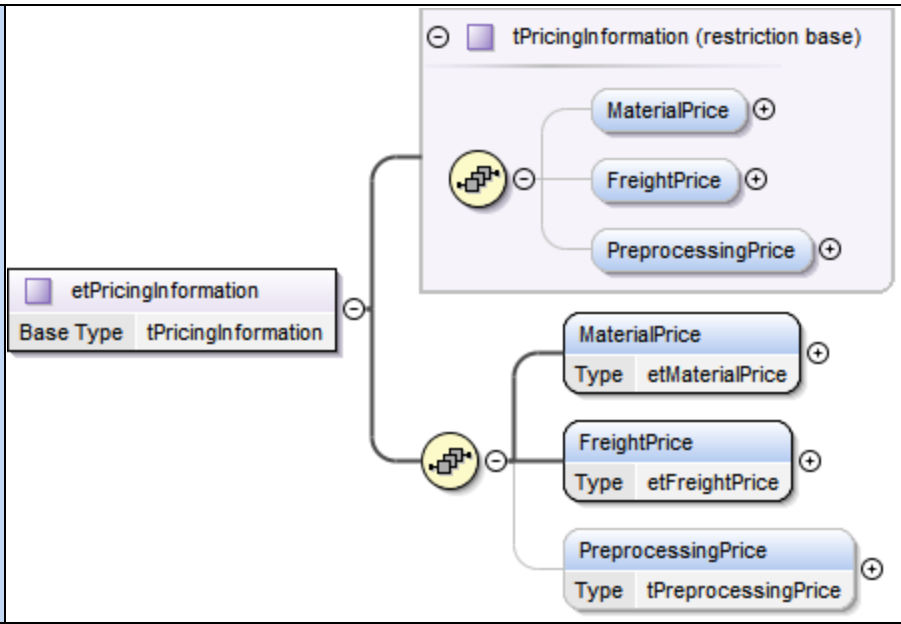
5.13 etSchedule

Diagram	
Type	restriction of **tSchedule**
Type hierarchy	**tSchedule**

	etSchedule
Used by	Element **etItem/Schedule**
Model	**RespondByDate{0,1}** , **NeedDeliveryDateTime** , **AvailableDate{0,1}** , **ActualDate{0,1}**

Source	`<xs:complexType name="etSchedule">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tSchedule">`
	`  <xs:sequence>`
	`  <xs:element name="RespondByDate" type="xs:dateTime" minOccurs="0"/>`
	`  <xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="AvailableDate" type="tAvailableDate" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="ActualDate" type="tActualDate" minOccurs="0" maxOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:restriction>`
	`  </xs:complexContent>`
	`</xs:complexType>`

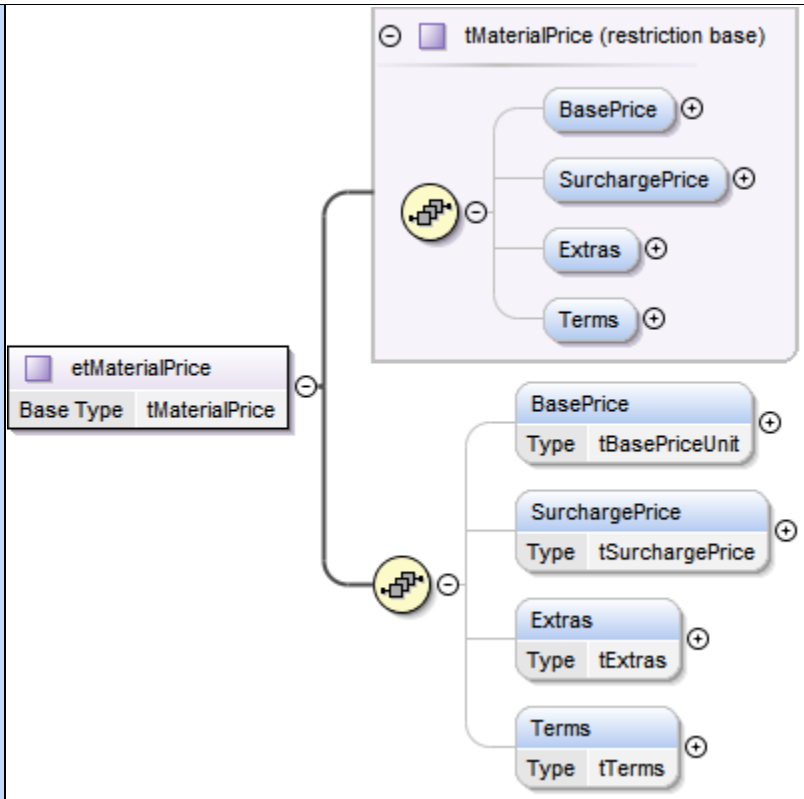
5.14 etPricingInformation

Diagram	
Type	restriction of **tPricingInformation**
Type hierarchy	**tPricingInformation** **etPricingInformation**
Used by	Element **etItem/PricingInformation**
Model	**MaterialPrice** , **FreightPrice** , **PreprocessingPrice{0,1}**

Source	`<xs:complexType name="etPricingInformation">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tPricingInformation">`
	`  <xs:sequence>`

```
        <xs:element name="MaterialPrice" type="etMaterialPrice"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="FreightPrice" type="etFreightPrice"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="PreprocessingPrice"
type="tPreprocessingPrice" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

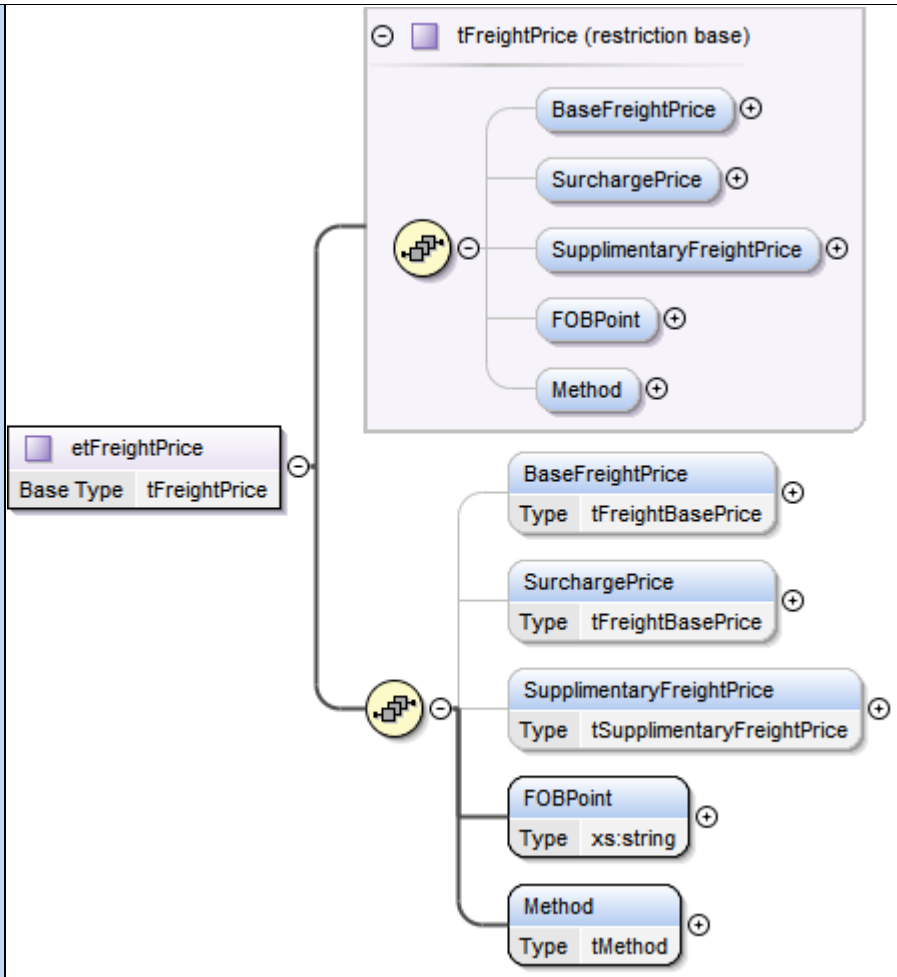
5.15 etMaterialPrice

Diagram	
Type	restriction of **tMaterialPrice**
Type hierarchy	**tMaterialPrice** **etMaterialPrice**
Used by	Element **etPricingInformation/MaterialPrice**
Model	**BasePrice{0,1}** , **SurchargePrice{0,1}** , **Extras{0,1}** , **Terms{0,1}**

Source	`<xs:complexType name="etMaterialPrice">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tMaterialPrice">`
	`  <xs:sequence>`
	`  <xs:element name="BasePrice" type="tBasePriceUnit" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="SurchargePrice" type="tSurchargePrice" minOccurs="0" maxOccurs="1"/>`
	`  <xs:element name="Extras" type="tExtras" minOccurs="0" maxOccurs="1"/>`

	<xs:element name="Terms" type="tTerms" minOccurs="0" maxOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

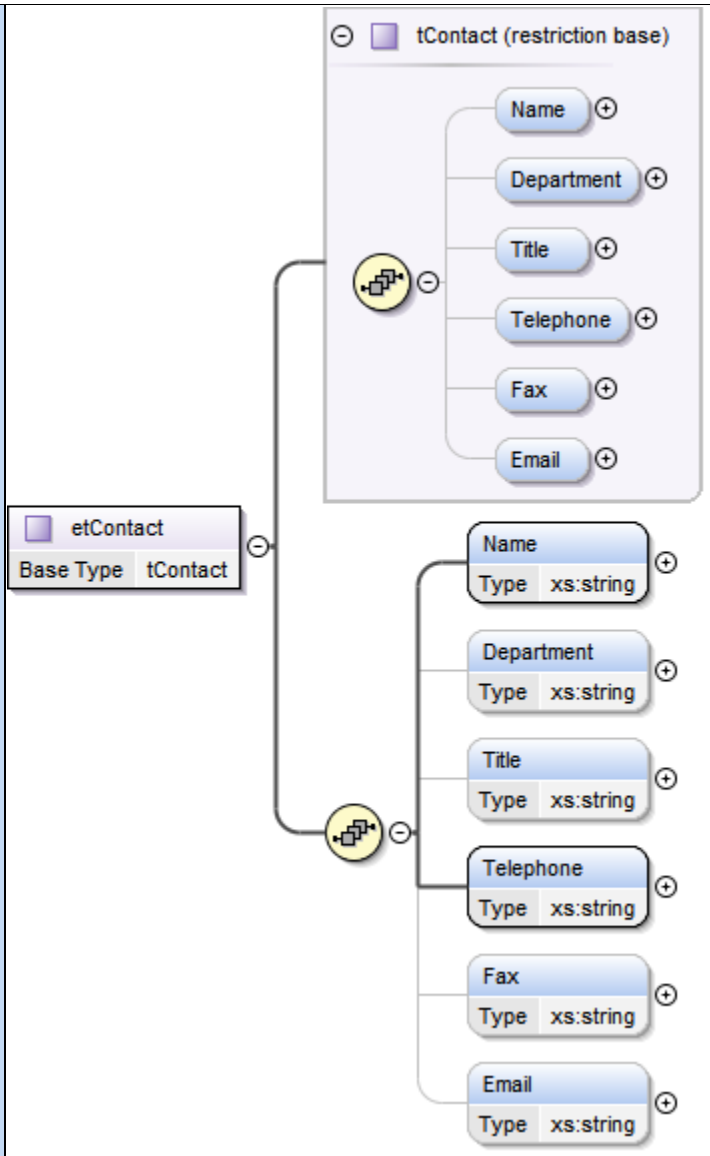
5.16 etFreightPrice

Diagram	
Type	restriction of **tFreightPrice**
Type hierarchy	**tFreightPrice** **etFreightPrice**
Used by	Element **etPricingInformation/FreightPrice**
Model	**BaseFreightPrice{0,1}** , **SurchargePrice{0,1}** , **SupplimentaryFreightPrice{0,1}** , **FOBPoint** , **Method**
Source	<xs:complexType name="etFreightPrice"> <xs:complexContent> <xs:restriction base="tFreightPrice"> <xs:sequence> <xs:element name="BaseFreightPrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/> <xs:element name="SurchargePrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/>

```
        <xs:element name="SupplimentaryFreightPrice"
type="tSupplimentaryFreightPrice" minOccurs="0" maxOccurs="1"/>
        <xs:element name="FOBPoint" type="xs:string" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Method" type="tMethod" minOccurs="1"
maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

5.17 etContact

Diagram



Type	restriction of **tContact**
Type hierarchy	**tContact** **etContact**
Model	**Name** , **Department{0,1}** , **Title{0,1}** , **Telephone** , **Fax{0,1}** , **Email{0,1}**

Source	<xs:complexType name="etContact"> <xs:complexContent> <xs:restriction base="tContact"> <xs:sequence> <xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/> <xs:element name="Department" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element name="Title" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element name="Telephone" type="xs:string" minOccurs="1" maxOccurs="1"/> <xs:element name="Fax" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element name="Email" type="xs:string" minOccurs="0" maxOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>