steelXML

The Common XML Schema for the Electronic Procurement of Structural Steel

Volume 5. Purchase Order

Version 1.0

American Institute of Steel Construction

Georgia Institute of Technology

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Digital Building Laboratory, College of Architecture
Georgia Institute of Technology
245 4th St. NW
Atlanta, GA., 30332-0155
http://dbl.coa.gatech.edu

Technical Working Group

Group Leaders

Chris Moor	Ficep Group/Steel Projects
Luke Faulkner	AISC
Matt Gomez	Gerdau

Group Members

Adrian Matlack	FabSuite
Alan Goldenberg	Independence Tube
Audra Dollahan	Nucor
Bart Van de Plas	Scia
Brian Newman	EXLTube
Carlos Esparza	Gerdau
Chris Fischer	Schuff Steel
Christophe Malosse	Steel Projects
Charles Eastman	Georgia Institute of Technology
Dan Dworak	EXLTube
Ed Braig	CTIW
John Lusdyck	Infra-Metals
Larry Ott	Brown Strauss
Lonny Johnson	FabTrol
Max Powell	PDM Steel
Mike Gustafson	Autodesk
Nigel West	FabTrol
Peter LaBella	Infra-Metals
Scott Reinhardt	Nucor
Simon Inman	Acecad/StruMis
Tim Schmitz	Gerdau
Will Stoner	Infra-Metals

Schema Developers

Donghoon Yang	Georgia Institute of Technology
YongCheol Lee	Georgia Institute of Technology

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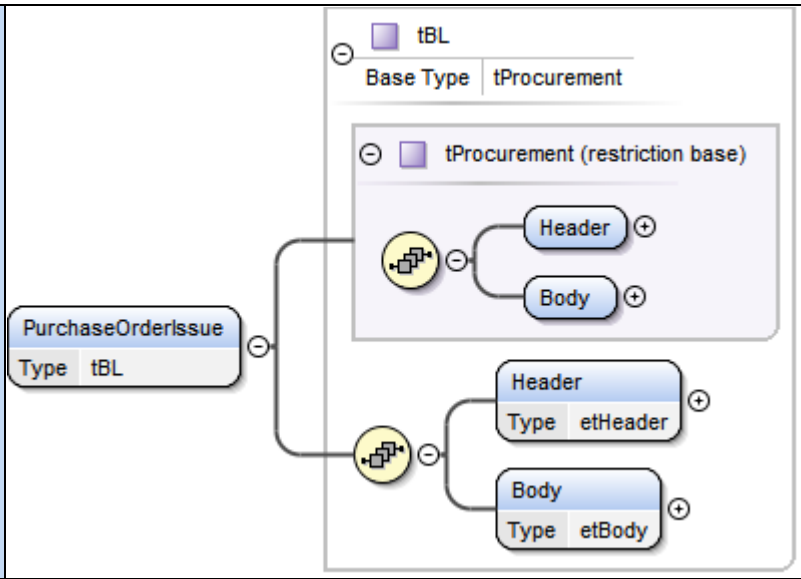
1 Overview

This document describes Purchase Order Issue Schema and Purchase Order Issue Schema.

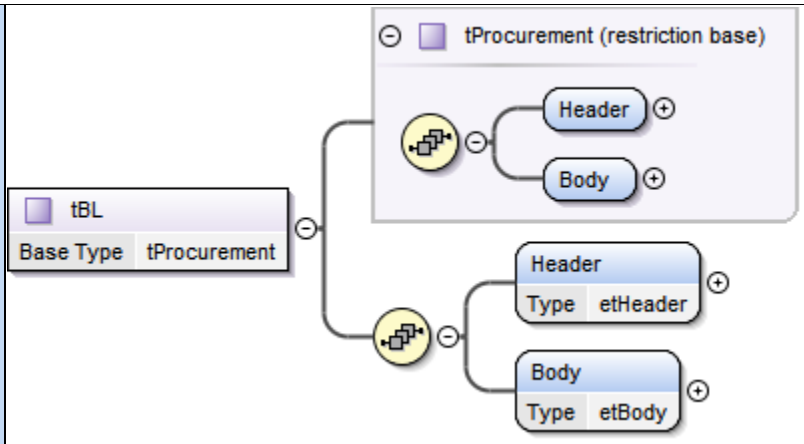
2 Element in Purchase Order Issue Schema

2.1 PurchaseOrderIssue

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

3 Complex Types in Purchase Order Issue Schema

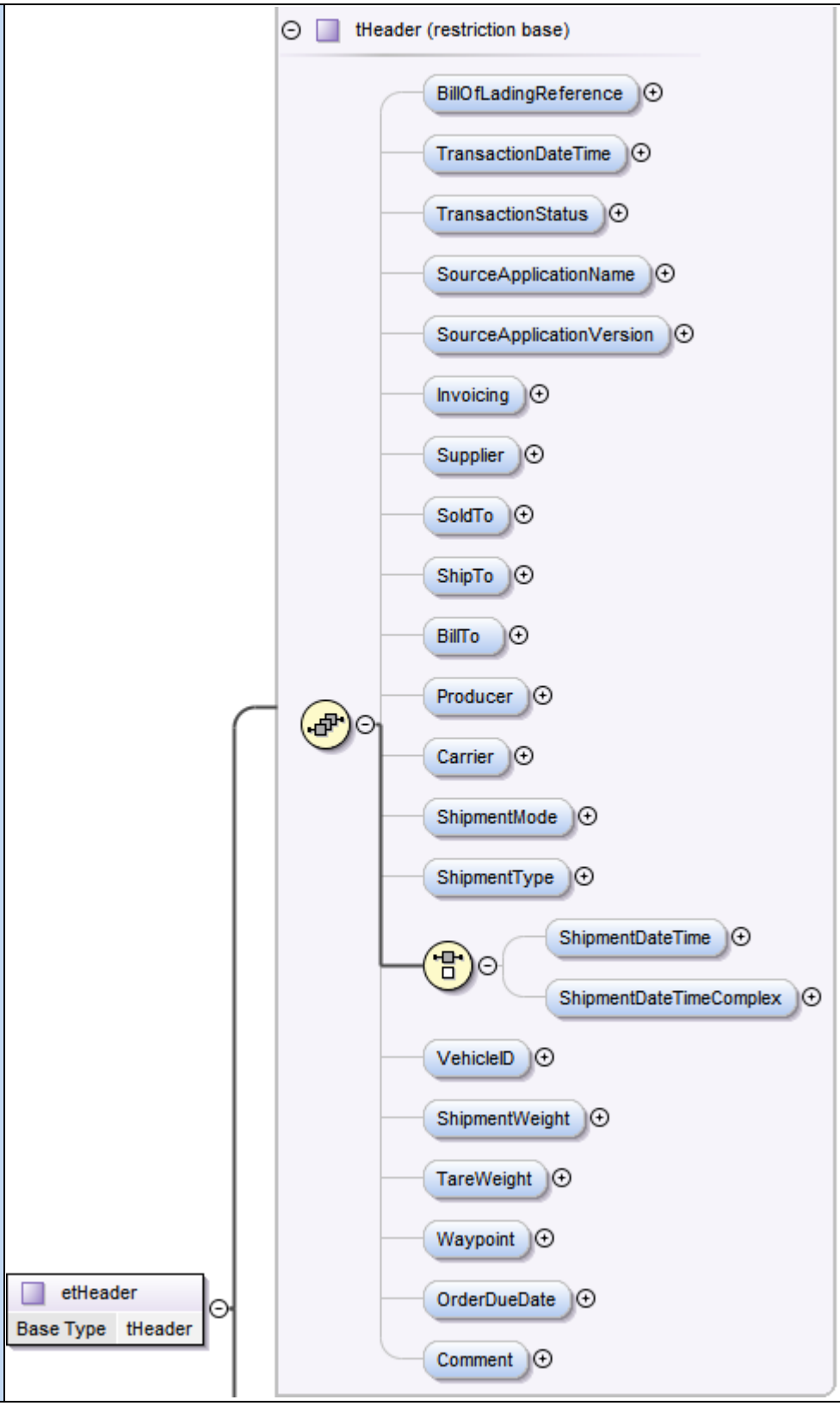
3.1 tBL

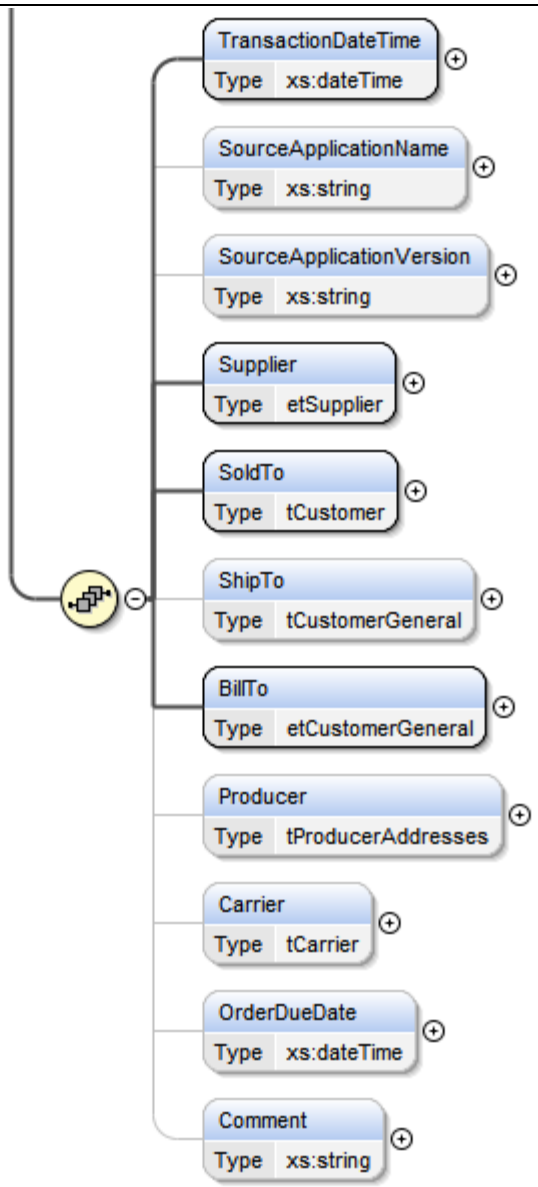
Diagram	
Type	restriction of **tProcurement**
Type hierarchy	**tProcurement** **tBL**
Used by	Element **PurchaseOrderIssue**
Model	**Header** , **Body**

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

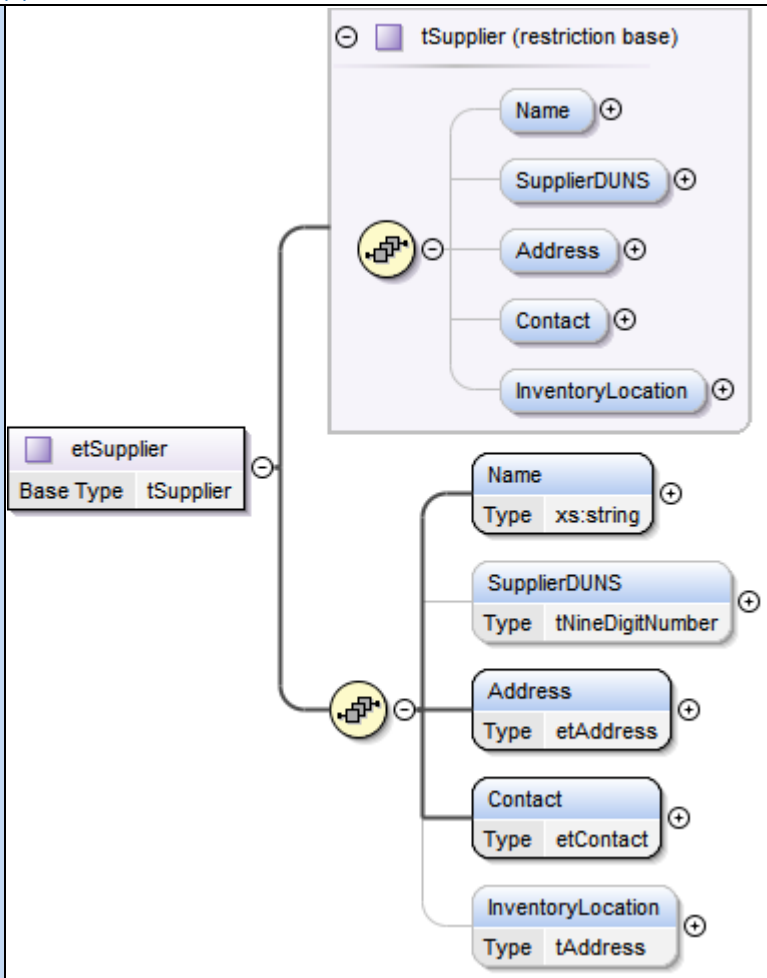


	
Type	restriction of **tHeader**
Type hierarchy	**tHeader** **etHeader**
Used by	Element **tBL/Header**
Model	**TransactionDateTime** , **SourceApplicationName{0,1}** , **SourceApplicationVersion{0,1}** , **Supplier** , **SoldTo** , **ShipTo{0,1}** , **BillTo** , **Producer{0,1}** , **Carrier{0,1}** , **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="etCustomerGeneral"
minOccurs="1" 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>
```

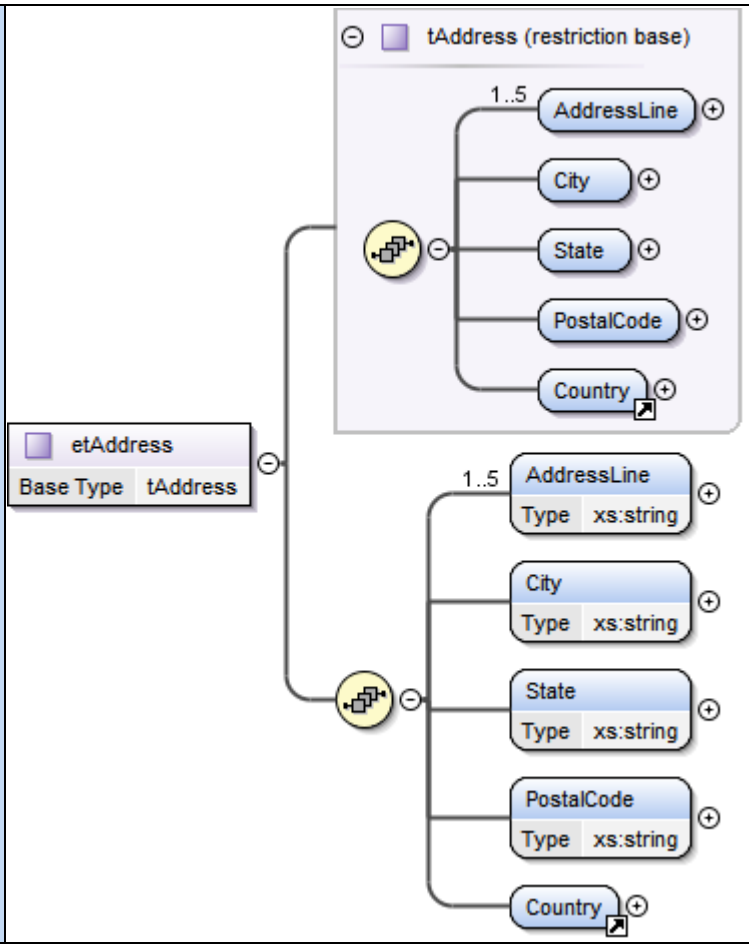
3.3 etSupplier

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="etAddress" 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>`

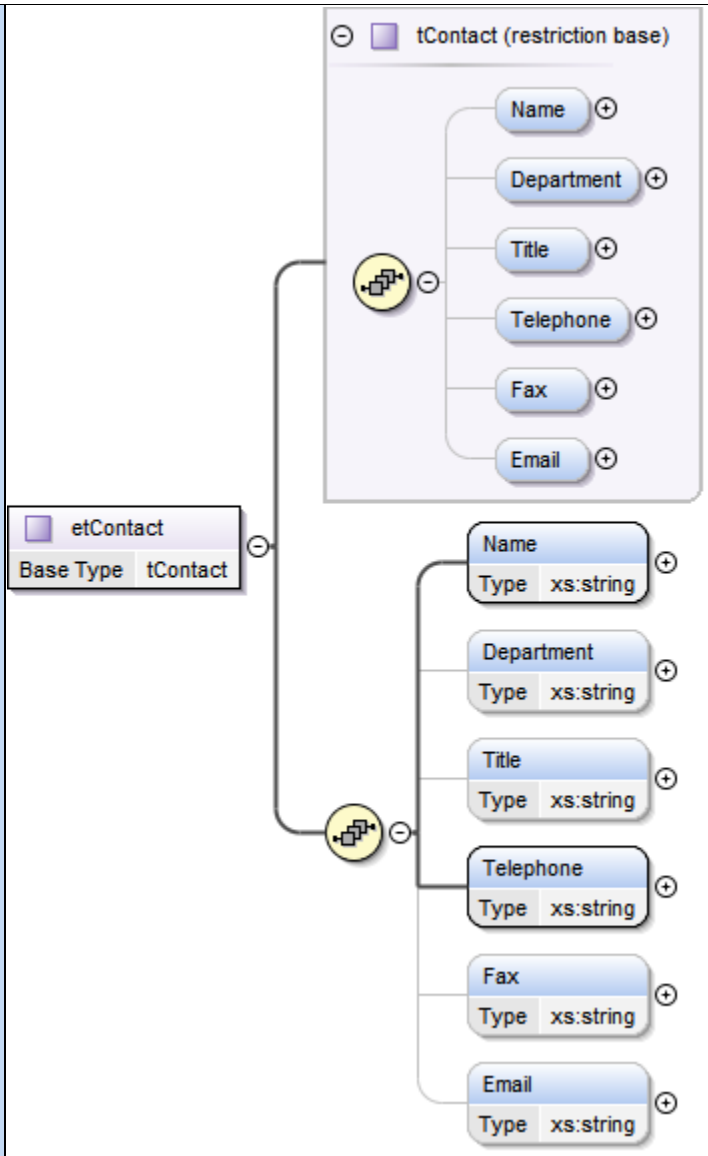
	</xs:restriction> </xs:complexContent> </xs:complexType>

3.4 etAddress

Diagram	
Type	restriction of **tAddress**
Type hierarchy	**tAddress** **etAddress**
Used by	Element **etSupplier/Address**
Model	**AddressLine{1,5}** , **City** , **State** , **PostalCode** , **Country**
Source	<xs:complexType name="etAddress"> <xs:complexContent> <xs:restriction base="tAddress"> <xs:sequence> <xs:element name="AddressLine" type="xs:string" maxOccurs="5"/> <xs:element name="City" type="xs:string"/> <xs:element name="State" type="xs:string"/> <xs:element name="PostalCode" type="xs:string"/> <xs:element ref="Country"/> </xs:sequence> </xs:restriction> </xs:complexContent>

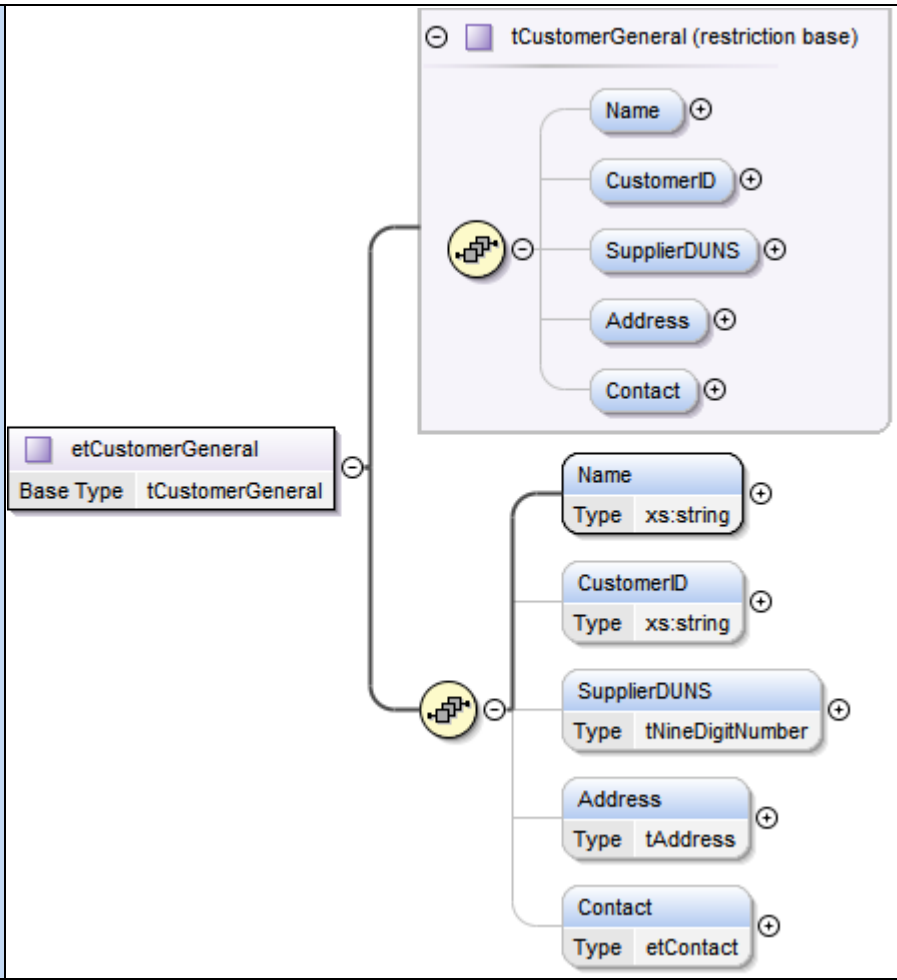
	</xs:complexType>

3.5 etContact

Diagram	
Type	restriction of **tContact**
Type hierarchy	**tContact** **etContact**
Used by	Elements **etCustomerGeneral/Contact**, **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"/>

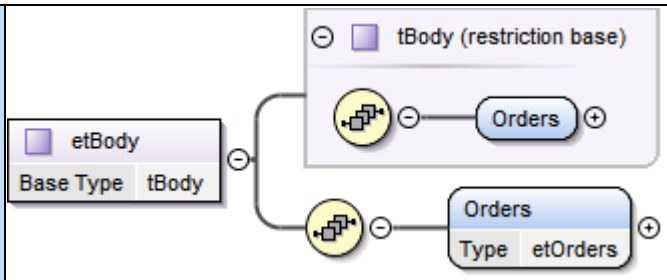
	<xs:element name="Title" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element name="Telephone" type="xs:string" minOccurs="1" maxOccurs="1"/> <xs:element name="Fax" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element name="Email" type="xs:string" minOccurs="0" maxOccurs="1"/> </xs:sequence>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

3.6 etCustomerGeneral

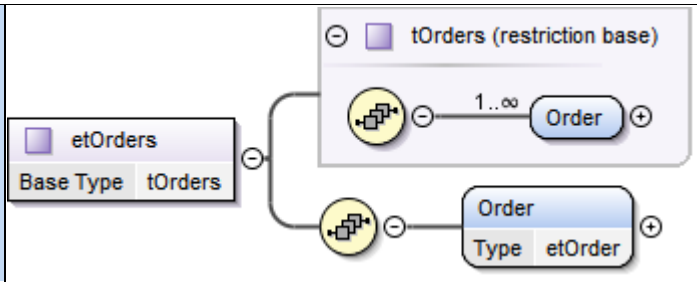
Diagram	
Type	restriction of **tCustomerGeneral**
Type hierarchy	**tCustomerGeneral** **etCustomerGeneral**
Used by	Element **etHeader/BillTo**
Model	**Name** , **CustomerID{0,1}** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}**
Source	<xs:complexType name="etCustomerGeneral"> <xs:complexContent>

	<xs:restriction base="tCustomerGeneral"> <xs:sequence> <xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/> <xs:element name="CustomerID" type="xs:string" minOccurs="0" maxOccurs="1"/> <xs:element minOccurs="0" name="SupplierDUNS" type="tNineDigitNumber"/> <xs:element name="Address" type="tAddress" minOccurs="0" maxOccurs="1"/> <xs:element name="Contact" type="etContact" minOccurs="0" maxOccurs="1"/> </xs:sequence> </xs:restriction> </xs:complexContent> </xs:complexType>

3.7 etBody

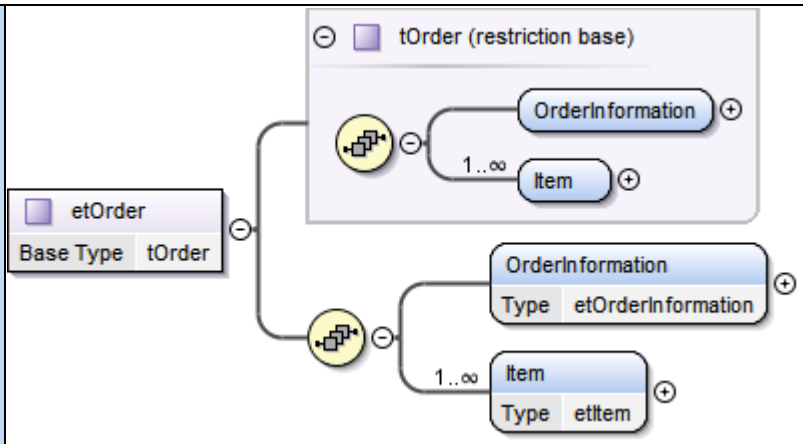
Diagram	
Type	restriction of **tBody**
Type hierarchy	**tBody** **etBody**
Used by	Element **tBL/Body**
Model	**Orders**
Source	<xs:complexType name="etBody"> <xs:complexContent> <xs:restriction base="tBody"> <xs:sequence> <xs:element maxOccurs="1" name="Orders" type="etOrders"/> </xs:sequence> </xs:restriction>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

3.8 etOrders

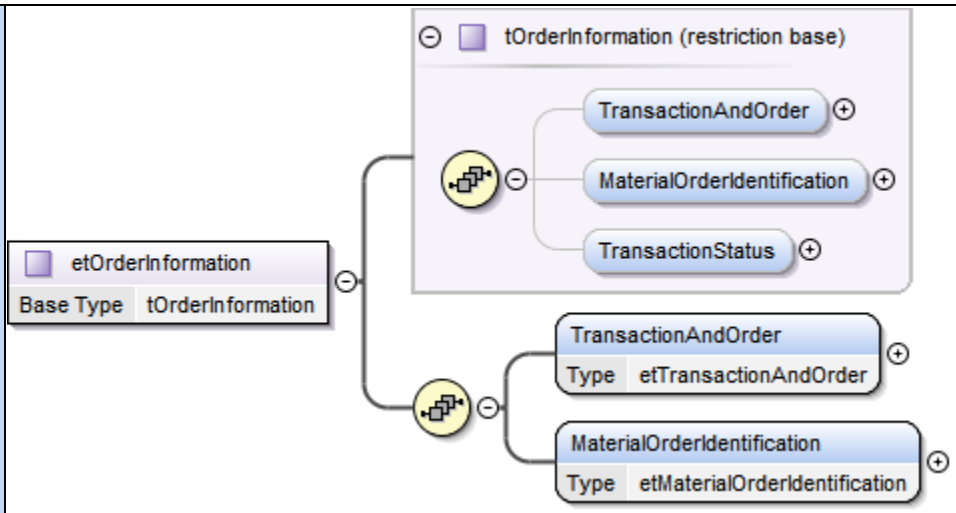
Diagram	
Type	restriction of **tOrders**

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>

3.9 etOrder

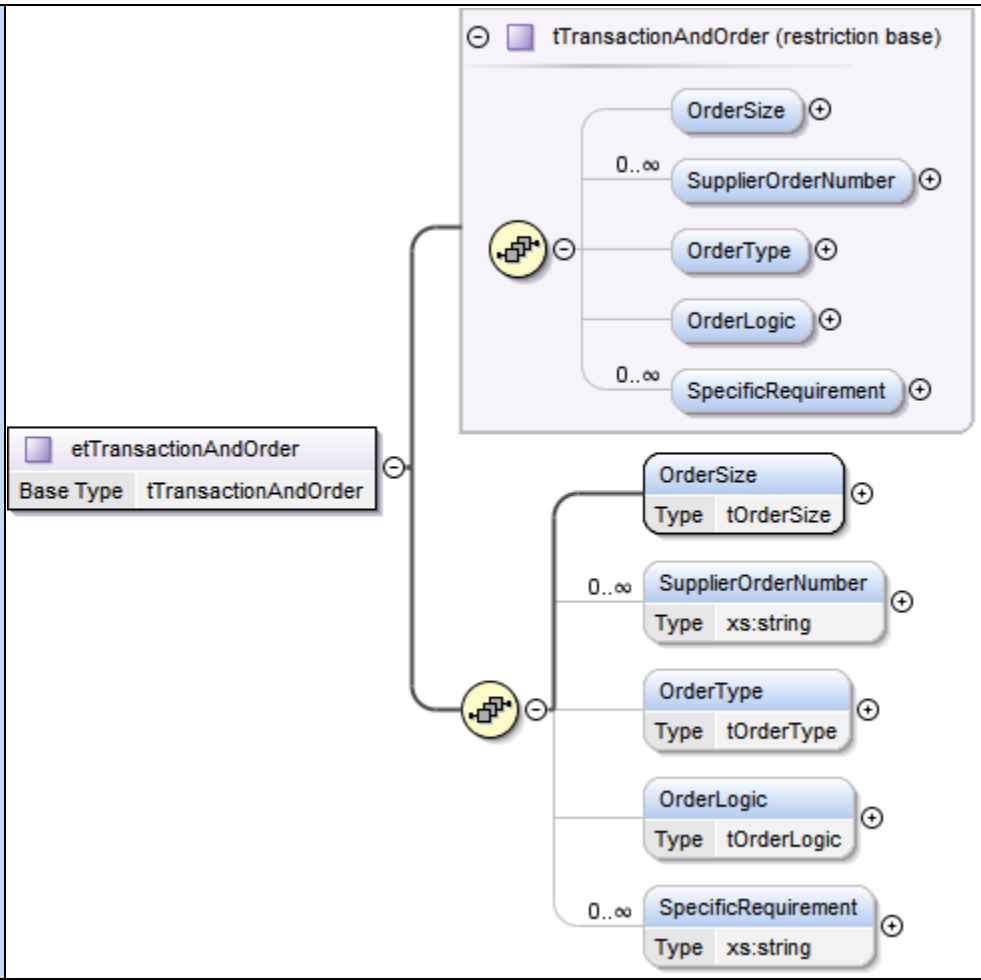
Diagram	
Type	restriction of **tOrder**
Type hierarchy	**tOrder** **etOrder**
Used by	Element **etOrders/Order**
Model	**OrderInformation , Item+**
Source	<xs:complexType name="etOrder"> <xs:complexContent> <xs:restriction base="tOrder"> <xs:sequence> <xs:element minOccurs="1" name="OrderInformation"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

3.10 etOrderInformation

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

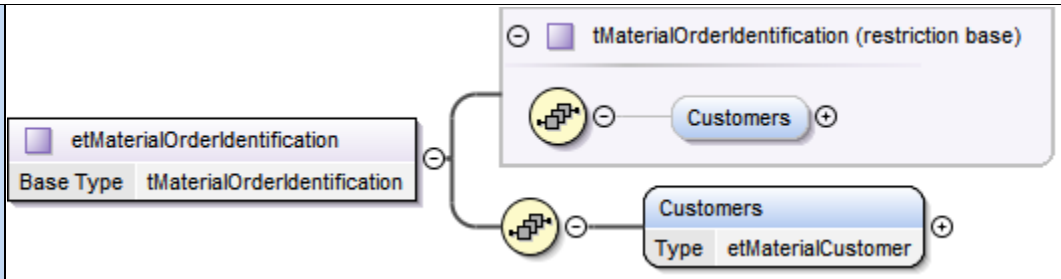
Source	`<xs:complexType name="etOrderInformation">`
	`<xs:complexContent>`
	`<xs:restriction base="tOrderInformation">`
	`<xs:sequence>`
	`<xs:element name="TransactionAndOrder" type="etTransactionAndOrder" minOccurs="1" maxOccurs="1"/>`
	`<xs:element name="MaterialOrderIdentification" type="etMaterialOrderIdentification"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

3.11 etTransactionAndOrder

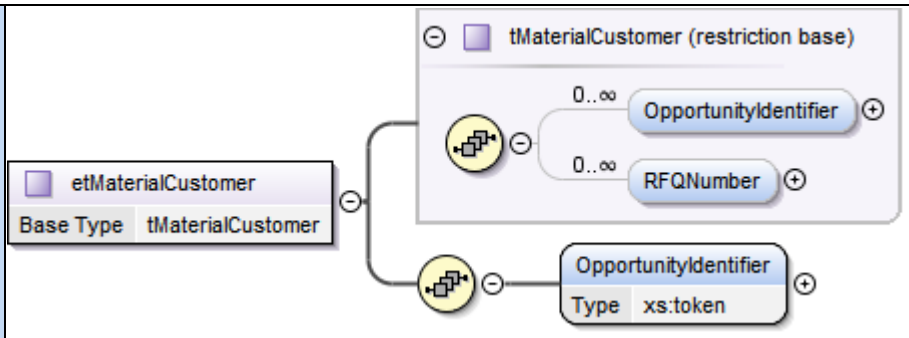
Diagram	
Type	restriction of **tTransactionAndOrder**
Type hierarchy	**tTransactionAndOrder** **etTransactionAndOrder**
Used by	Element **etOrderInformation/TransactionAndOrder**
Model	**OrderSize** , **SupplierOrderNumber*** , **OrderType{0,1}** , **OrderLogic{0,1}** , **SpecificRequirement***
Source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

3.12 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>

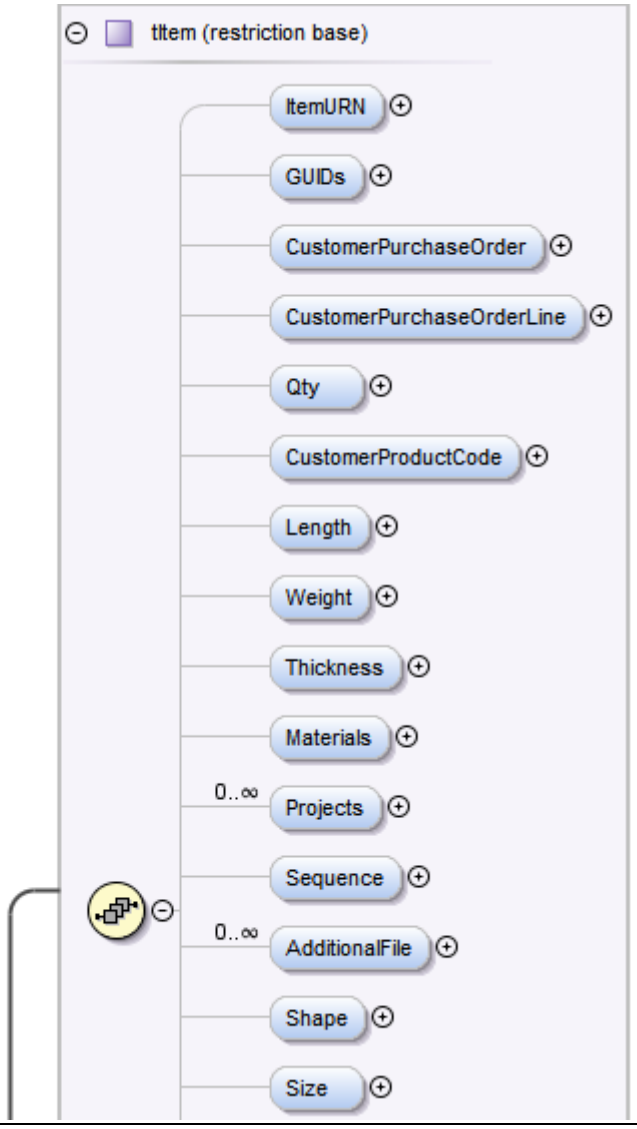
3.13 etMaterialCustomer

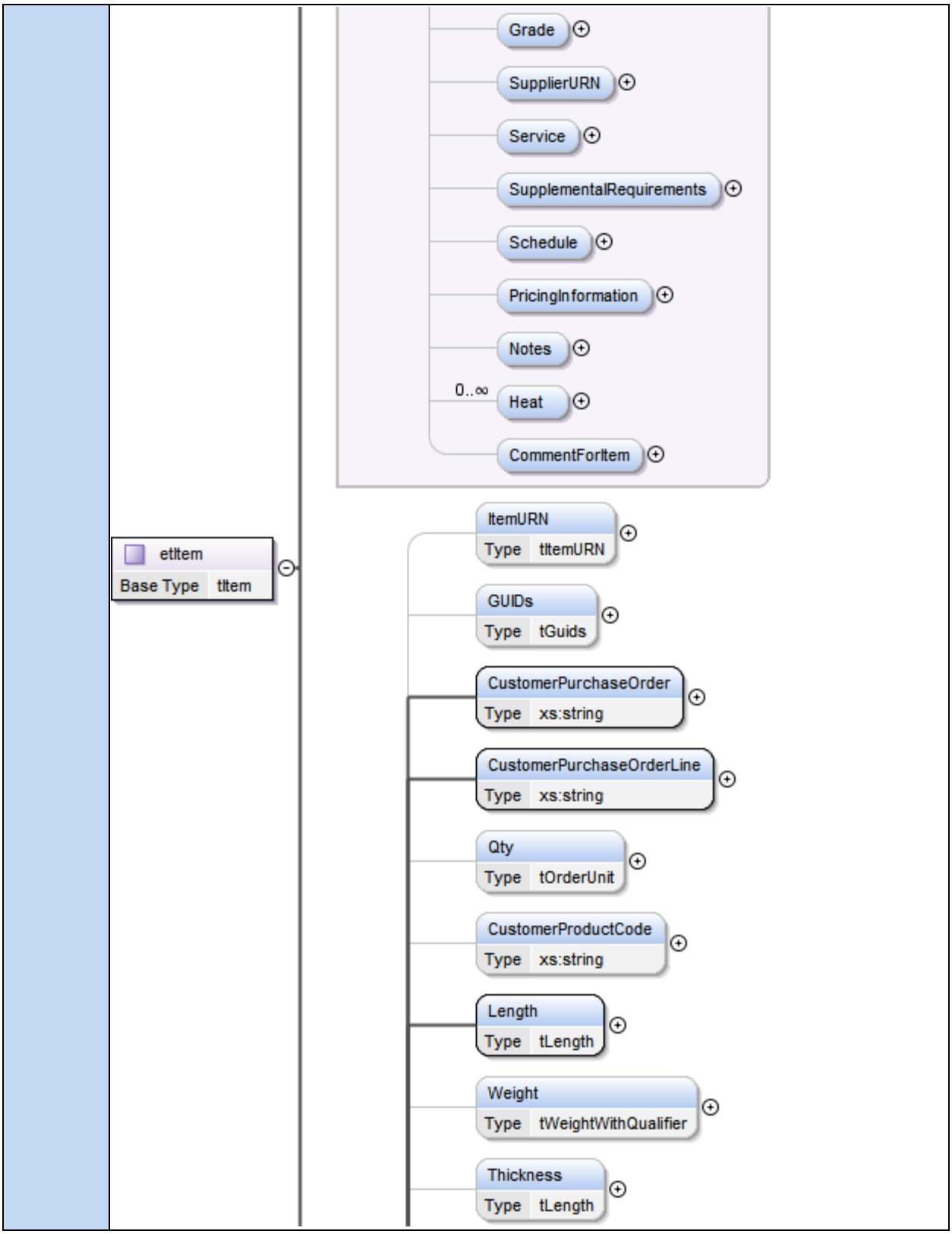
Diagram	
Type	restriction of **tMaterialCustomer**
Type hierarchy	**tMaterialCustomer** **etMaterialCustomer**
Used by	Element **etMaterialOrderIdentification/Customers**
Model	**OpportunityIdentifier**
Source	<xs:complexType name="etMaterialCustomer"> <xs:complexContent> <xs:restriction base="tMaterialCustomer">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

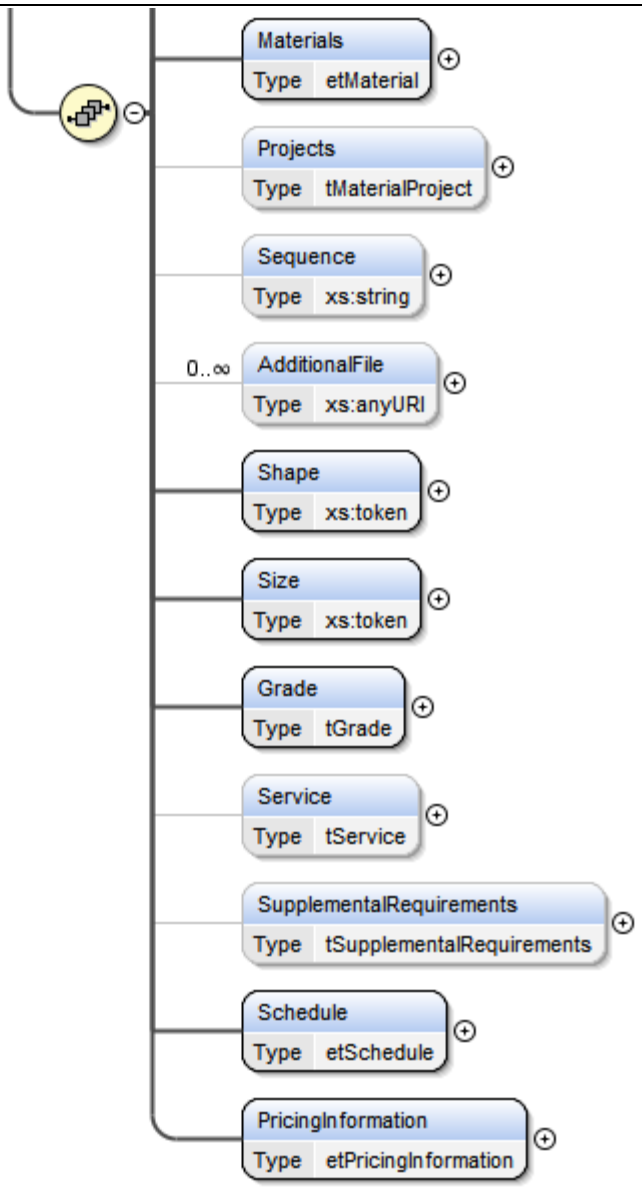
```
        <xs:element name="OpportunityIdentifier" type="xs:token"
minOccurs="1" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

3.14 etItem

Diagram



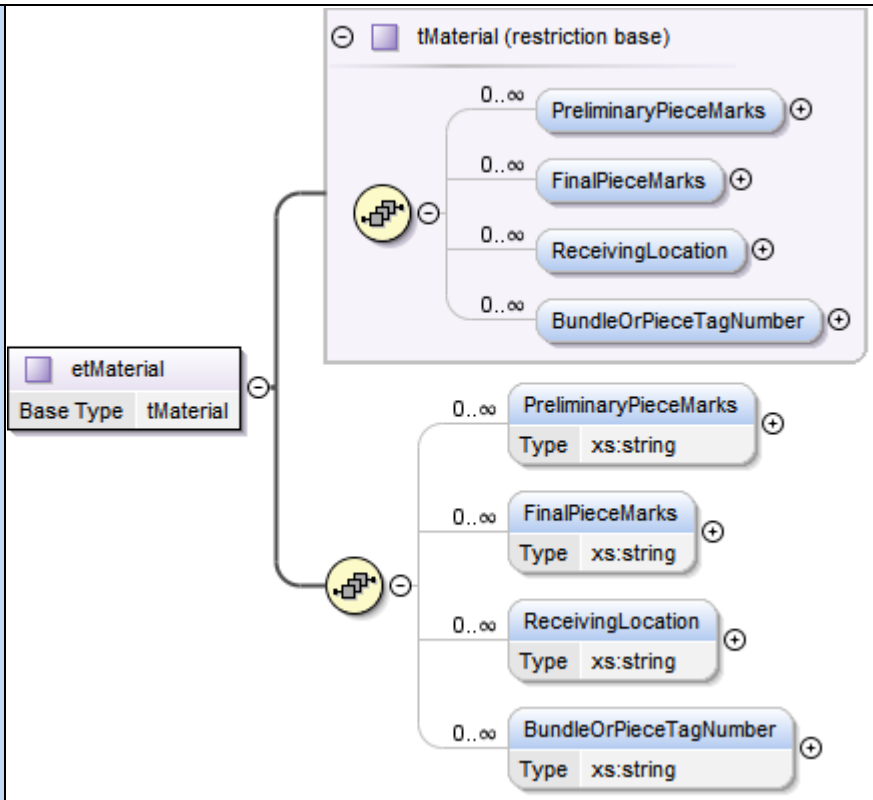

Grade
SupplierURN
Service
SupplementalRequirements
Schedule
PricingInformation
Notes
0..∞
Heat
CommentForItem
etItem
Base Type tItem
ItemURN
Type tItemURN
GUIDs
Type tGuids
CustomerPurchaseOrder
Type xs:string
CustomerPurchaseOrderLine
Type xs:string
Qty
Type tOrderUnit
CustomerProductCode
Type xs:string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

	
Type	restriction of **tItem**
Type hierarchy	**tItem** **etItem**
Used by	Element **etOrder/Item**
Model	**ItemURN{0,1}** , **GUIDs{0,1}** , **CustomerPurchaseOrder** , **CustomerPurchaseOrderLine** , **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**

Source	`<xs:complexType name="etItem">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tItem">`
	`  <xs:sequence>`
	`  <xs:element minOccurs="0" name="ItemURN" type="tItemURN"/>`

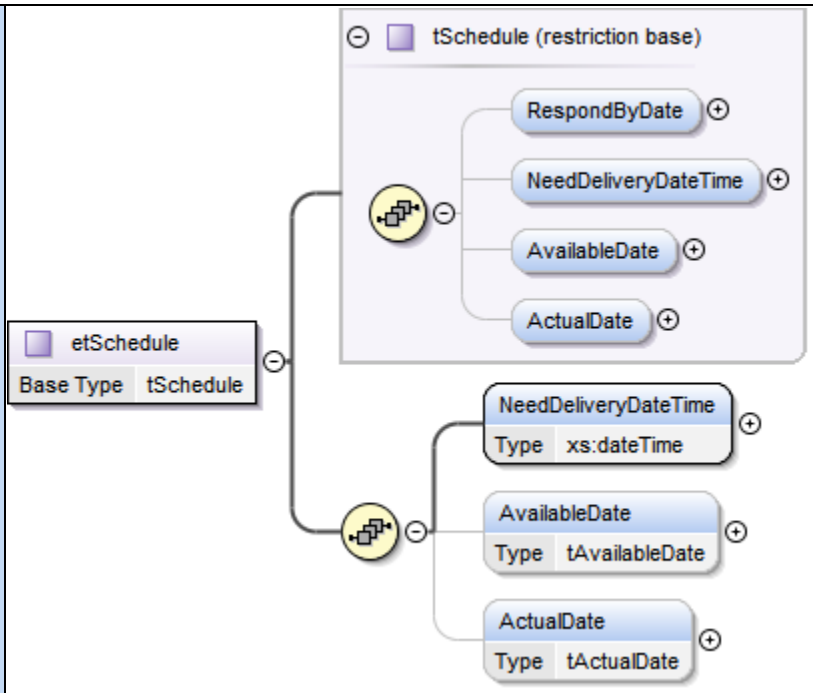
```
        <xs:element name="GUIDs" type="tGuids" minOccurs="0"/>
        <xs:element minOccurs="1" name="CustomerPurchaseOrder"
type="xs:string"/>
        <xs:element minOccurs="1" name="CustomerPurchaseOrderLine"
type="xs:string"/>
        <xs:element minOccurs="0" name="Qty" type="tOrderUnit"/>
        <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:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

3.15 etMaterial

Diagram	
Type	restriction of **tMaterial**
Type hierarchy	**tMaterial** **etMaterial**
Used by	Element **etItem/Materials**
Model	**PreliminaryPieceMarks*** , **FinalPieceMarks*** , **ReceivingLocation*** , **BundleOrPieceTagNumber***

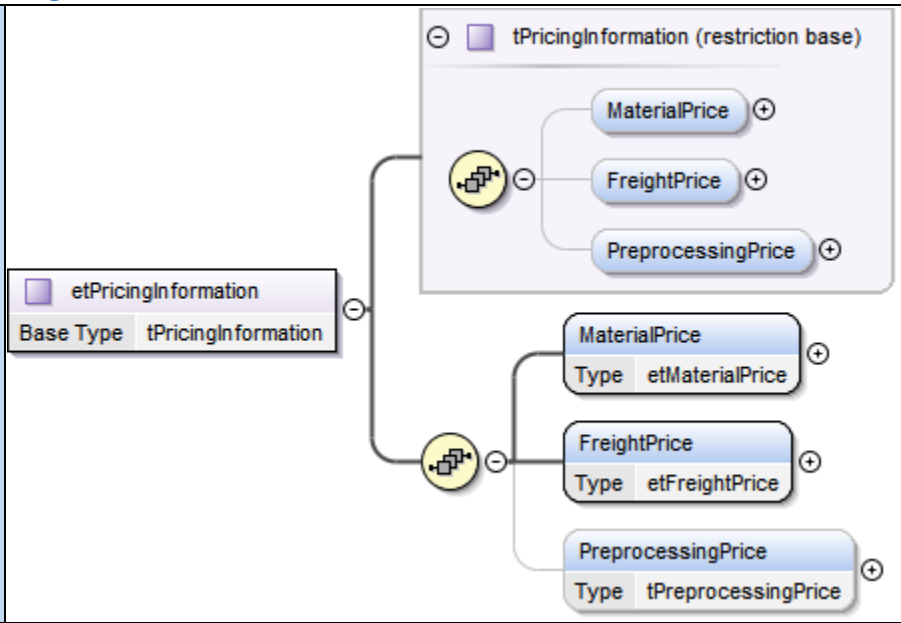
Source	`<xs:complexType name="etMaterial">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tMaterial">`
	`  <xs:sequence>`
	`  <xs:element name="PreliminaryPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  <xs:element name="FinalPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  <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>`

3.16 etSchedule

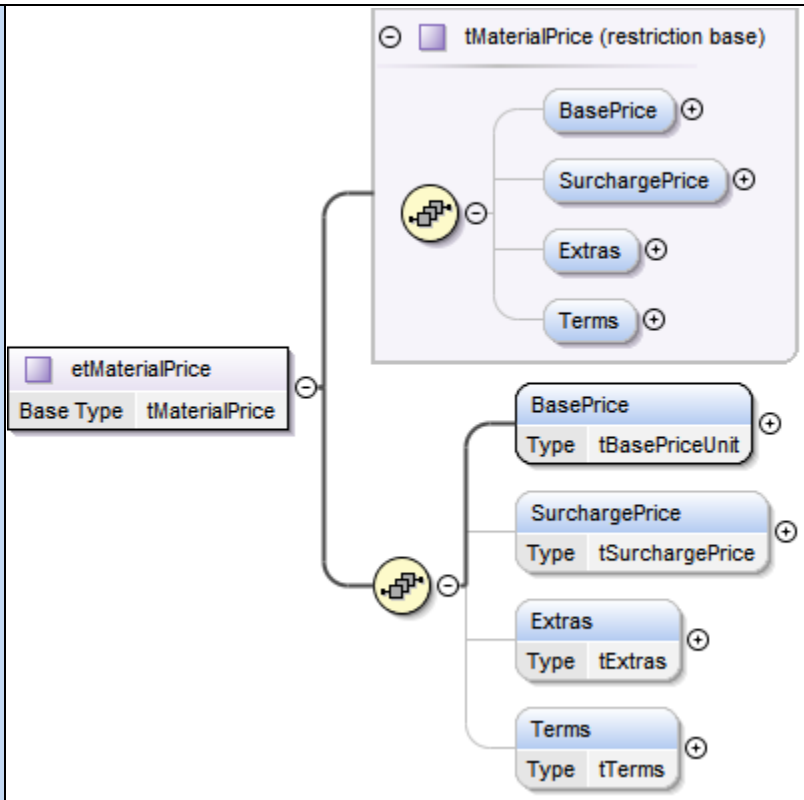
Diagram	
Type	restriction of **tSchedule**
Type hierarchy	**tSchedule** **etSchedule**
Used by	Element **etItem/Schedule**
Model	**NeedDeliveryDateTime** , **AvailableDate{0,1}** , **ActualDate{0,1}**

Source	`<xs:complexType name="etSchedule">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tSchedule">`
	`  <xs:sequence>`
	`  <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>`

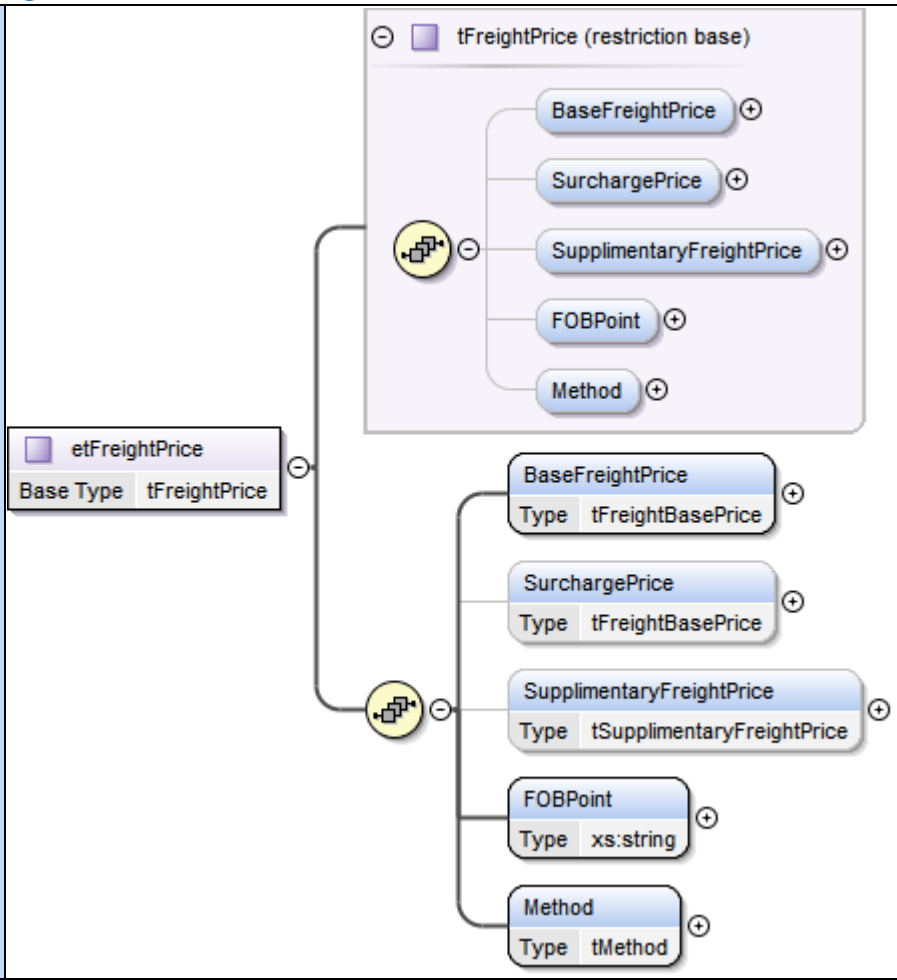
3.17 etPricingInformation

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>

3.18 etMaterialPrice

Diagram	
Type	restriction of **tMaterialPrice**
Type hierarchy	**tMaterialPrice** **etMaterialPrice**
Used by	Element **etPricingInformation/MaterialPrice**
Model	**BasePrice** , **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="1" 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>

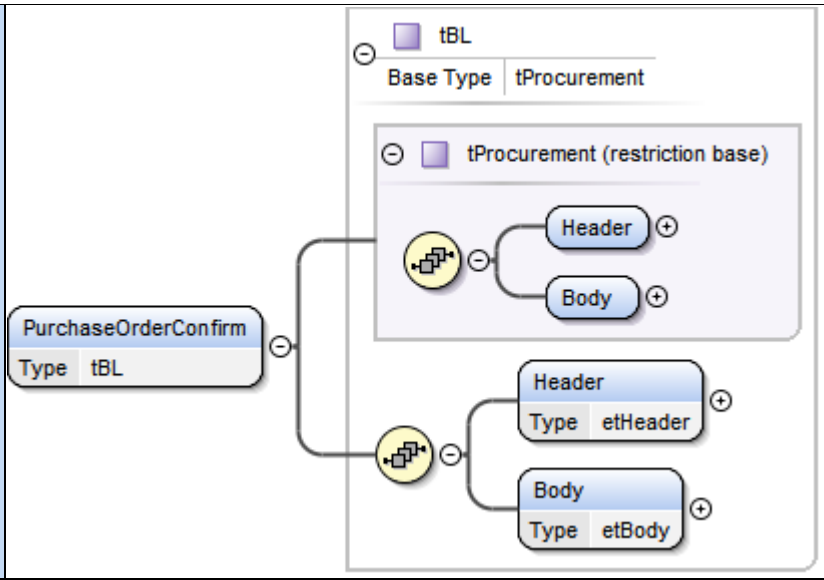
3.19 etFreightPrice

Diagram	
Type	restriction of **tFreightPrice**
Type hierarchy	**tFreightPrice** **etFreightPrice**
Used by	Element **etPricingInformation/FreightPrice**
Model	**BaseFreightPrice** , **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="1" 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 Purchase Order Confirm Schema

4.1 PurchaseOrderConfirm

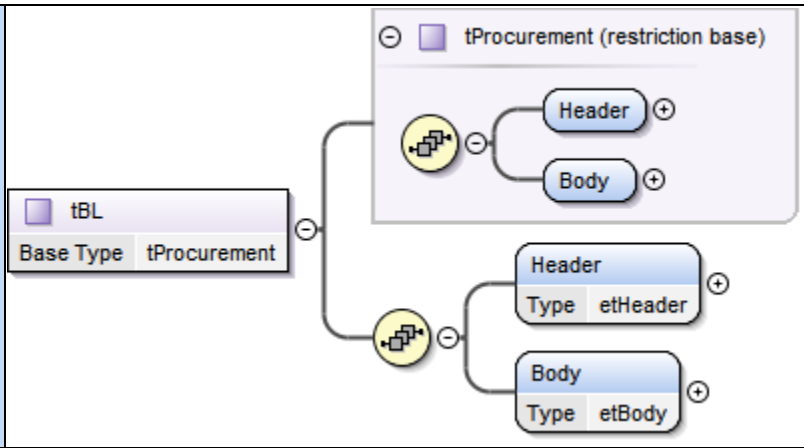
Diagram	
Type	**tBL**
Type hierarchy	**tProcurement** **tBL**
Properties	content: **complex**
Model	**Header** , **Body**

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

Source	`<xs:element name="PurchaseOrderConfirm" type="tBL"/>`

5 Complex Types in Purchase Order Confirm Schema

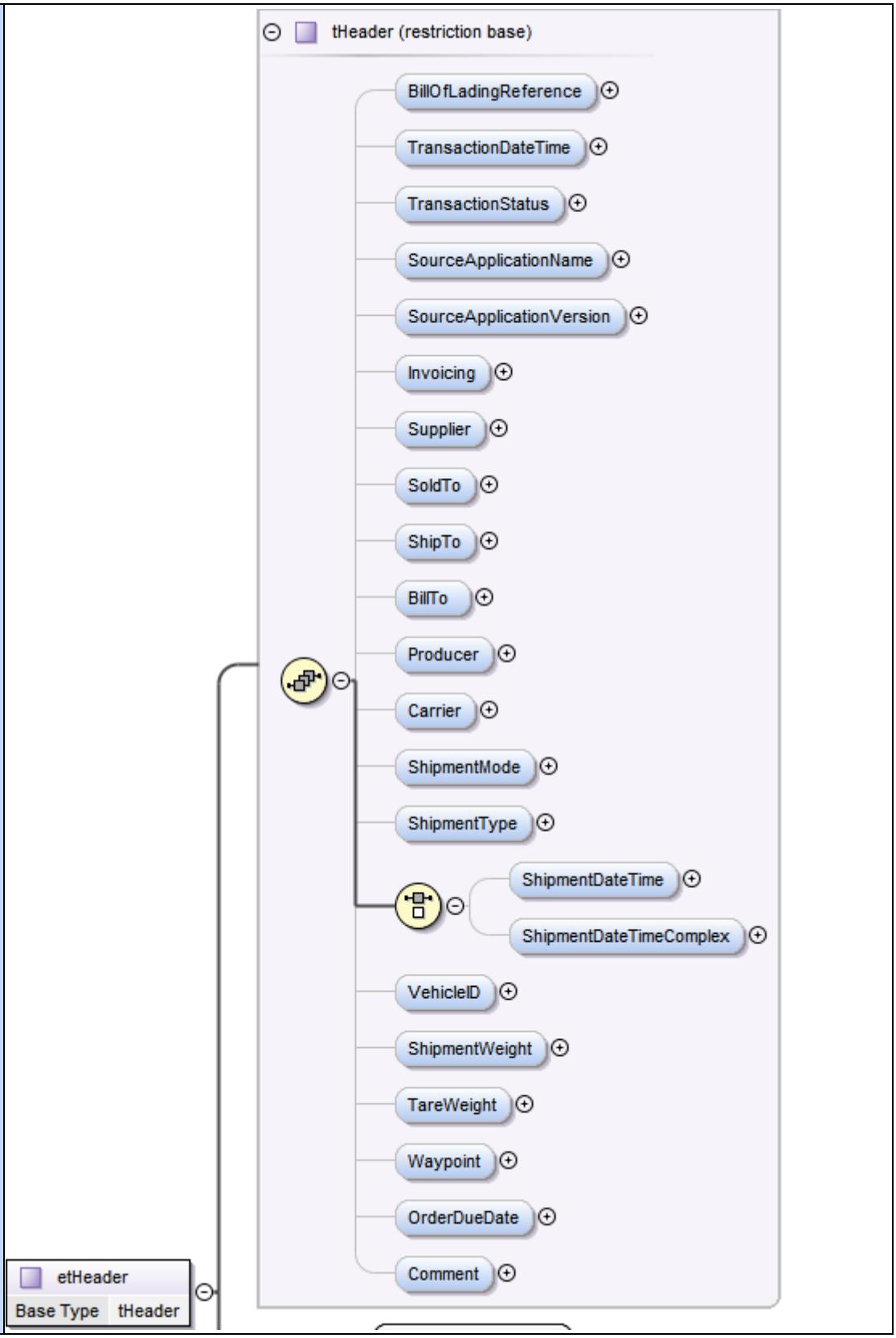
5.1 tBL

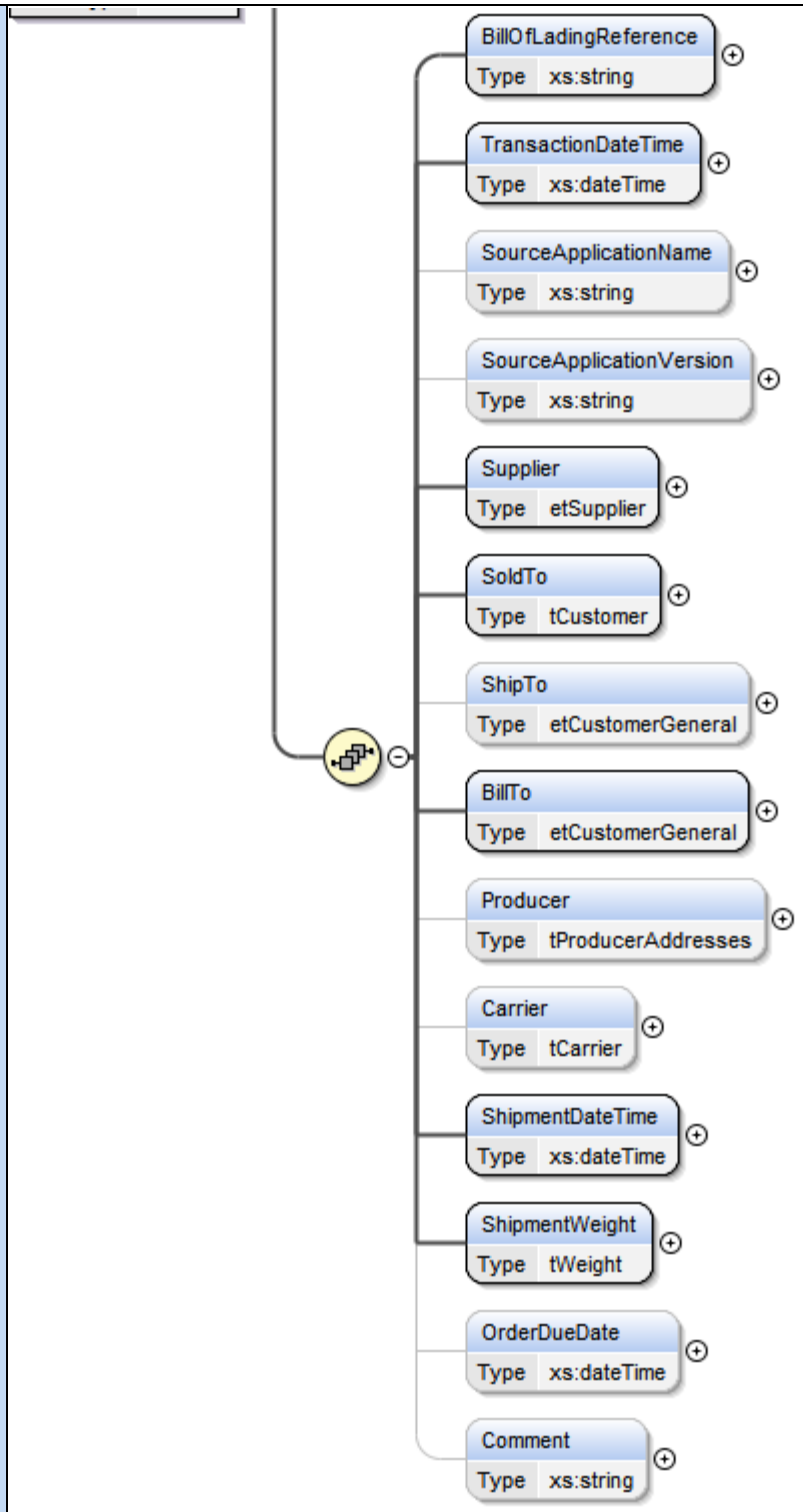
Diagram	
Type	restriction of **tProcurement**

Type hierarchy	**tProcurement** **tBL**
Used by	Element **PurchaseOrderConfirm**
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>

5.2 etHeader

Diagram

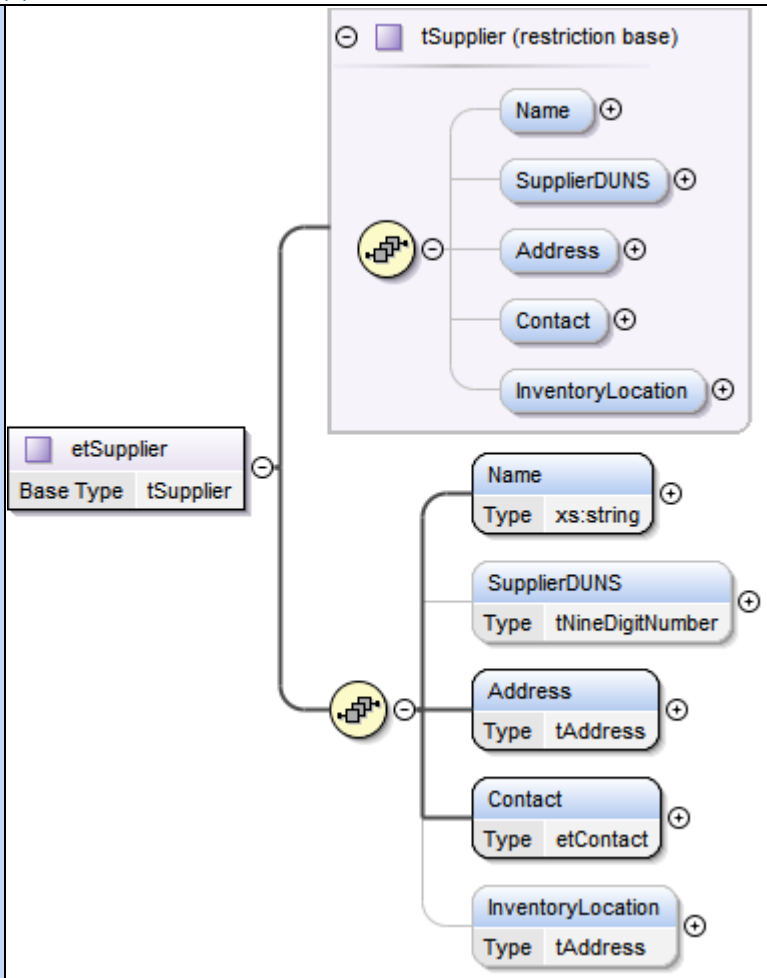




Type	restriction of **tHeader**
Type hierarchy	**tHeader** **etHeader**
Used by	Element **tBL/Header**

Model	**BillOfLadingReference , TransactionDateTime , SourceApplicationName{0,1} , SourceApplicationVersion{0,1} , Supplier , SoldTo , ShipTo{0,1} , BillTo , Producer{0,1} , Carrier{0,1} , ShipmentDateTime , ShipmentWeight , OrderDueDate{0,1} , Comment{0,1}**
Source	<xs:complexType name="etHeader"> <xs:complexContent> <xs:restriction base="tHeader"> <xs:sequence> <xs:element minOccurs="1" name="BillOfLadingReference" type="xs:string"/> <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="etCustomerGeneral" minOccurs="0" maxOccurs="1"/> <xs:element name="BillTo" type="etCustomerGeneral" minOccurs="1" 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="1" name="ShipmentDateTime" type="xs:dateTime"/> <xs:element minOccurs="1" name="ShipmentWeight" type="tWeight"/> <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>

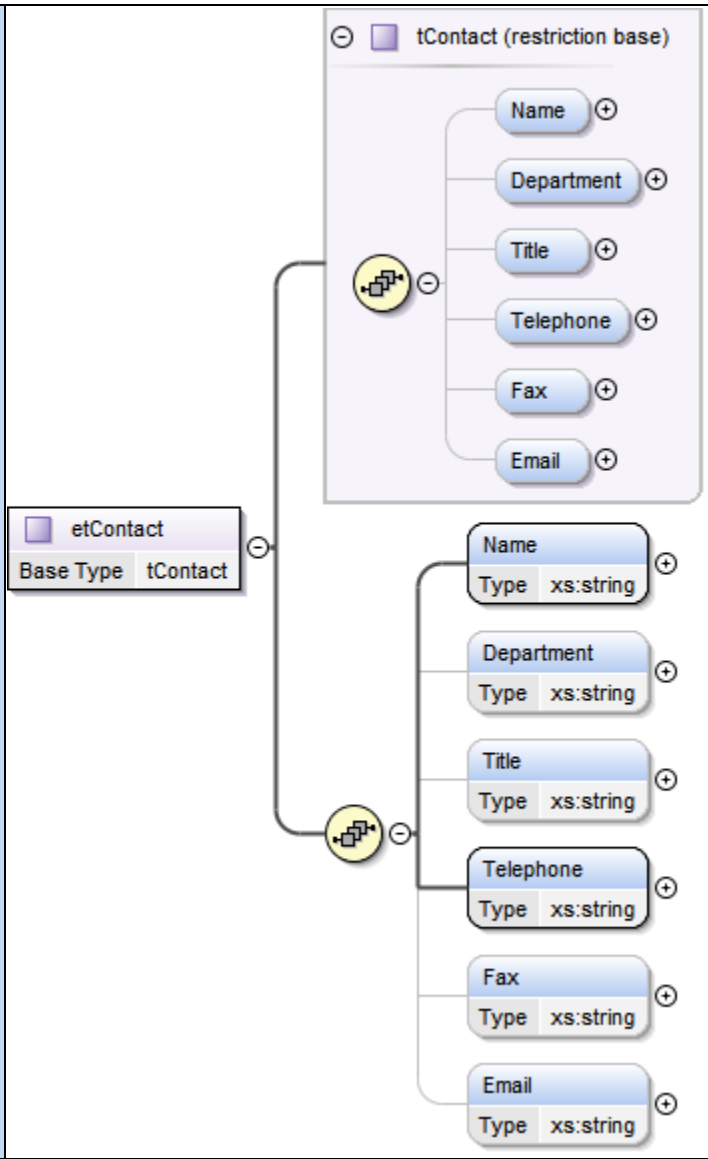
5.3 etSupplier

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="etContact" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="InventoryLocation" type="tAddress" minOccurs="0" maxOccurs="1"/>`
	`  </xs:sequence>`

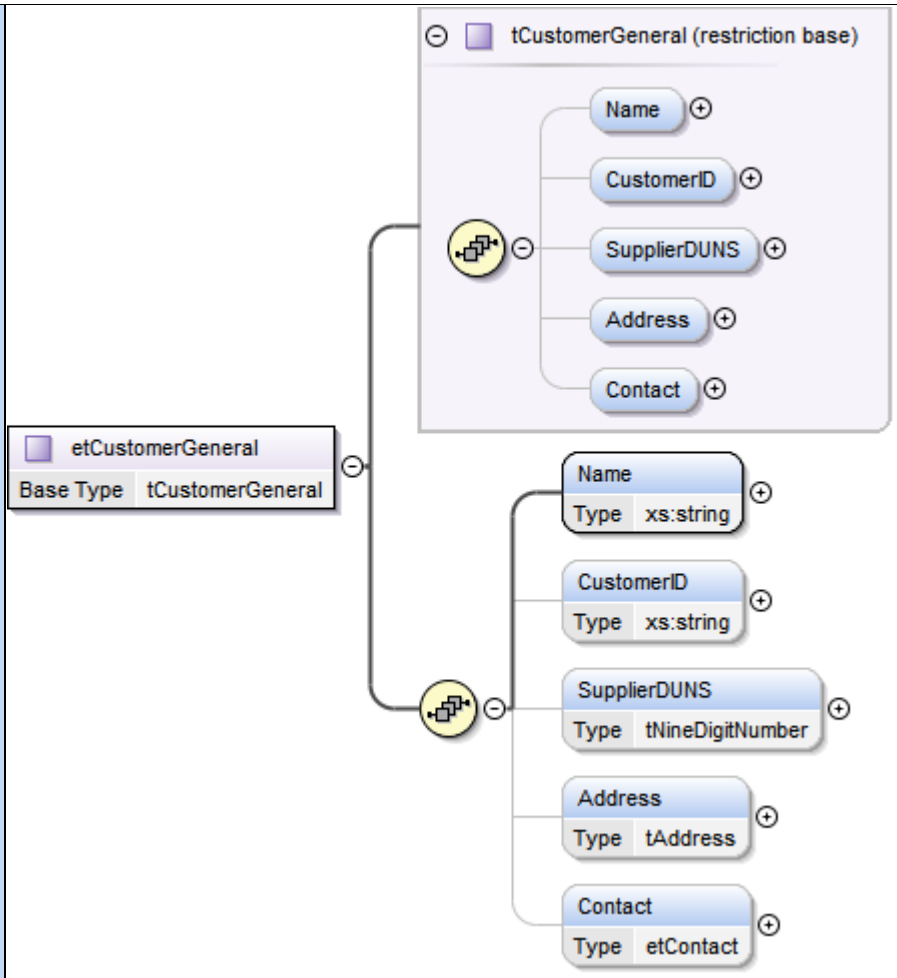
	</xs:restriction> </xs:complexContent> </xs:complexType>

5.4 etContact

Diagram	
Type	restriction of **tContact**
Type hierarchy	**tContact** **etContact**
Used by	Elements **etCustomerGeneral/Contact**, **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"/>

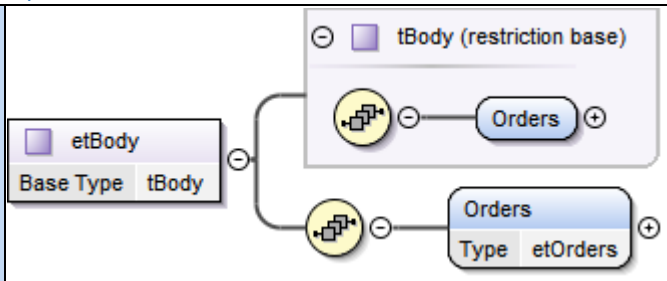
```
        <xs:element name="Department" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Title" type="xs:string" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="Telephone" type="xs:string" minOccurs="1"
maxOccurs="1"/>
        <xs:element name="Fax" type="xs:string"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

5.5 etCustomerGeneral

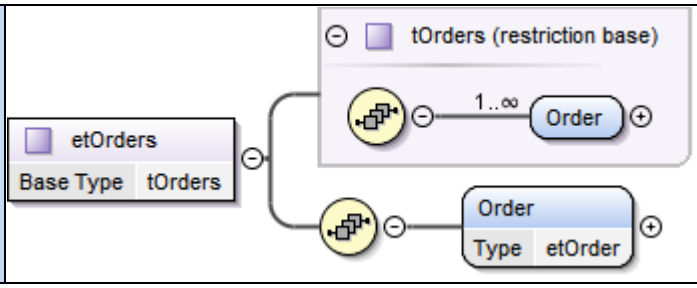
Diagram	
Type	restriction of **tCustomerGeneral**
Type hierarchy	**tCustomerGeneral** **etCustomerGeneral**
Used by	Elements **etHeader/BillTo**, **etHeader/ShipTo**
Model	**Name** , **CustomerID{0,1}** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}**

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

5.6 etBody

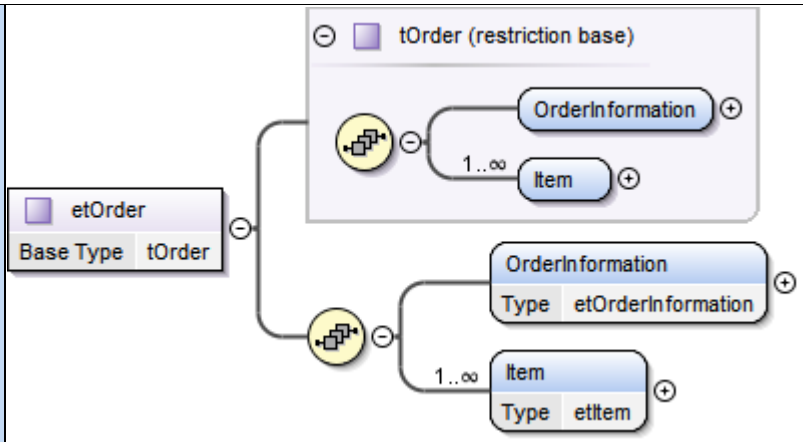
Diagram	
Type	restriction of **tBody**
Type hierarchy	**tBody** **etBody**
Used by	Element **tBL/Body**
Model	**Orders**
Source	<xs:complexType name="etBody"> <xs:complexContent> <xs:restriction base="tBody"> <xs:sequence> <xs:element maxOccurs="1" name="Orders" type="etOrders"/> </xs:sequence> </xs:restriction>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

5.7 etOrders

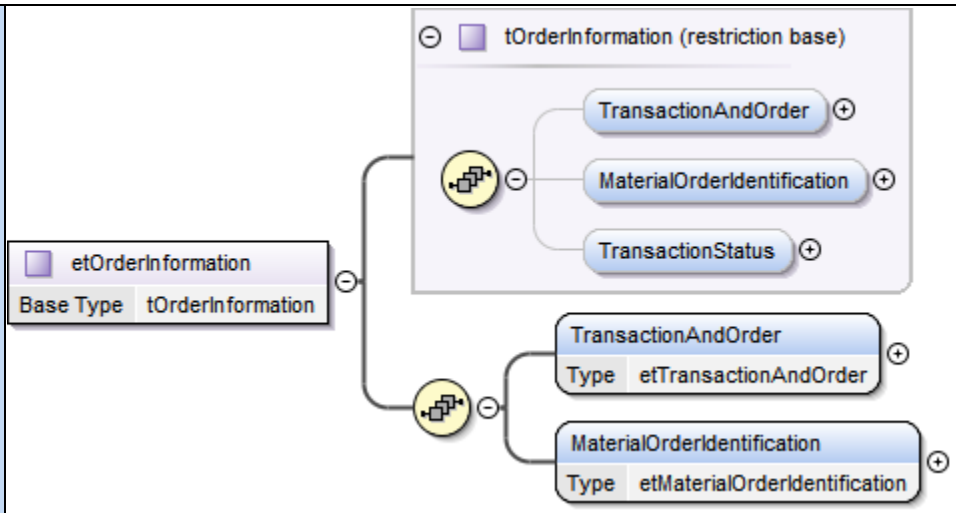
Diagram	

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>

5.8 etOrder

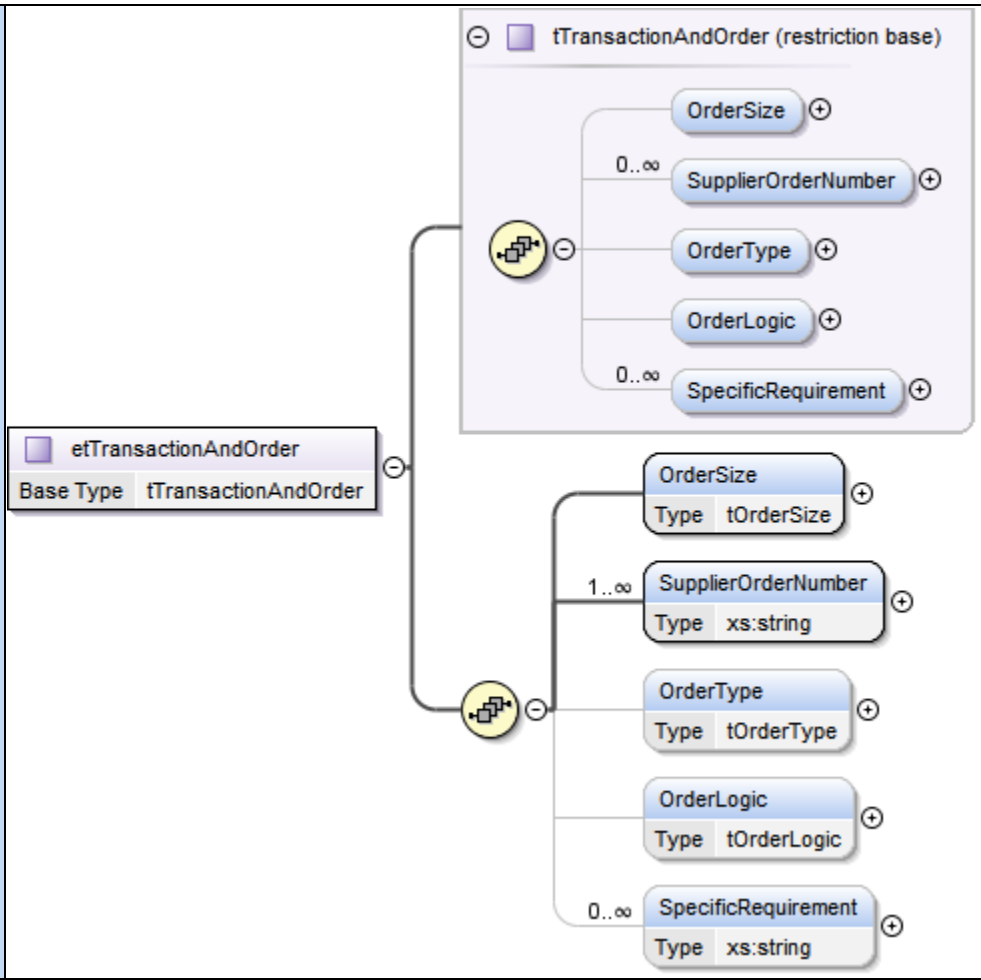
Diagram	
Type	restriction of **tOrder**
Type hierarchy	**tOrder** **etOrder**
Used by	Element **etOrders/Order**
Model	**OrderInformation , Item+**
Source	<xs:complexType name="etOrder"> <xs:complexContent> <xs:restriction base="tOrder"> <xs:sequence> <xs:element minOccurs="1" name="OrderInformation"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

5.9 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>`

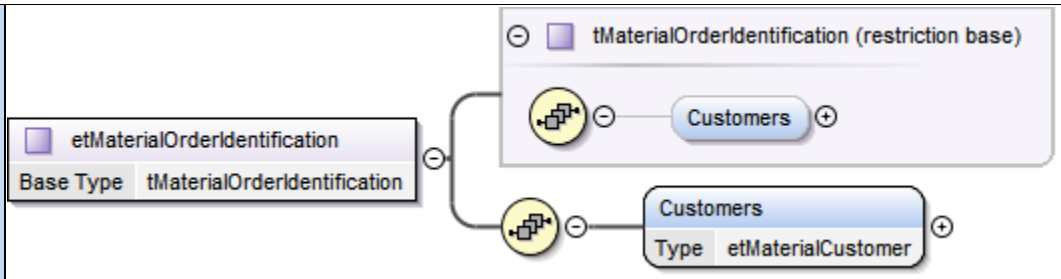
5.10 etTransactionAndOrder

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

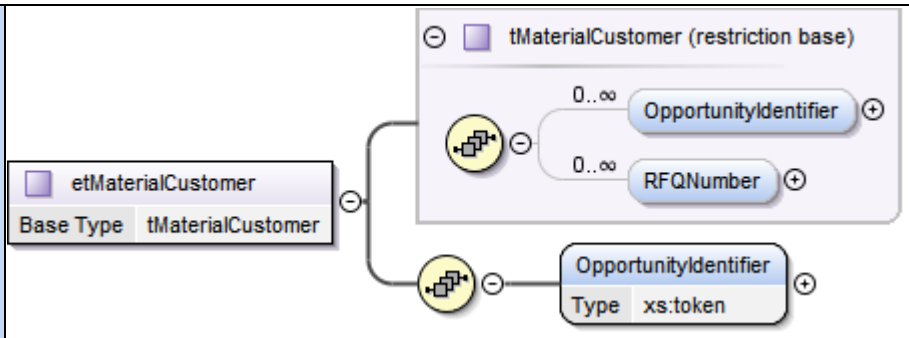
Source	`<xs:complexType name="etTransactionAndOrder">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tTransactionAndOrder">`
	`  <xs:sequence>`
	`  <xs:element name="OrderSize" type="tOrderSize" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="1" 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>

5.11 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>

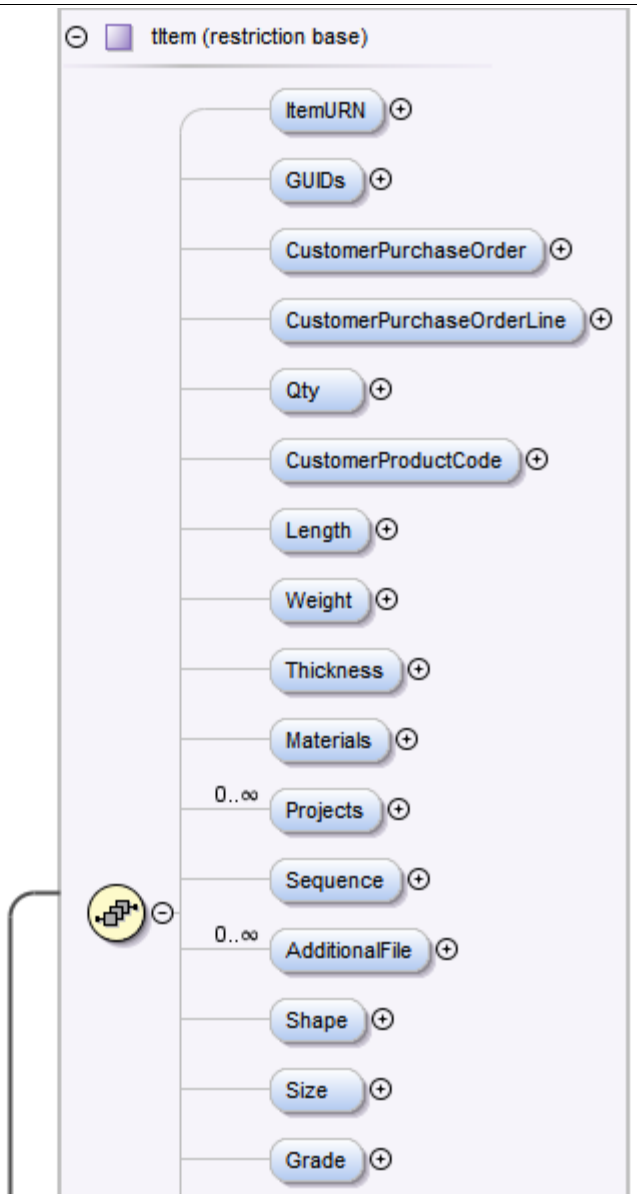
5.12 etMaterialCustomer

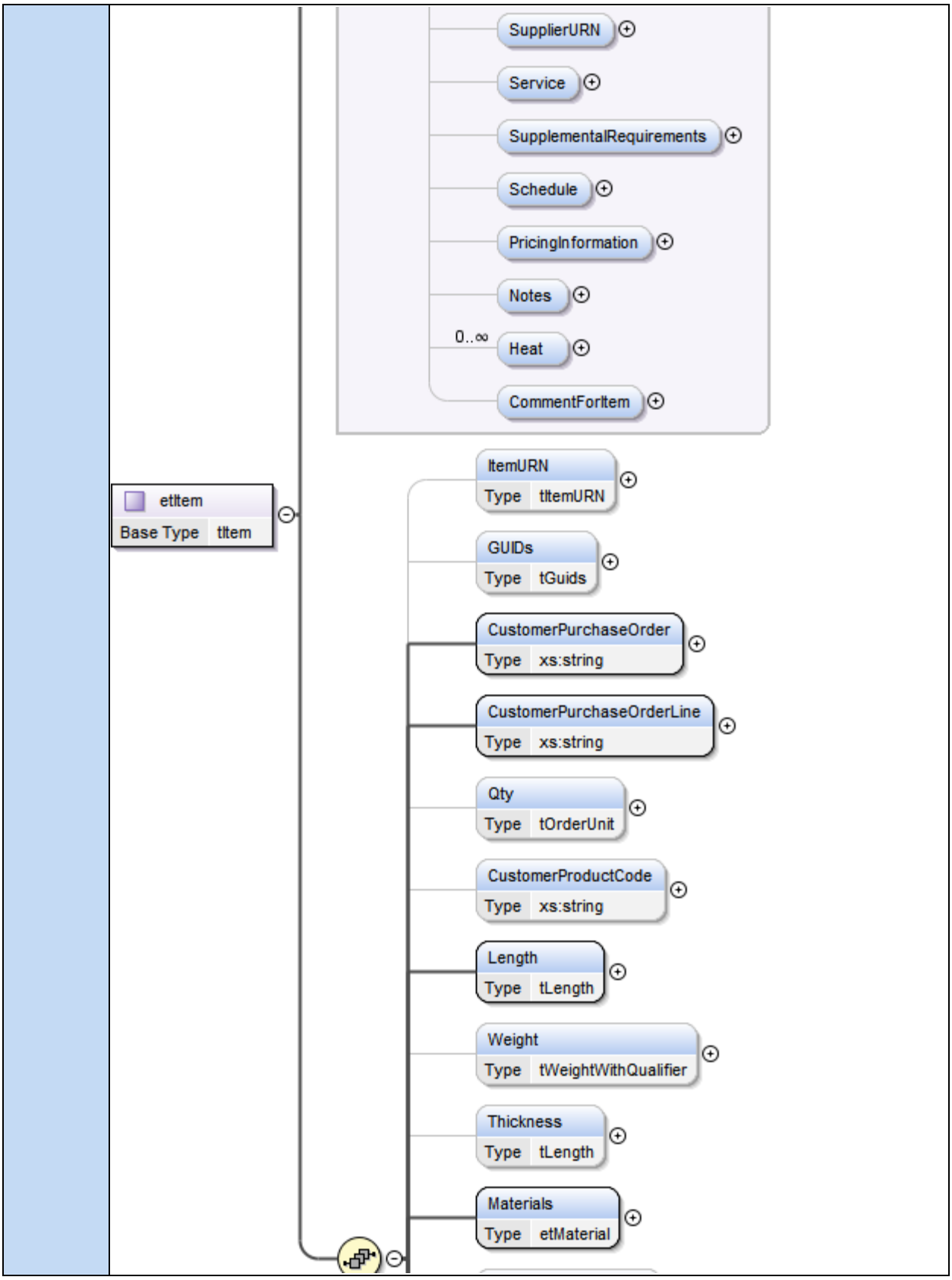
Diagram	
Type	restriction of **tMaterialCustomer**
Type hierarchy	**tMaterialCustomer** **etMaterialCustomer**
Used by	Element **etMaterialOrderIdentification/Customers**
Model	**OpportunityIdentifier**
Source	<xs:complexType name="etMaterialCustomer"> <xs:complexContent> <xs:restriction base="tMaterialCustomer">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

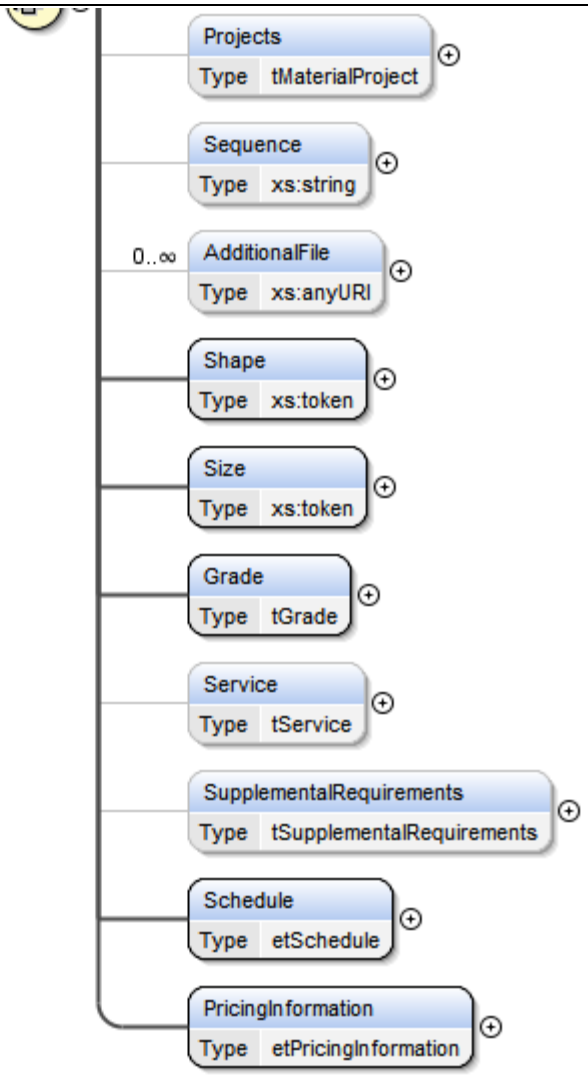
```
        <xs:element name="OpportunityIdentifier" type="xs:token"
minOccurs="1" maxOccurs="1"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

5.13 etItem

Diagram

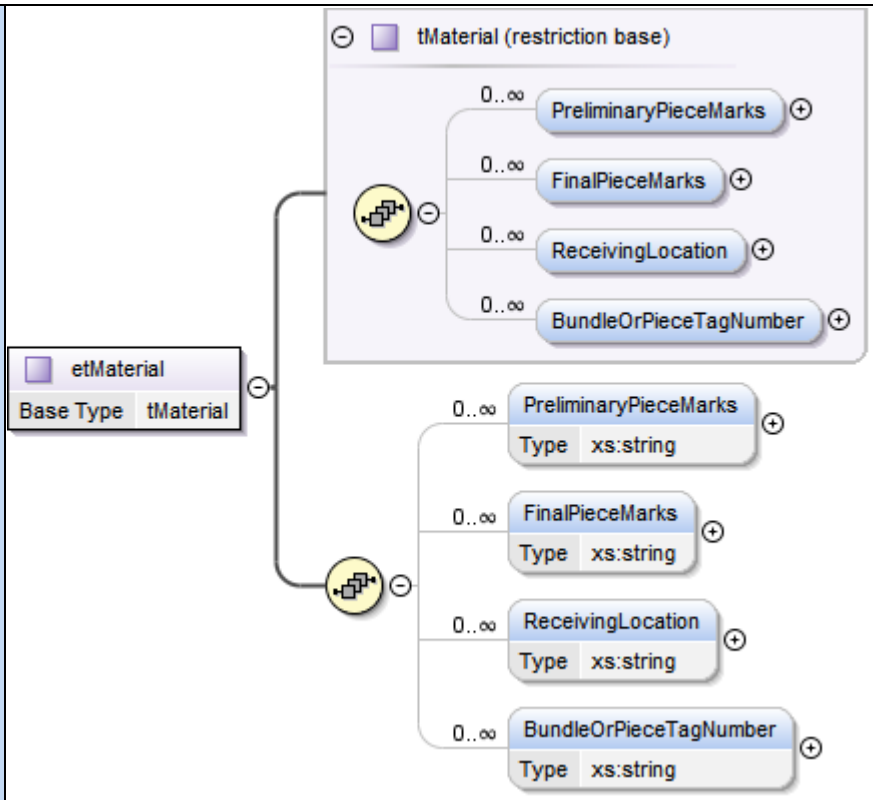



SupplierURN
Service
SupplementalRequirements
Schedule
PricingInformation
Notes
0..∞
Heat
CommentForItem
etItem
Base Type tItem
ItemURN
Type tItemURN
GUIDs
Type tGuids
CustomerPurchaseOrder
Type xs:string
CustomerPurchaseOrderLine
Type xs:string
Qty
Type tOrderUnit
CustomerProductCode
Type xs:string
Length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

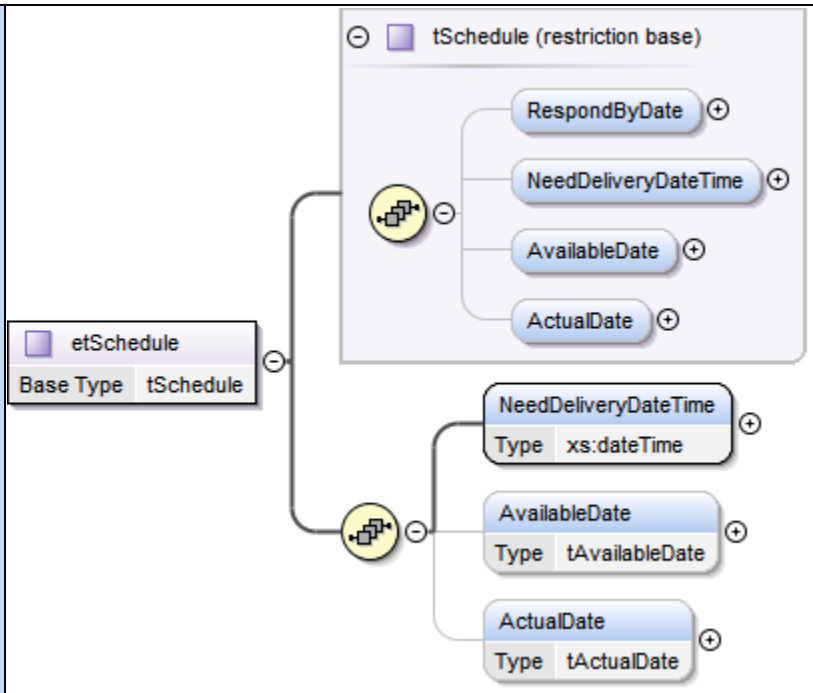
	
Type	restriction of **tItem**
Type hierarchy	**tItem** **etItem**
Used by	Element **etOrder/Item**
Model	**ItemURN{0,1}** , **GUIDs{0,1}** , **CustomerPurchaseOrder** , **CustomerPurchaseOrderLine** , **Qty{0,1}** , **CustomerProductCode{0,1}** , **Length** , **Weight{0,1}** , **Thickness{0,1}** , **Materials** , **Projects{0,1}** , **Sequence{0,1}** , **AdditionalFile*** , **Shape** , **Size** , **Grade** , **Service{0,1}** , **SupplementalRequirements{0,1}** , **Schedule** , **PricingInformation**
Source	<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"/> <xs:element minOccurs="1" name="CustomerPurchaseOrder" type="xs:string"/>

```
        <xs:element minOccurs="1" name="CustomerPurchaseOrderLine"
type="xs:string"/>
        <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 name="AdditionalFile" minOccurs="0"
maxOccurs="unbounded" 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:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

5.14 etMaterial

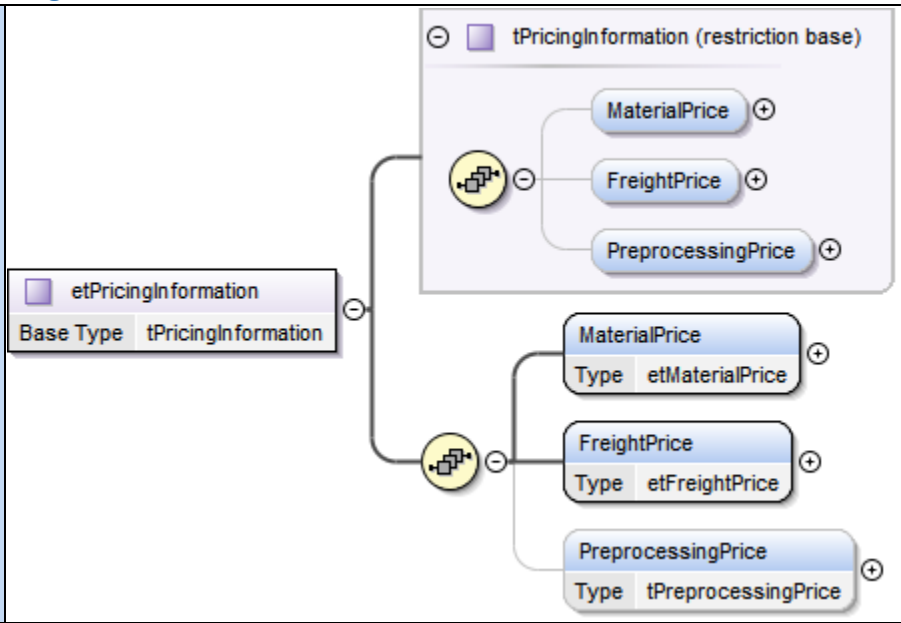
Diagram	
Type	restriction of **tMaterial**
Type hierarchy	**tMaterial** **etMaterial**
Used by	Element **etItem/Materials**
Model	**PreliminaryPieceMarks*** , **FinalPieceMarks*** , **ReceivingLocation*** , **BundleOrPieceTagNumber***
Source	 ``` <xs:complexType name="etMaterial"> <xs:complexContent> <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> ```

5.15 etSchedule

Diagram	
Type	restriction of **tSchedule**
Type hierarchy	**tSchedule** **etSchedule**
Used by	Element **etItem/Schedule**
Model	**NeedDeliveryDateTime** , **AvailableDate{0,1}** , **ActualDate{0,1}**

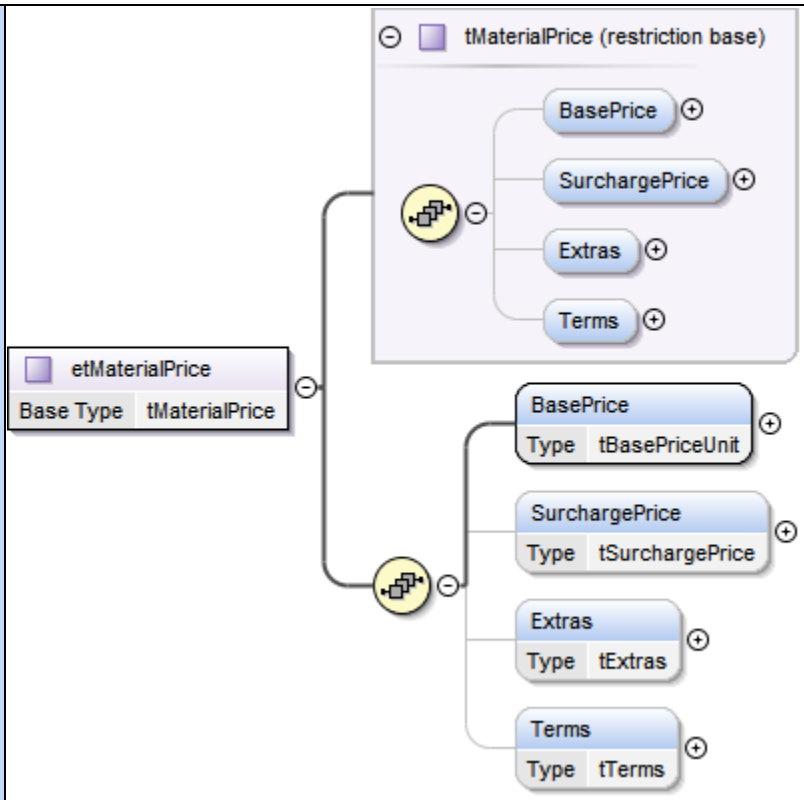
Source	`<xs:complexType name="etSchedule">`
	`  <xs:complexContent>`
	`  <xs:restriction base="tSchedule">`
	`  <xs:sequence>`
	`  <xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1"/>`
	`  <xs:element name="AvailableDate" type="tAvailableDate" minOccurs="0" maxOccurs="1"/>`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

5.16 etPricingInformation

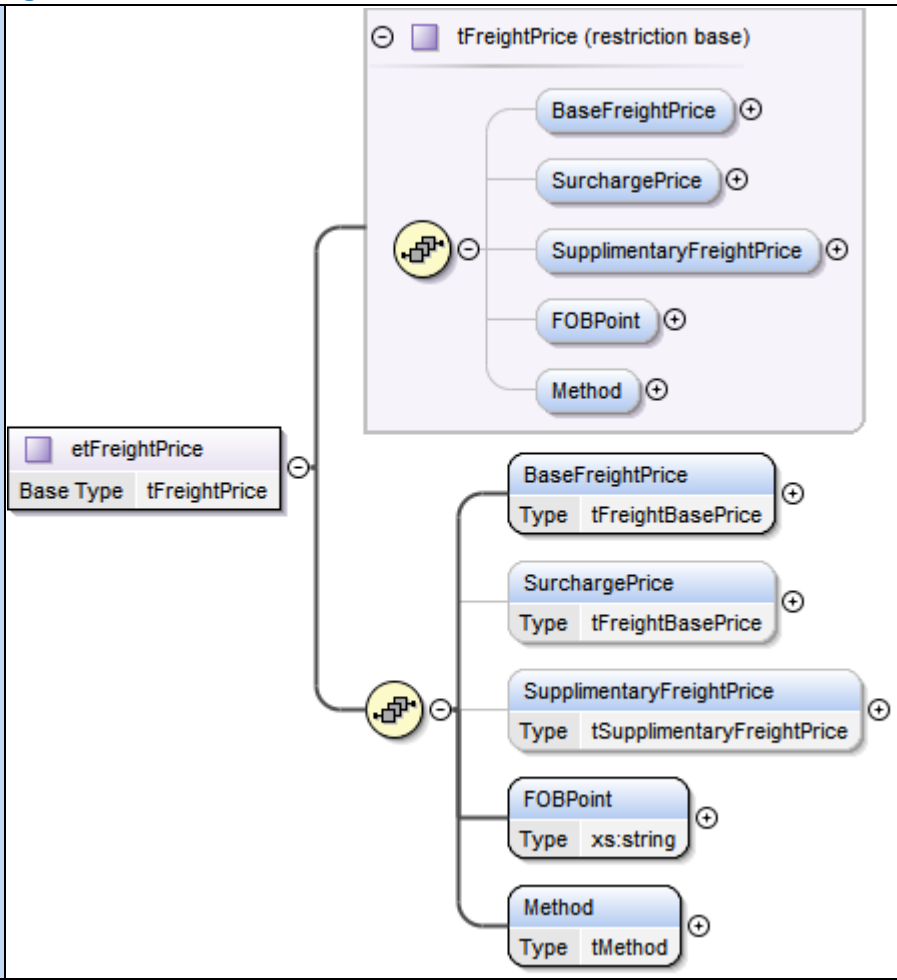
Diagram	
Type	restriction of **tPricingInformation**
Type hierarchy	**tPricingInformation** **etPricingInformation**
Used by	Element **etItem/PricingInformation**
Model	**MaterialPrice** , **FreightPrice** , **PreprocessingPrice{0,1}**

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>`

5.17 etMaterialPrice

Diagram	
Type	restriction of **tMaterialPrice**
Type hierarchy	**tMaterialPrice** **etMaterialPrice**
Used by	Element **etPricingInformation/MaterialPrice**
Model	**BasePrice** , **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="1" 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>

5.18 etFreightPrice

Diagram	
Type	restriction of **tFreightPrice**
Type hierarchy	**tFreightPrice** **etFreightPrice**
Used by	Element **etPricingInformation/FreightPrice**
Model	**BaseFreightPrice** , **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="1" 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>
```