

# 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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## 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	<p>The diagram shows a class <b>PurchaseOrderIssue</b> with type <b>tBL</b>. It is a base type for <b>tProcurement</b>. <b>tProcurement</b> (restriction base) contains two optional elements: <b>Header</b> (Type: <b>etHeader</b>) and <b>Body</b> (Type: <b>etBody</b>).</p>
Type	<b>tBL</b>
Type hierarchy	<b>tProcurement</b> <b>tBL</b>
Properties	content: <b>complex</b>
Model	<b>Header , Body</b>
Instance	<pre>&lt;PurchaseOrderIssue xmlns="AISCProcurement"&gt;   &lt;Header&gt;{1,1}&lt;/Header&gt;   &lt;Body&gt;{1,1}&lt;/Body&gt; &lt;/PurchaseOrderIssue&gt;</pre>
Source	<pre>&lt;xs:element name="PurchaseOrderIssue" type="tBL"/&gt;</pre>

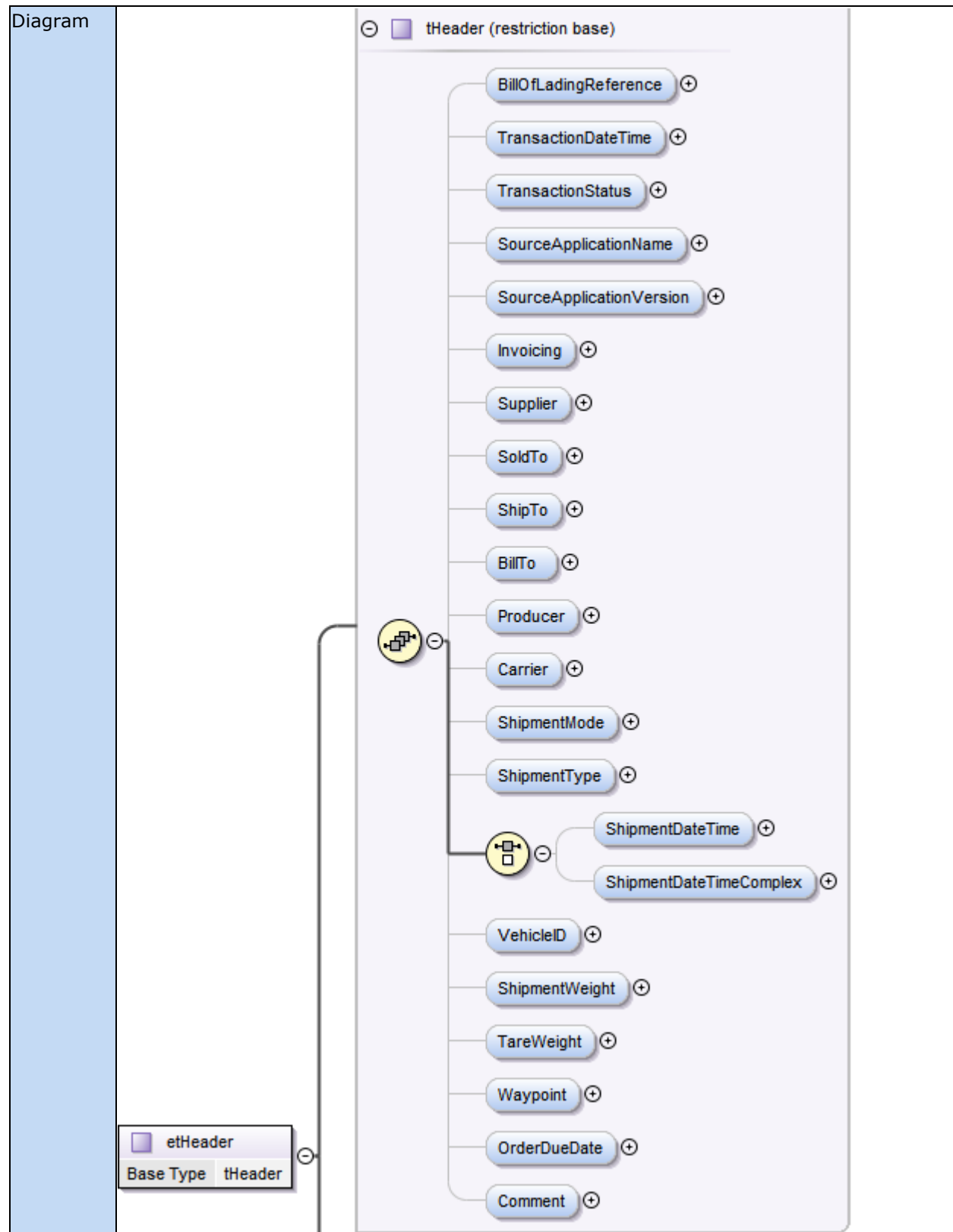
### 3 Complex Types in Purchase Order Issue Schema

#### 3.1 tBL

Diagram	
Type	restriction of <b>tProcurement</b>
Type hierarchy	<b>tProcurement</b> <b>tBL</b>
Used by	Element <b>PurchaseOrderIssue</b>
Model	<b>Header , Body</b>
Source	<pre> &lt;xs:complexType name="tBL"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tProcurement"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Header" type="etHeader" minOccurs="1"/&gt;         &lt;xs:element name="Body" type="etBody" minOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>



### 3.2 etHeader



Type	restriction of <b>tHeader</b>
Type hierarchy	<b>tHeader</b> <b>etHeader</b>
Used by	Element <b>tBL/Header</b>
Model	<b>TransactionDateTime</b> , <b>SourceApplicationName{0,1}</b> , <b>SourceApplicationVersion{0,1}</b> , <b>Supplier</b> , <b>SoldTo</b> , <b>ShipTo{0,1}</b> , <b>BillTo</b> , <b>Producer{0,1}</b> , <b>Carrier{0,1}</b> , <b>OrderDueDate{0,1}</b> , <b>Comment{0,1}</b>
Source	<pre> &lt;xs:complexType name="etHeader"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tHeader"&gt;       &lt;xs:sequence&gt;         &lt;xs:element minOccurs="1" name="TransactionDateTime" type="xs:dateTime"/&gt; </pre>

```

        <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 <b>tSupplier</b>
Type hierarchy	<b>tSupplier</b> <b>etSupplier</b>
Used by	Element <b>etHeader/Supplier</b>
Model	<b>Name , SupplierDUNS{0,1} , Address , Contact , InventoryLocation{0,1}</b>
Source	<pre> &lt;xs:complexType name="etSupplier"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tSupplier"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SupplierDUNS" type="tNineDigitNumber" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Address" type="etAddress" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="Contact" type="etContact" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="InventoryLocation" type="tAddress" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

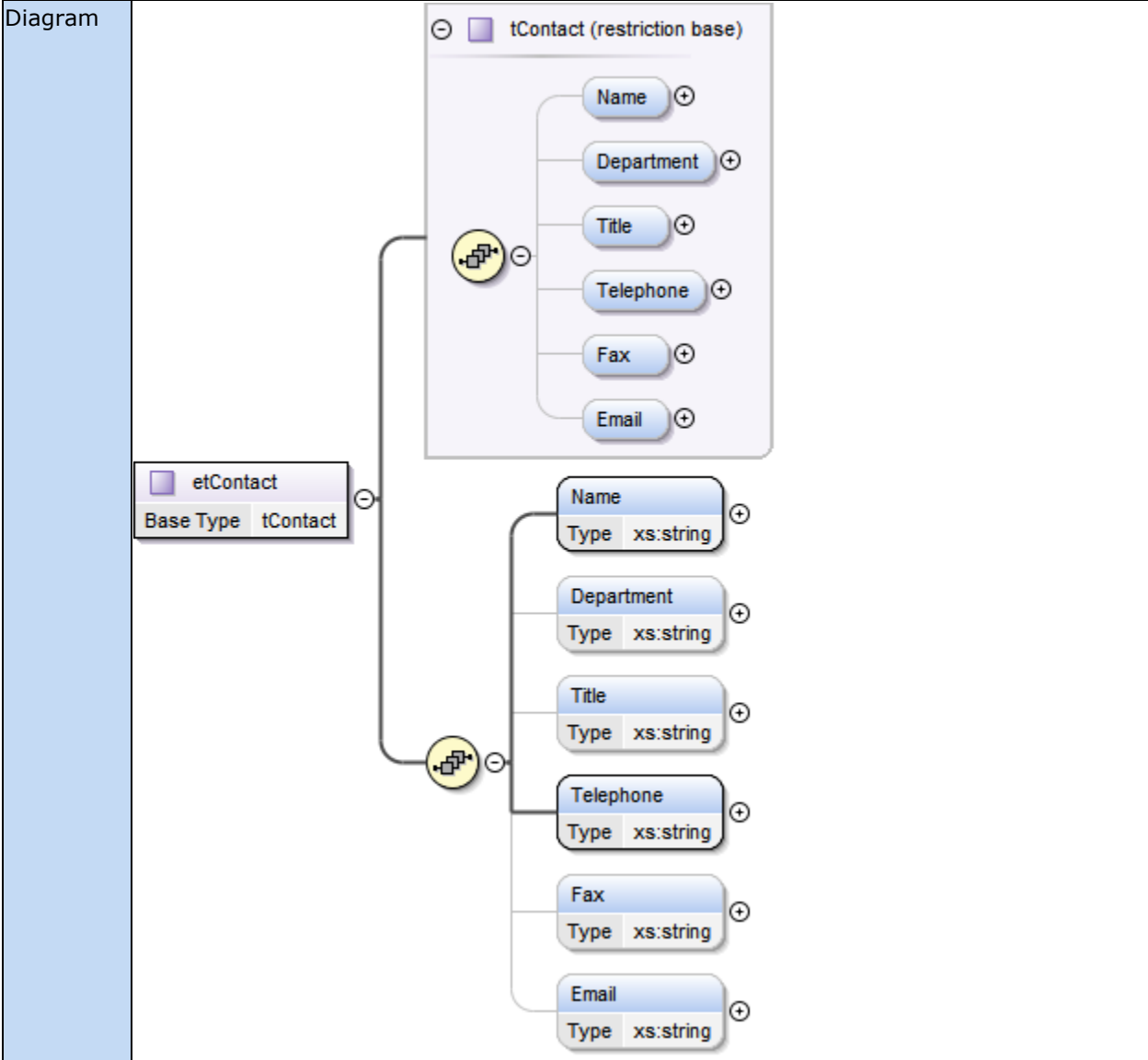
	<pre> &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
--	-----------------------------------------------------------------------------------------

### 3.4 etAddress

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

	<code>&lt;/xs:complexType&gt;</code>
--	--------------------------------------

### 3.5 etContact



Type	restriction of <b>tContact</b>
Type hierarchy	<b>tContact</b> <b>etContact</b>
Used by	Elements <b>etCustomerGeneral/Contact</b> , <b>etSupplier/Contact</b>
Model	<b>Name</b> , <b>Department{0,1}</b> , <b>Title{0,1}</b> , <b>Telephone</b> , <b>Fax{0,1}</b> , <b>Email{0,1}</b>
Source	<pre> &lt;xs:complexType name="etContact"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tContact"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="Department" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; </pre>

	<pre> &lt;xs:element name="Title" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;xs:element name="Telephone" type="xs:string" minOccurs="1" maxOccurs="1"/&gt; &lt;xs:element name="Fax" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;xs:element name="Email" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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3.6 etCustomerGeneral

Diagram	<p>The diagram illustrates the restriction of the <b>tCustomerGeneral</b> type to the <b>etCustomerGeneral</b> type. The <b>etCustomerGeneral</b> type is shown as a restriction of <b>tCustomerGeneral</b>. The elements of <b>etCustomerGeneral</b> are:</p> <ul style="list-style-type: none"> <li><b>Name</b> (Type: <b>xs:string</b>)</li> <li><b>CustomerID</b> (Type: <b>xs:string</b>)</li> <li><b>SupplierDUNS</b> (Type: <b>tNineDigitNumber</b>)</li> <li><b>Address</b> (Type: <b>tAddress</b>)</li> <li><b>Contact</b> (Type: <b>etContact</b>)</li> </ul>
Type	restriction of <b>tCustomerGeneral</b>
Type hierarchy	<b>tCustomerGeneral</b> <b>etCustomerGeneral</b>
Used by	Element <b>etHeader/BillTo</b>
Model	<b>Name , CustomerID{0,1} , SupplierDUNS{0,1} , Address{0,1} , Contact{0,1}</b>
Source	<pre> &lt;xs:complexType name="etCustomerGeneral"&gt;   &lt;xs:complexContent&gt; </pre>

	<pre> &lt;xs:restriction base="tCustomerGeneral"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;xs:element name="CustomerID" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element minOccurs="0" name="SupplierDUNS" type="tNineDigitNumber"/&gt;     &lt;xs:element name="Address" type="tAddress" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="Contact" type="etContact" minOccurs="0" maxOccurs="1"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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### 3.7 etBody

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

### 3.8 etOrders

Diagram	
Type	restriction of <b>tOrders</b>



Type hierarchy	<b>tOrders</b> <b>etOrders</b>
Used by	Element <b>etBody/Orders</b>
Model	<b>Order</b>
Source	<pre> &lt;xs:complexType name="etOrders"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tOrders"&gt;       &lt;xs:sequence&gt;         &lt;xs:element maxOccurs="1" name="Order" type="etOrder"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 3.9 etOrder

Diagram	<p>The diagram illustrates the relationship between the <b>etOrder</b> type and its base type <b>tOrder</b>. <b>etOrder</b> is shown as a restriction of <b>tOrder</b>. The diagram features two main components: a box for <b>etOrder</b> (Base Type: <b>tOrder</b>) and a box for <b>tOrder (restriction base)</b>. The <b>etOrder</b> box is connected to the <b>tOrder</b> box via a restriction relationship (indicated by a circle with a minus sign). The <b>tOrder</b> box contains a sequence of elements: <b>OrderInformation</b> (1..∞) and <b>Item</b> (1..∞). The <b>etOrder</b> box also contains a sequence of elements: <b>OrderInformation</b> (1..∞) and <b>Item</b> (1..∞). The <b>etOrder</b> box is further detailed with <b>Type etOrderInformation</b> for <b>OrderInformation</b> and <b>Type etItem</b> for <b>Item</b>.</p>
Type	restriction of <b>tOrder</b>
Type hierarchy	<b>tOrder</b> <b>etOrder</b>
Used by	Element <b>etOrders/Order</b>
Model	<b>OrderInformation , Item+</b>
Source	<pre> &lt;xs:complexType name="etOrder"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tOrder"&gt;       &lt;xs:sequence&gt;         &lt;xs:element minOccurs="1" name="OrderInformation" type="etOrderInformation"/&gt;         &lt;xs:element maxOccurs="unbounded" name="Item" type="etItem"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 3.10 etOrderInformation

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

### 3.11 etTransactionAndOrder

Diagram	<p>The diagram illustrates the restriction of the <b>tTransactionAndOrder</b> type to the <b>etTransactionAndOrder</b> type. The <b>etTransactionAndOrder</b> type is shown as a restriction of <b>tTransactionAndOrder</b>. The restriction is defined by a sequence of elements: <b>OrderSize</b> (Type <b>tOrderSize</b>), <b>SupplierOrderNumber</b> (Type <b>xs:string</b>), <b>OrderType</b> (Type <b>tOrderType</b>), <b>OrderLogic</b> (Type <b>tOrderLogic</b>), and <b>SpecificRequirement</b> (Type <b>xs:string</b>). The elements are connected by a sequence line with a restriction base icon.</p>
Type	restriction of <b>tTransactionAndOrder</b>
Type hierarchy	<b>tTransactionAndOrder</b> <b>etTransactionAndOrder</b>
Used by	Element <b>etOrderInformation/TransactionAndOrder</b>
Model	<b>OrderSize</b> , <b>SupplierOrderNumber*</b> , <b>OrderType{0,1}</b> , <b>OrderLogic{0,1}</b> , <b>SpecificRequirement*</b>
Source	<pre> &lt;xs:complexType name="etTransactionAndOrder"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tTransactionAndOrder"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="OrderSize" type="tOrderSize" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="0" maxOccurs="unbounded"/&gt;         &lt;xs:element name="OrderType" type="tOrderType" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="OrderLogic" type="tOrderLogic" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="SpecificRequirement" type="xs:string" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

	<pre> &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
--	--------------------------------------------------------------------------------------------------------------

### 3.12 etMaterialOrderIdentification

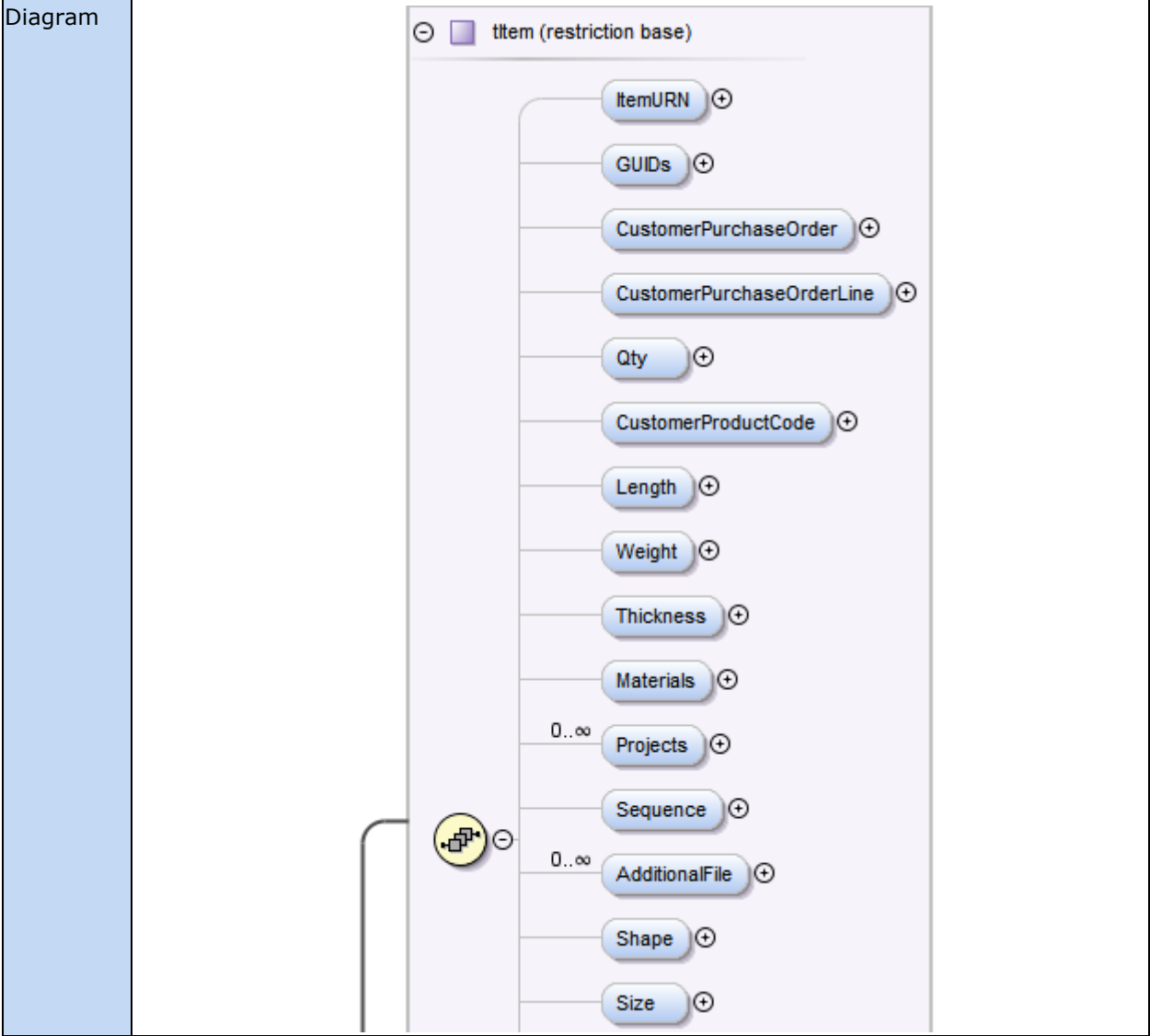
Diagram	
Type	restriction of <b>tMaterialOrderIdentification</b>
Type hierarchy	<b>tMaterialOrderIdentification</b> <b>etMaterialOrderIdentification</b>
Used by	Element <b>etOrderInformation/MaterialOrderIdentification</b>
Model	<b>Customers</b>
Source	<pre> &lt;xs:complexType name="etMaterialOrderIdentification"&gt;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

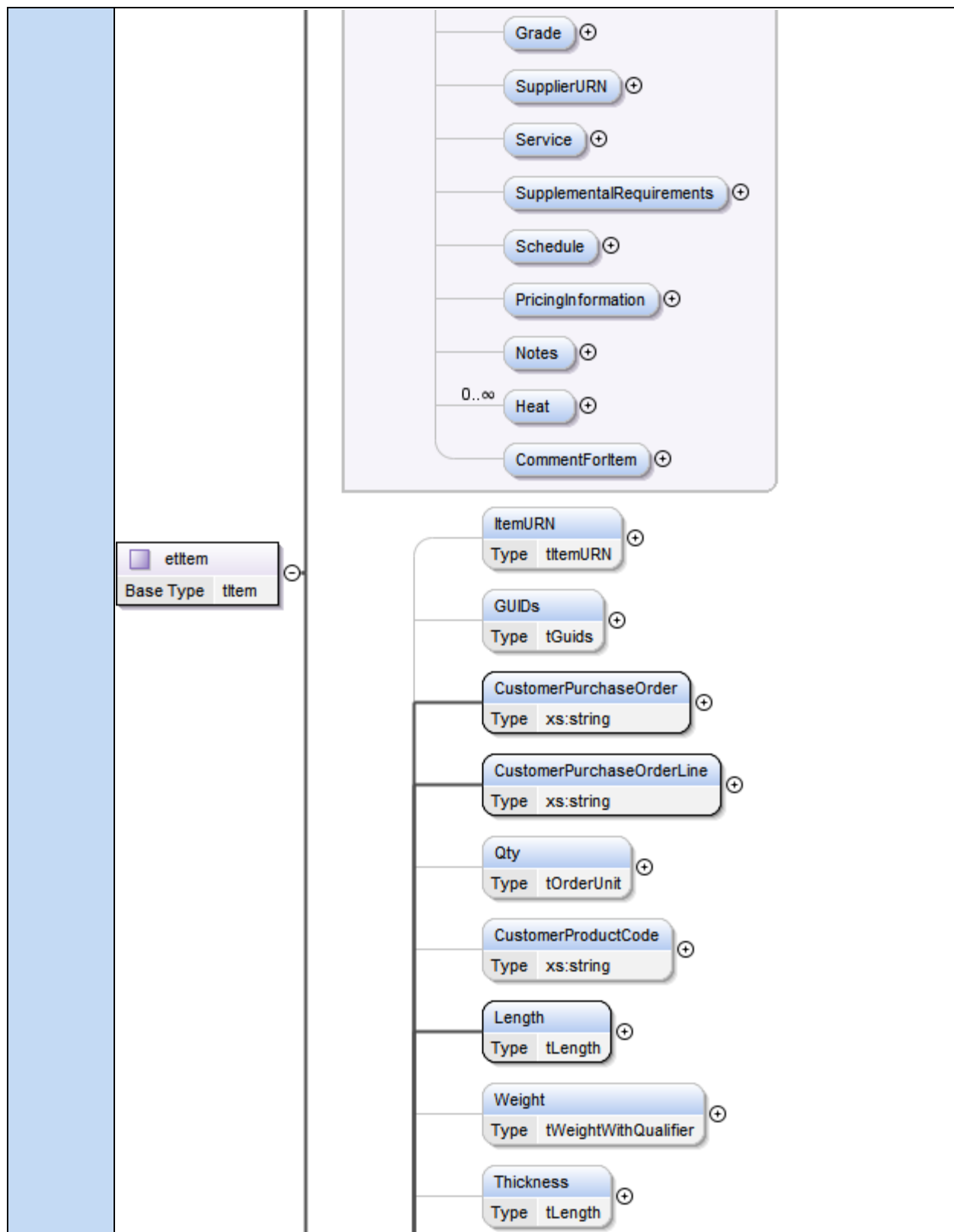
### 3.13 etMaterialCustomer

Diagram	
Type	restriction of <b>tMaterialCustomer</b>
Type hierarchy	<b>tMaterialCustomer</b> <b>etMaterialCustomer</b>
Used by	Element <b>etMaterialOrderIdentification/Customers</b>
Model	<b>OpportunityIdentifier</b>
Source	<pre> &lt;xs:complexType name="etMaterialCustomer"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tMaterialCustomer"&gt;       &lt;xs:sequence&gt; </pre>

	<pre> &lt;xs:element name="OpportunityIdentifier" type="xs:token" minOccurs="1" maxOccurs="1"/&gt; &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
--	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 3.14 etItem





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

```

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

### 3.16 etSchedule

Diagram	
Type	restriction of <b>tSchedule</b>
Type hierarchy	<b>tSchedule</b> <b>etSchedule</b>
Used by	Element <b>etItem/Schedule</b>
Model	<b>NeedDeliveryDateTime , AvailableDate{0,1} , ActualDate{0,1}</b>
Source	<pre> &lt;xs:complexType name="etSchedule"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tSchedule"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="AvailableDate" type="tAvailableDate" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="ActualDate" type="tActualDate" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 3.17 etPricingInformation

Diagram	
Type	restriction of <b>tPricingInformation</b>
Type hierarchy	<b>tPricingInformation</b> <b>etPricingInformation</b>
Used by	Element <b>etItem/PricingInformation</b>
Model	<b>MaterialPrice , FreightPrice , PreprocessingPrice{0,1}</b>
Source	<pre> &lt;xs:complexType name="etPricingInformation"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tPricingInformation"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="MaterialPrice" type="etMaterialPrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="FreightPrice" type="etFreightPrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="PreprocessingPrice" type="tPreprocessingPrice" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 3.18 etMaterialPrice

Diagram	<p>The diagram illustrates the restriction of the <b>tMaterialPrice</b> type to the <b>etMaterialPrice</b> type. The <b>etMaterialPrice</b> type is shown as a restriction of <b>tMaterialPrice</b>. The <b>tMaterialPrice</b> type is defined by a sequence of four elements: <b>BasePrice</b>, <b>SurchargePrice</b>, <b>Extras</b>, and <b>Terms</b>. The <b>etMaterialPrice</b> type is a restriction of <b>tMaterialPrice</b> that enforces the following constraints on these elements:</p> <ul style="list-style-type: none"> <li><b>BasePrice</b>: Type <b>tBasePriceUnit</b>, minOccurs="1", maxOccurs="1".</li> <li><b>SurchargePrice</b>: Type <b>tSurchargePrice</b>, minOccurs="0", maxOccurs="1".</li> <li><b>Extras</b>: Type <b>tExtras</b>, minOccurs="0", maxOccurs="1".</li> <li><b>Terms</b>: Type <b>tTerms</b>, minOccurs="0", maxOccurs="1".</li> </ul>
Type	restriction of <b>tMaterialPrice</b>
Type hierarchy	<b>tMaterialPrice</b> <b>etMaterialPrice</b>
Used by	Element <b>etPricingInformation/MaterialPrice</b>
Model	<b>BasePrice</b> , <b>SurchargePrice{0,1}</b> , <b>Extras{0,1}</b> , <b>Terms{0,1}</b>
Source	<pre> &lt;xs:complexType name="etMaterialPrice"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tMaterialPrice"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="BasePrice" type="tBasePriceUnit" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SurchargePrice" type="tSurchargePrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Extras" type="tExtras" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Terms" type="tTerms" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 3.19 etFreightPrice

Diagram	<p>The diagram illustrates the XSD structure for <b>etFreightPrice</b>. It is a restriction of the base type <b>tFreightPrice</b>. The structure consists of a sequence of five elements:</p> <ul style="list-style-type: none"> <li><b>BaseFreightPrice</b>: Type <b>tFreightBasePrice</b>, minOccurs="1", maxOccurs="1".</li> <li><b>SurchargePrice</b>: Type <b>tFreightBasePrice</b>, minOccurs="0", maxOccurs="1".</li> <li><b>SupplementaryFreightPrice</b>: Type <b>tSupplementaryFreightPrice</b>, minOccurs="0", maxOccurs="1".</li> <li><b>FOBPoint</b>: Type <b>xs:string</b>, minOccurs="1", maxOccurs="1".</li> <li><b>Method</b>: Type <b>tMethod</b>, minOccurs="1", maxOccurs="1".</li> </ul> <p>The diagram also shows the base type <b>tFreightPrice</b> (restriction base) and the derived type <b>etFreightPrice</b> (Base Type <b>tFreightPrice</b>).</p>
Type	restriction of <b>tFreightPrice</b>
Type hierarchy	<b>tFreightPrice</b> <b>etFreightPrice</b>
Used by	Element <b>etPricingInformation/FreightPrice</b>
Model	<b>BaseFreightPrice</b> , <b>SurchargePrice{0,1}</b> , <b>SupplementaryFreightPrice{0,1}</b> , <b>FOBPoint</b> , <b>Method</b>
Source	<pre> &lt;xs:complexType name="etFreightPrice"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tFreightPrice"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="BaseFreightPrice" type="tFreightBasePrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SurchargePrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="SupplementaryFreightPrice" type="tSupplementaryFreightPrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="FOBPoint" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="Method" type="tMethod" minOccurs="1" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

	<pre>&lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>
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## 4 Element in Purchase Order Confirm Schema

### 4.1 PurchaseOrderConfirm

Diagram	
Type	<b>tBL</b>
Type hierarchy	<b>tProcurement</b> <b>tBL</b>
Properties	content: <b>complex</b>
Model	<b>Header , Body</b>
Instance	<pre>&lt;PurchaseOrderConfirm xmlns="AISCPurchaseOrderConfirm"&gt;   &lt;Header&gt;{1,1}&lt;/Header&gt;   &lt;Body&gt;{1,1}&lt;/Body&gt; &lt;/PurchaseOrderConfirm&gt;</pre>
Source	<code>&lt;xs:element name="PurchaseOrderConfirm" type="tBL"/&gt;</code>

## 5 Complex Types in Purchase Order Confirm Schema

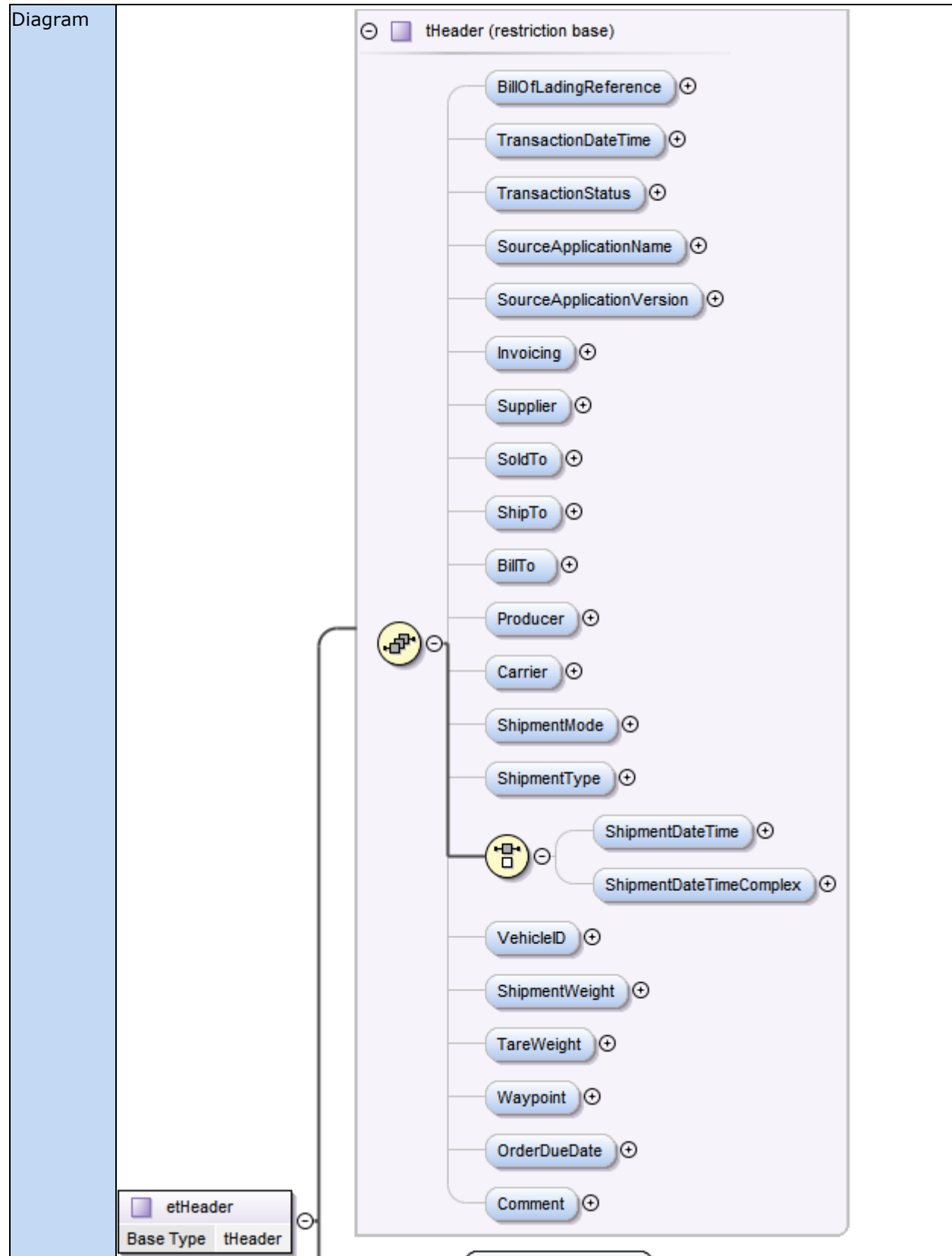
### 5.1 tBL

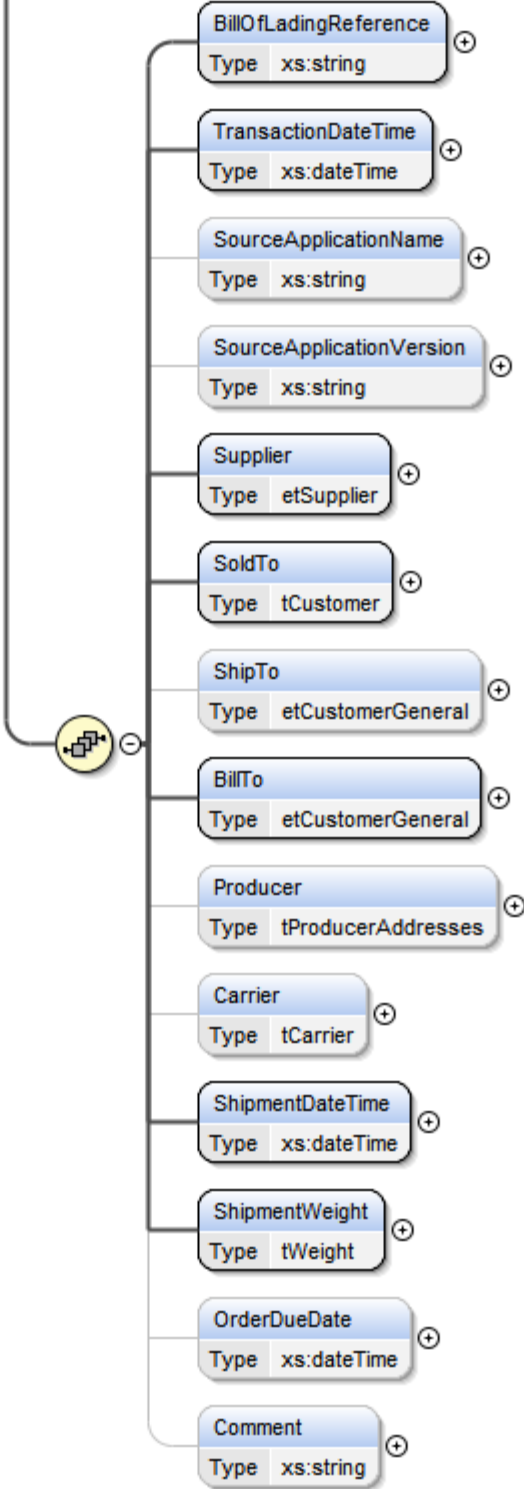
Diagram	
Type	restriction of <b>tProcurement</b>

Type hierarchy	<b>tProcurement</b> <b>tBL</b>
Used by	Element <b>PurchaseOrderConfirm</b>
Model	<b>Header , Body</b>
Source	<pre> &lt;xs:complexType name="tBL"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tProcurement"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Header" type="etHeader" minOccurs="1"/&gt;         &lt;xs:element name="Body" type="etBody" minOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>



## 5.2 etHeader



	
Type	restriction of <b>tHeader</b>
Type hierarchy	<b>tHeader</b> <b>etHeader</b>
Used by	Element <b>tBL/Header</b>

Model	<b>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}</b>
Source	<pre> &lt;xs:complexType name="etHeader"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tHeader"&gt;       &lt;xs:sequence&gt;         &lt;xs:element minOccurs="1" name="BillOfLadingReference" type="xs:string"/&gt;         &lt;xs:element minOccurs="1" name="TransactionDateTime" type="xs:dateTime"/&gt;         &lt;xs:element name="SourceApplicationName" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="SourceApplicationVersion" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Supplier" type="etSupplier" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SoldTo" type="tCustomer" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="ShipTo" type="etCustomerGeneral" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="BillTo" type="etCustomerGeneral" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="Producer" type="tProducerAddresses" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Carrier" type="tCarrier" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element minOccurs="1" name="ShipmentDateTime" type="xs:dateTime"/&gt;         &lt;xs:element minOccurs="1" name="ShipmentWeight" type="tWeight"/&gt;         &lt;xs:element minOccurs="0" name="OrderDueDate" type="xs:dateTime"/&gt;         &lt;xs:element name="Comment" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

### 5.3 etSupplier

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

	<pre> &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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#### 5.4 etContact

Diagram	<p>The diagram illustrates the relationship between two XML Schema types. At the top, a box labeled <b>tContact (restriction base)</b> contains a sequence of six elements: <b>Name</b>, <b>Department</b>, <b>Title</b>, <b>Telephone</b>, <b>Fax</b>, and <b>Email</b>. Each element has a '+' icon indicating it is required. Below this, a box labeled <b>etContact</b> is shown with a 'Base Type' of <b>tContact</b>. A line with a restriction symbol (a circle with a cross) connects <b>etContact</b> to <b>tContact</b>. From <b>etContact</b>, another line with a restriction symbol connects to a detailed view of its elements. This view shows the same six elements as <b>tContact</b>, but each is now a complex type with a 'Type' attribute set to 'xs:string'. Each element in this view also has a '+' icon.</p>
Type	restriction of <b>tContact</b>
Type hierarchy	<b>tContact</b> <b>etContact</b>
Used by	Elements <b>etCustomerGeneral/Contact</b> , <b>etSupplier/Contact</b>
Model	<b>Name</b> , <b>Department{0,1}</b> , <b>Title{0,1}</b> , <b>Telephone</b> , <b>Fax{0,1}</b> , <b>Email{0,1}</b>
Source	<pre> &lt;xs:complexType name="etContact"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tContact"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/&gt; </pre>

	<pre> &lt;xs:element name="Department" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;xs:element name="Title" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;xs:element name="Telephone" type="xs:string" minOccurs="1" maxOccurs="1"/&gt; &lt;xs:element name="Fax" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;xs:element name="Email" type="xs:string" minOccurs="0" maxOccurs="1"/&gt; &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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5.5 etCustomerGeneral

Diagram	<pre> classDiagram     class tCustomerGeneral["tCustomerGeneral (restriction base)"] {         Name         CustomerID         SupplierDUNS         Address         Contact     }     class etCustomerGeneral["etCustomerGeneral"] {         Name         CustomerID         SupplierDUNS         Address         Contact     }     etCustomerGeneral -- &gt; tCustomerGeneral     etCustomerGeneral --&gt; tCustomerGeneral : restriction     etCustomerGeneral --&gt; tNineDigitNumber : SupplierDUNS     etCustomerGeneral --&gt; etContact : Contact </pre>
Type	restriction of <b>tCustomerGeneral</b>
Type hierarchy	<b>tCustomerGeneral</b> <b>etCustomerGeneral</b>
Used by	Elements <b>etHeader/BillTo</b> , <b>etHeader/ShipTo</b>
Model	<b>Name</b> , <b>CustomerID{0,1}</b> , <b>SupplierDUNS{0,1}</b> , <b>Address{0,1}</b> , <b>Contact{0,1}</b>

Source	<pre> &lt;xs:complexType name="etCustomerGeneral"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tCustomerGeneral"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="Name" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="CustomerID" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element minOccurs="0" name="SupplierDUNS" type="tNineDigitNumber"/&gt;         &lt;xs:element name="Address" type="tAddress" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Contact" type="etContact" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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## 5.6 etBody

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

## 5.7 etOrders

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

## 5.8 etOrder

Diagram	<p>The diagram illustrates the relationship between the <b>etOrder</b> type and its base type <b>tOrder</b>. The <b>etOrder</b> type is a restriction of <b>tOrder</b>. The <b>tOrder</b> type is a sequence of <b>OrderInformation</b> (1..∞) and <b>Item</b> (1..∞). The <b>etOrder</b> type is a sequence of <b>OrderInformation</b> (Type: <b>etOrderInformation</b>) and <b>Item</b> (Type: <b>etItem</b>).</p>
Type	restriction of <b>tOrder</b>
Type hierarchy	<b>tOrder</b> <b>etOrder</b>
Used by	Element <b>etOrders/Order</b>
Model	<b>OrderInformation , Item+</b>
Source	<pre> &lt;xs:complexType name="etOrder"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tOrder"&gt;       &lt;xs:sequence&gt;         &lt;xs:element minOccurs="1" name="OrderInformation" type="etOrderInformation"/&gt;         &lt;xs:element maxOccurs="unbounded" name="Item" type="etItem"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>



## 5.9 etOrderInformation

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

## 5.10 etTransactionAndOrder

Diagram	<p>The diagram illustrates the XSD structure for <b>etTransactionAndOrder</b>. It is a restriction of the base type <b>tTransactionAndOrder</b>. The base type contains the following elements:</p> <ul style="list-style-type: none"> <li><b>OrderSize</b> (0..∞ occurrences, type <b>tOrderSize</b>)</li> <li><b>SupplierOrderNumber</b> (0..∞ occurrences, type <b>xs:string</b>)</li> <li><b>OrderType</b> (0..∞ occurrences, type <b>tOrderType</b>)</li> <li><b>OrderLogic</b> (0..∞ occurrences, type <b>tOrderLogic</b>)</li> <li><b>SpecificRequirement</b> (0..∞ occurrences, type <b>xs:string</b>)</li> </ul> <p>The <b>etTransactionAndOrder</b> type is a restriction of <b>tTransactionAndOrder</b> with the following elements:</p> <ul style="list-style-type: none"> <li><b>OrderSize</b> (1..∞ occurrences, type <b>tOrderSize</b>)</li> <li><b>SupplierOrderNumber</b> (1..∞ occurrences, type <b>xs:string</b>)</li> <li><b>OrderType</b> (0..1 occurrences, type <b>tOrderType</b>)</li> <li><b>OrderLogic</b> (0..1 occurrences, type <b>tOrderLogic</b>)</li> <li><b>SpecificRequirement</b> (0..∞ occurrences, type <b>xs:string</b>)</li> </ul>
Type	restriction of <b>tTransactionAndOrder</b>
Type hierarchy	<b>tTransactionAndOrder</b> <b>etTransactionAndOrder</b>
Used by	Element <b>etOrderInformation/TransactionAndOrder</b>
Model	<b>OrderSize</b> , <b>SupplierOrderNumber</b> + , <b>OrderType</b> {0,1} , <b>OrderLogic</b> {0,1} , <b>SpecificRequirement</b> *
Source	<pre> &lt;xs:complexType name="etTransactionAndOrder"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tTransactionAndOrder"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="OrderSize" type="tOrderSize" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="1" maxOccurs="unbounded"/&gt;         &lt;xs:element name="OrderType" type="tOrderType" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="OrderLogic" type="tOrderLogic" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="SpecificRequirement" type="xs:string" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

	<pre> &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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## 5.11 etMaterialOrderIdentification

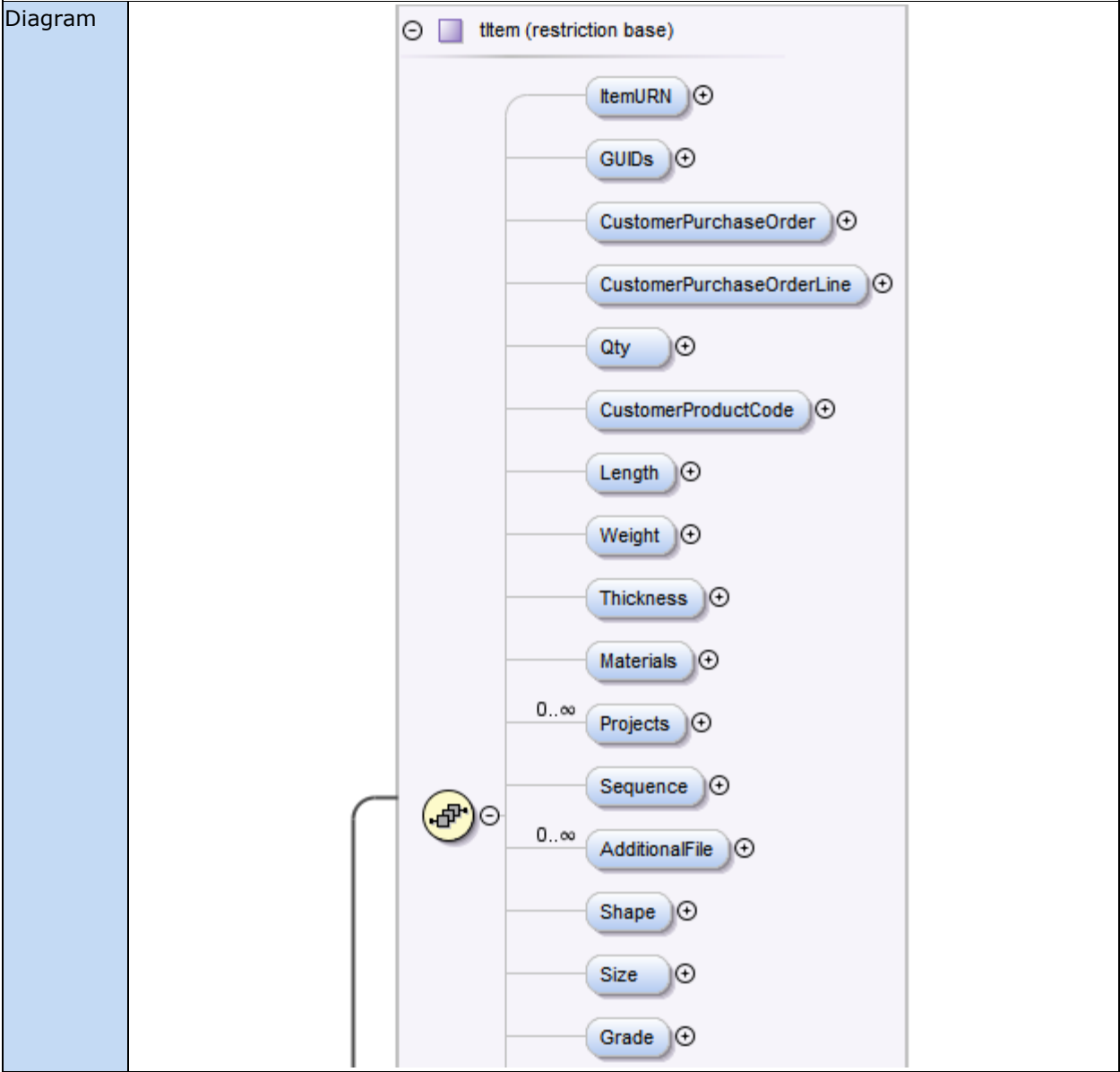
Diagram	
Type	restriction of <b>tMaterialOrderIdentification</b>
Type hierarchy	<b>tMaterialOrderIdentification</b> <b>etMaterialOrderIdentification</b>
Used by	Element <b>etOrderInformation/MaterialOrderIdentification</b>
Model	<b>Customers</b>
Source	<pre> &lt;xs:complexType name="etMaterialOrderIdentification"&gt;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

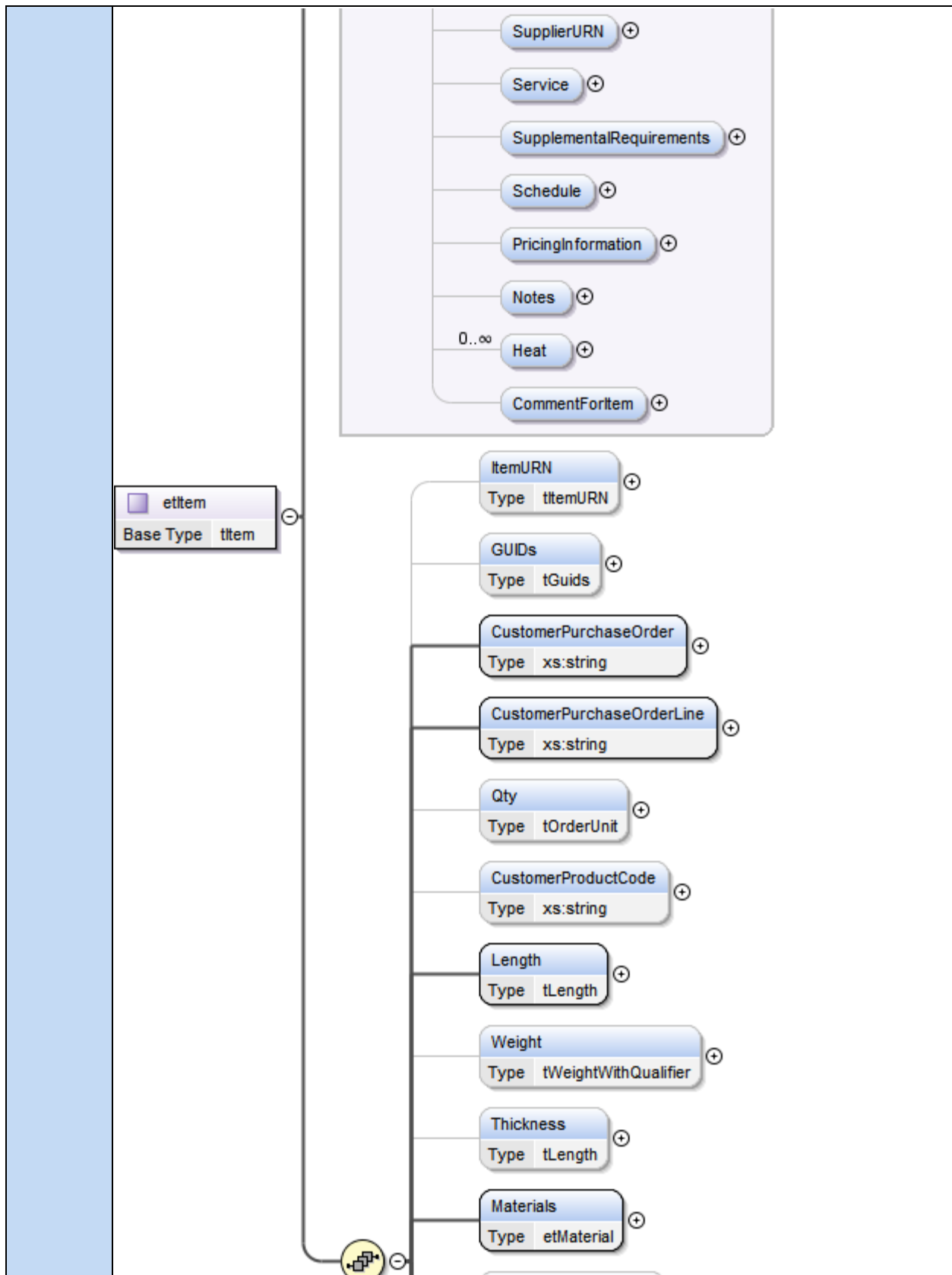
## 5.12 etMaterialCustomer

Diagram	
Type	restriction of <b>tMaterialCustomer</b>
Type hierarchy	<b>tMaterialCustomer</b> <b>etMaterialCustomer</b>
Used by	Element <b>etMaterialOrderIdentification/Customers</b>
Model	<b>OpportunityIdentifier</b>
Source	<pre> &lt;xs:complexType name="etMaterialCustomer"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tMaterialCustomer"&gt;       &lt;xs:sequence&gt; </pre>

	<pre> &lt;xs:element name="OpportunityIdentifier" type="xs:token" minOccurs="1" maxOccurs="1"/&gt; &lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
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### 5.13 etItem





Type	restriction of <b>tItem</b>
Type hierarchy	<b>tItem</b> <b>etItem</b>
Used by	Element <b>etOrder/Item</b>
Model	<b>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</b>
Source	<pre> &lt;xs:complexType name="etItem"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tItem"&gt;       &lt;xs:sequence&gt;         &lt;xs:element minOccurs="0" name="ItemURN" type="tItemURN"/&gt;         &lt;xs:element name="GUIDs" type="tGuids" minOccurs="0"/&gt;         &lt;xs:element minOccurs="1" name="CustomerPurchaseOrder" type="xs:string"/&gt; </pre>

```

        <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:complexType>

```

## 5.14 etMaterial

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



## 5.15 etSchedule

Diagram	<p>The diagram illustrates the etSchedule type as a restriction of the tSchedule type. The tSchedule (restriction base) contains four elements: RespondByDate, NeedDeliveryDateTime, AvailableDate, and ActualDate. The etSchedule type, which is a restriction of tSchedule, contains three elements: NeedDeliveryDateTime (Type: xs:dateTime), AvailableDate (Type: tAvailableDate), and ActualDate (Type: tActualDate).</p>
Type	restriction of <b>tSchedule</b>
Type hierarchy	<b>tSchedule</b> <b>etSchedule</b>
Used by	Element <b>etItem/Schedule</b>
Model	<b>NeedDeliveryDateTime , AvailableDate{0,1} , ActualDate{0,1}</b>
Source	<pre> &lt;xs:complexType name="etSchedule"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tSchedule"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="AvailableDate" type="tAvailableDate" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="ActualDate" type="tActualDate" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

## 5.16 etPricingInformation

Diagram	
Type	restriction of <b>tPricingInformation</b>
Type hierarchy	<b>tPricingInformation</b> <b>etPricingInformation</b>
Used by	Element <b>etItem/PricingInformation</b>
Model	<b>MaterialPrice , FreightPrice , PreprocessingPrice{0,1}</b>
Source	<pre> &lt;xs:complexType name="etPricingInformation"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tPricingInformation"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="MaterialPrice" type="etMaterialPrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="FreightPrice" type="etFreightPrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="PreprocessingPrice" type="tPreprocessingPrice" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

## 5.17 etMaterialPrice

Diagram	<p>The diagram illustrates the restriction of the <b>tMaterialPrice</b> type to the <b>etMaterialPrice</b> type. The <b>etMaterialPrice</b> type is shown as a restriction of <b>tMaterialPrice</b>. The <b>tMaterialPrice</b> type is defined as a sequence of four elements: <b>BasePrice</b>, <b>SurchargePrice</b>, <b>Extras</b>, and <b>Terms</b>. The <b>etMaterialPrice</b> type is defined as a restriction of <b>tMaterialPrice</b> where the <b>BasePrice</b> element is of type <b>tBasePriceUnit</b>, <b>SurchargePrice</b> is of type <b>tSurchargePrice</b>, <b>Extras</b> is of type <b>tExtras</b>, and <b>Terms</b> is of type <b>tTerms</b>.</p>
Type	restriction of <b>tMaterialPrice</b>
Type hierarchy	<b>tMaterialPrice</b> <b>etMaterialPrice</b>
Used by	Element <b>etPricingInformation/MaterialPrice</b>
Model	<b>BasePrice</b> , <b>SurchargePrice</b> {0,1} , <b>Extras</b> {0,1} , <b>Terms</b> {0,1}
Source	<pre> &lt;xs:complexType name="etMaterialPrice"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tMaterialPrice"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="BasePrice" type="tBasePriceUnit" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SurchargePrice" type="tSurchargePrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Extras" type="tExtras" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="Terms" type="tTerms" minOccurs="0" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

## 5.18 etFreightPrice

Diagram	<p>The diagram illustrates the XSD structure for <b>etFreightPrice</b>. It is a restriction of the base type <b>tFreightPrice</b>. The structure is defined by a sequence of five elements, each with a '+' sign indicating it is optional:</p> <ul style="list-style-type: none"> <li><b>BaseFreightPrice</b>: Type <b>tFreightBasePrice</b></li> <li><b>SurchargePrice</b>: Type <b>tFreightBasePrice</b></li> <li><b>SupplementaryFreightPrice</b>: Type <b>tSupplementaryFreightPrice</b></li> <li><b>FOBPoint</b>: Type <b>xs:string</b></li> <li><b>Method</b>: Type <b>tMethod</b></li> </ul>
Type	restriction of <b>tFreightPrice</b>
Type hierarchy	<b>tFreightPrice</b> <b>etFreightPrice</b>
Used by	Element <b>etPricingInformation/FreightPrice</b>
Model	<b>BaseFreightPrice</b> , <b>SurchargePrice{0,1}</b> , <b>SupplementaryFreightPrice{0,1}</b> , <b>FOBPoint</b> , <b>Method</b>
Source	<pre> &lt;xs:complexType name="etFreightPrice"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="tFreightPrice"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="BaseFreightPrice" type="tFreightBasePrice" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="SurchargePrice" type="tFreightBasePrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="SupplementaryFreightPrice" type="tSupplementaryFreightPrice" minOccurs="0" maxOccurs="1"/&gt;         &lt;xs:element name="FOBPoint" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element name="Method" type="tMethod" minOccurs="1" maxOccurs="1"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>

	<pre>&lt;/xs:sequence&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>
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