steelXML

The Common XML Schema for the Electronic Procurement of Structural Steel

Volume 2. Baseline, Country Code, Currency Code, and Element Code Schema

Version 1.0

American Institute of Steel Construction

Georgia Institute of Technology

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Contents

1 Overview

Volume 1 of steelXML documentation covers Baseline schema, Country Code schema, Currency Code Schema, and Element Code schema.
The main schema contains all types that define the unit of exchanges. Exchange specific sub schema specializes the baseline types according to its purpose. Thus, the main schema (Baseline.xsd) can be referenced from the sub schema files of transaction domains consist of: - Availability Inquiry, RFQ, Purchase Order, Order Status, ASN, MTR, Invoice, Payment, Sustainability, and Bill of Lading.

Revision History
version 0r39

- tGrade is added to speficify attributes.
- tElementCode definition is separated to ElementCode.xsd

version 0r38

- tShape, tSize and tGrade are changed to xs:token without any restriction.
- Following schemas are no longer used : AISCGrade.xsd, AISCShape.xsd, AISCSize14_1.xsd, AISCSize14_1H.xsd, EuropeanSize.xsd, Grade.xsd, IntermediateCaller.xsd, and Shape.xsd

version 0.37

- tShape, tSize, and tGrade are updated to new structure. Grade is now an immediate sub element of tItem
- GUID is replaced with GUIDs as an item represents multiple model objects of same types.

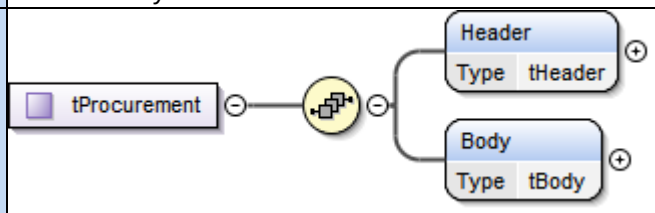
version 0.36

- removed stAddress for tSupplier and replaced with tAddress.
- tSupplier refers to tAddress removed UOM element in tPreprocessingPrice.
- tTemperature's UOM attribute can be either F or C, instead of "Degrees Fahrenheit" or "Degrees Centigrade".
- tFreightSurchargePrice is renamed to tFreightFuelSurcharge and element attribute "Type" is removed.
- tThickness is now substituted with tLength.
- tOrderUnitEnum is now tLengthWeightCountUOM
- tLengthPercentEnum is now LengthPercentUOM
- tPreProcessingUOMEnum is now tPcCwtUOM
- etPreProcessingUOMEnum is now tPcEaCwtUOM
- Grade under tStandardShape is moved under tItem after Shape
- DrillsOrPunches in tPreProcesssing is now Holes
- tDrilledOrPunchedAdditionalInfo is now tHole
- DrillsOrPunches in tHole is now CuttingMethod
- tDrillsOrPunches is now tCuttingMethod
- the contents of tDrilledOrPunched is now appended into tHole as a child element, and tDrilledOrPunched is removed.
- tHoleLocation is now xs:simpleType

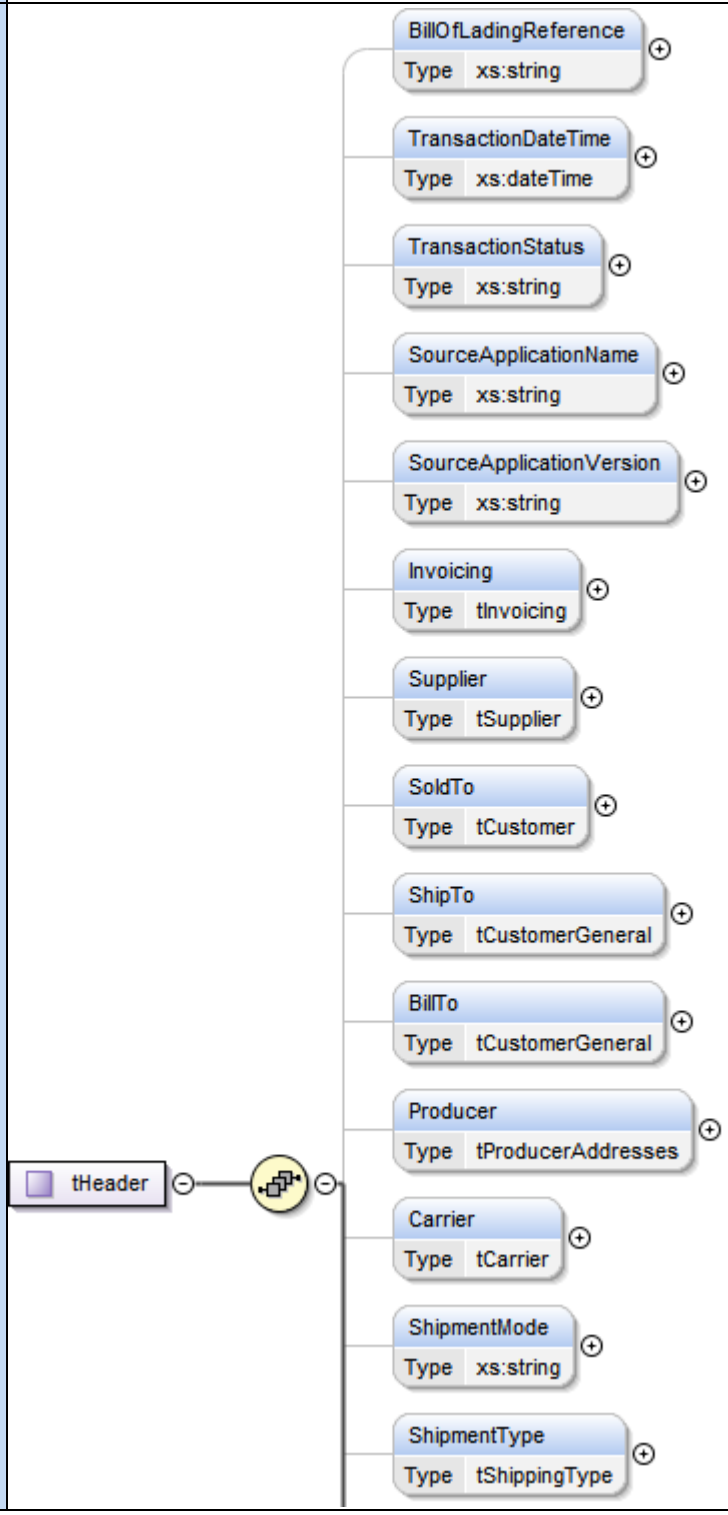
- tSplittingTeesAdditionalInfo is now tSplittingTee and updated.
- tCutTosizes and tCutToSizesAdditionalInfo are removed and tCutTosize is updated.
- tProcessing directly refers tCutTosize instead of tCutToSizesAdditionalInfo.

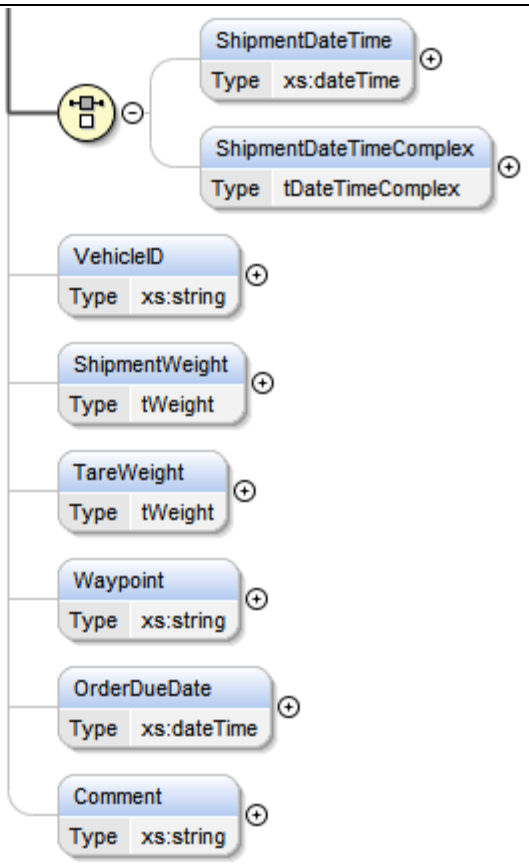
2 Complex Types

2.1 tProcurement

Annotations	The tProcurment type is a base type for the Root Element consisting of the Header element and the Body element.
Diagram	
Used by	Element **AISCProcurement**
Model	**Header** , **Body**
Source	<xs:complexType name="tProcurement"> <xs:annotation> <xs:documentation>The tProcurment type is a base type for the Root Element consisting of the Header element and the Body element.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="Header" type="tHeader"> <xs:annotation> <xs:documentation>The Header element contains general information of a transaction regarding a buyer and a supplier.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Body" type="tBody"> <xs:annotation> <xs:documentation>The Body element contains general information of a transaction regarding a buyer and a supplier.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.2 tHeader

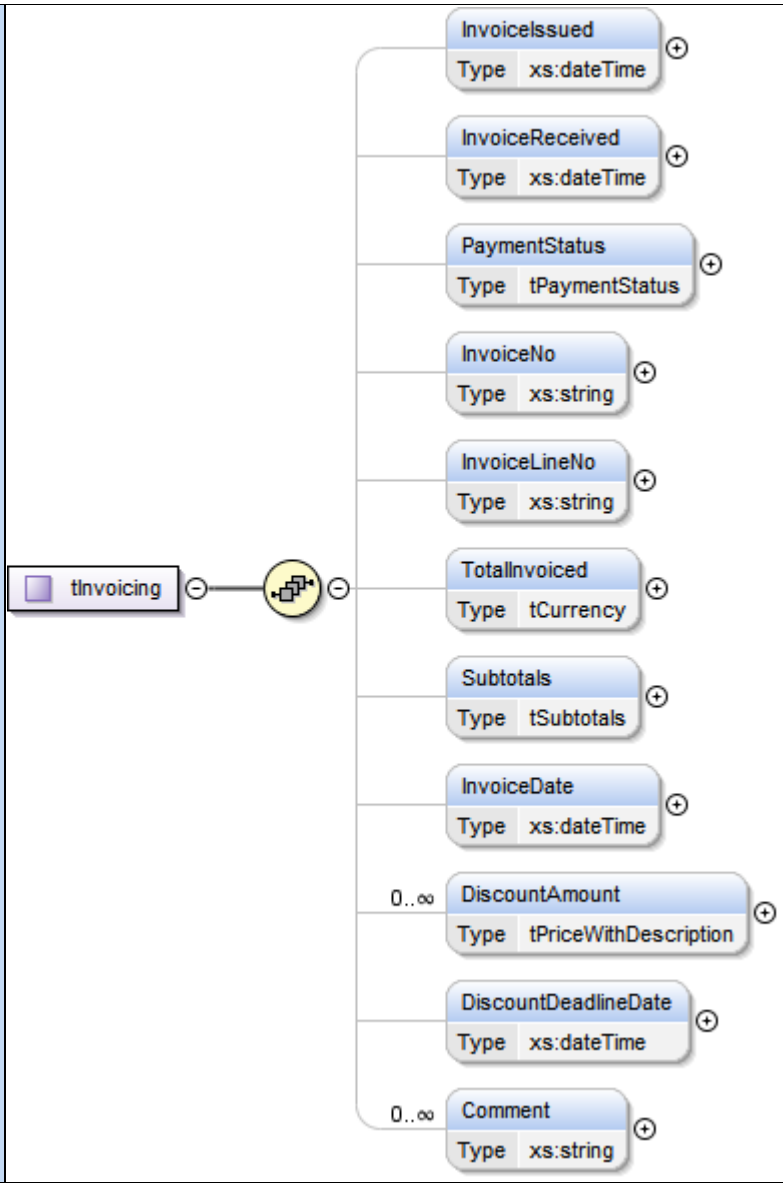
Annotations	The tHeader type describes all information applicable to the exchange.
Diagram	

<table>
<tr><td></td><td> 
</td></tr>
<tr><td>Used by</td><td>Element tProcurement/Header</td></tr>
<tr><td>Model</td><td>BillOfLadingReference{0,1} , TransactionDateTime{0,1} , TransactionStatus{0,1} , SourceApplicationName{0,1} , SourceApplicationVersion{0,1} , Invoicing{0,1} , Supplier{0,1} , SoldTo{0,1} , ShipTo{0,1} , BillTo{0,1} , Producer{0,1} , Carrier{0,1} , ShipmentMode{0,1} , ShipmentType{0,1} , (ShipmentDateTime{0,1} | ShipmentDateTimeComplex{0,1}) , VehicleID{0,1} , ShipmentWeight{0,1} , TareWeight{0,1} , Waypoint{0,1} , OrderDueDate{0,1} , Comment{0,1}</td></tr>
<tr><td>Source</td><td><pre>
<xs:complexType name="tHeader">
  <xs:annotation>
    <xs:documentation>The tHeader type describes all information applicable to the exchange.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <!-- ASN -->
    <xs:element name="BillOfLadingReference" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element is a reference to the associated Bill of Lading document.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TransactionDateTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="TransactionStatus" type="xs:string" minOccurs="0">
      <xs:annotation>
</pre></td></tr>
</table>

```
        <xs:documentation>The transaction status could be one of the
following: Fulfillment (Rolling, In Inventory) and Order (Order
Prepared, Order Sent, Order Received, Order Committed, Order
Cancelled, Cancellation Confirmed, Order Declined, Unable to place
Loaded, Shipped, Delivered, Received, Receipt
Refused).</xs:documentation>
      </xs:annotation>
    </xs:element>
    <!-- End ASN -->
    <xs:element name="SourceApplicationName" type="xs:string"
minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>This element is used to note what software
created the file.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SourceApplicationVersion" type="xs:string"
minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>This element is used to note the version
of software that created the file.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Invoicing" type="tInvoicing" minOccurs="0"/>
    <xs:element name="Supplier" type="tSupplier" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="SoldTo" type="tCustomer" minOccurs="0"/>
    <xs:element name="ShipTo" type="tCustomerGeneral"
minOccurs="0"/>
    <xs:element name="BillTo" type="tCustomerGeneral"
minOccurs="0"/>
    <xs:element name="Producer" type="tProducerAddresses"
minOccurs="0"/>
    <xs:element name="Carrier" type="tCarrier" minOccurs="0"/>
    <!-- ASN -->
    <xs:element name="ShipmentMode" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Shipment mode can be either Truck, Rail,
Barge, or Transload.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ShipmentType" type="tShippingType"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>Shipment type can be either Prepaid or
Collect.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:choice>
      <xs:annotation>
        <xs:documentation>For representing Shipment DateTime, two
options are available: ShipmentDateTime and
ShipmentDateTimeComplex.</xs:documentation>
      </xs:annotation>
      <xs:element name="ShipmentDateTime" type="xs:dateTime"
minOccurs="0">
```

```
        <xs:annotation>
          <xs:documentation>Date and Time are specified in one
element. (i.e. 2002-05-30T09:00:00)</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="ShipmentDateTimeComplex"
type="tDateTimeComplex" minOccurs="0">
        <xs:annotation>
          <xs:documentation>Date and Time can be separatly
specified.</xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:choice>
    <xs:element name="VehicleID" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element represents the vehicle
identification number such as railcar number, truck number, and
etc.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ShipmentWeight" type="tWeight" minOccurs="0"/>
    <xs:element name="TareWeight" type="tWeight" minOccurs="0"/>
    <xs:element name="Waypoint" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element shows the shipment waypoint
such as Customer, Supplier, and Other.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <!-- End ASN -->
    <xs:element name="OrderDueDate" type="xs:dateTime"
minOccurs="0"/>
    <xs:element name="Comment" type="xs:string" minOccurs="0"
maxOccurs="1">
      <xs:annotation>
        <xs:documentation>This element contains additional
information.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

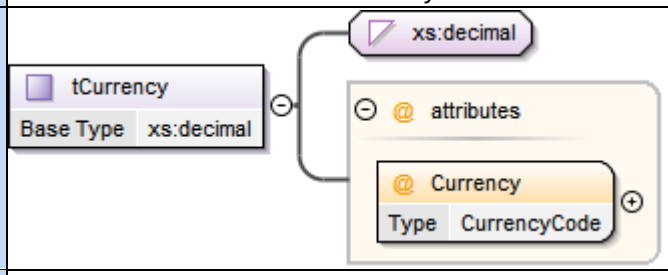
2.3 tInvoicing

Diagram	
Used by	Element **tHeader/Invoicing**
Model	**InvoiceIssued{0,1}** , **InvoiceReceived{0,1}** , **PaymentStatus{0,1}** , **InvoiceNo{0,1}** , **InvoiceLineNo{0,1}** , **TotalInvoiced{0,1}** , **Subtotals{0,1}** , **InvoiceDate{0,1}** , **DiscountAmount*** , **DiscountDeadlineDate{0,1}** , **Comment***

Source	`<xs:complexType name="tInvoicing">`
	`  <xs:sequence>`
	`  <xs:element name="InvoiceIssued" type="xs:dateTime" minOccurs="0"/>`
	`  <xs:element name="InvoiceReceived" type="xs:dateTime" minOccurs="0"/>`
	`  <xs:element name="PaymentStatus" type="tPaymentStatus" minOccurs="0">`
	`  <xs:annotation>`

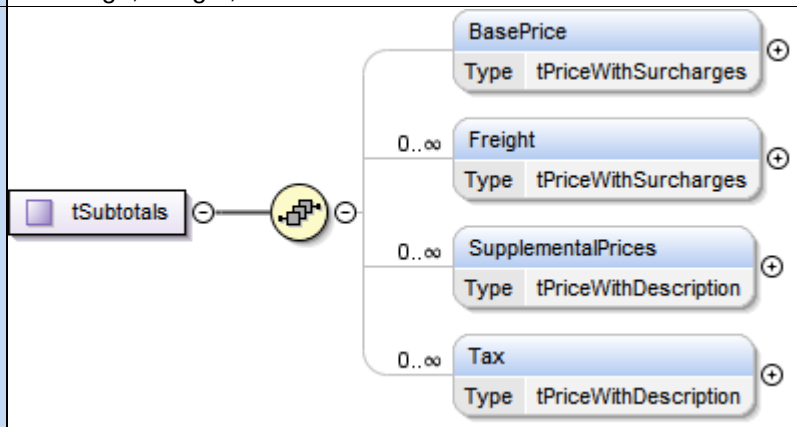
```
        <xs:documentation>PaymentStatus element has information
regarding Paid, Unpaid, and Partial paid.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="InvoiceNo" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Payables print the number of the
invoice.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="InvoiceLineNo" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The reports print Invoice, if the problem
is at the invoice level.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TotalInvoiced" type="tCurrency" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element gives the total amount of
price invoiced.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Subtotals" type="tSubtotals" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The Subtotals element contains categorized
prices including Base Price, Surcharge, Freight, Tax and other
costs.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="InvoiceDate" type="xs:dateTime"
minOccurs="0"/>
    <xs:element name="DiscountAmount" type="tPriceWithDescription"
minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="DiscountDeadlineDate" type="xs:dateTime"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element shows the due date when a
discounted price is available.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Comment" type="xs:string" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

2.4 tCurrency

Annotations	This element describes the currency referenced from the currency code schema.
Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tInvoicing/TotalInvoiced**, **tPreprocessingPriceType/Price**, **tPriceWithDescription/Price**, **tPriceWithSurcharges/Price**, **tSurcharge/Price** Complex Types **tBasePriceUnit**, **tCTL**, **tFreightBasePrice**
Attributes	QName: Currency; Type: **CurrencyCode**; Fixed: ; Default: ; Use: required; Annotation:

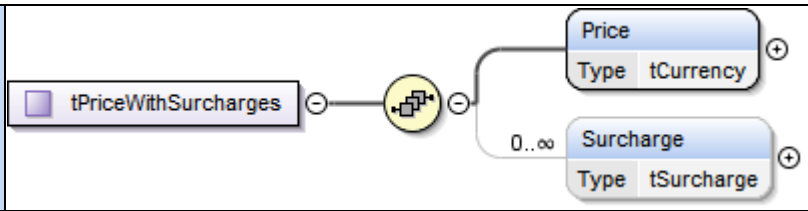
Source	`<xs:complexType name="tCurrency">`
	`  <xs:annotation>`
	`  <xs:documentation>This element describes the currency referenced from the currency code schema.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="Currency" type="CurrencyCode" use="required"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

2.5 tSubtotals

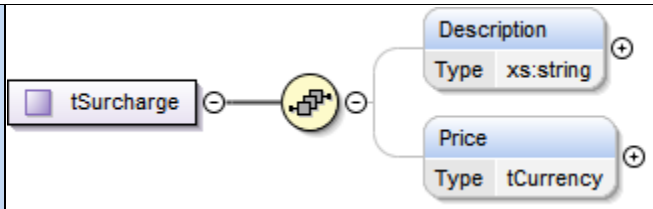
Annotations	This element can contain categorized prices including Base Price, Surcharge, Freight, Tax and other costs.
Diagram	
Used by	Element **tInvoicing/Subtotals**
Model	**BasePrice{0,1}** , **Freight*** , **SupplementalPrices*** , **Tax***

Source	<xs:complexType name="tSubtotals"> <xs:annotation> <xs:documentation>This element can contain categorized prices including Base Price, Surcharge, Freight, Tax and other costs.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="BasePrice" type="tPriceWithSurcharges" minOccurs="0"> <xs:annotation> <xs:documentation>The BasePrice element represents a base price and other surcharges.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Freight" type="tPriceWithSurcharges" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The Freight element represents a freight price and other surcharges.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="SupplementalPrices" type="tPriceWithDescription" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="Tax" type="tPriceWithDescription" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.6 tPriceWithSurcharges

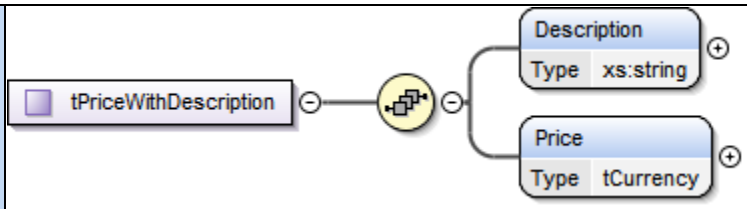
Diagram	
Used by	Elements **tSubtotals/BasePrice**, **tSubtotals/Freight**
Model	**Price** , **Surcharge***
Source	<xs:complexType name="tPriceWithSurcharges"> <xs:sequence> <xs:element name="Price" type="tCurrency" minOccurs="1"/> <xs:element name="Surcharge" type="tSurcharge" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.7 tSurcharge

Diagram	
Used by	Element **tPriceWithSurcharges/Surcharge**
Model	**Description{0,1}** , **Price{0,1}**

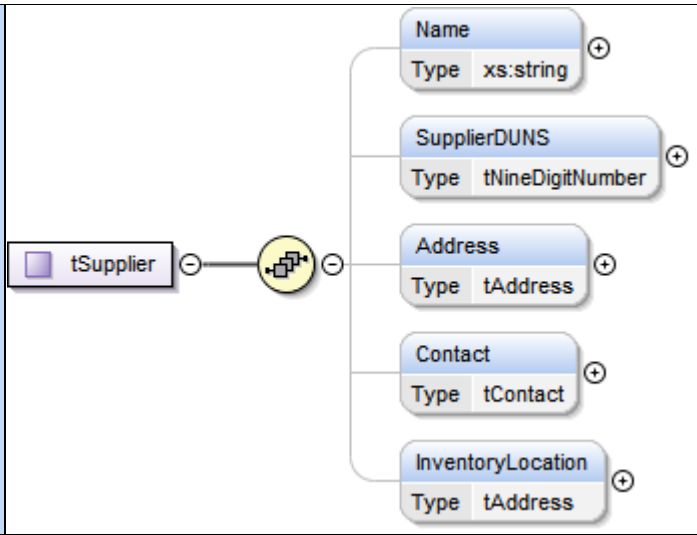
Source	`<xs:complexType name="tSurcharge">`
	`  <xs:sequence>`
	`  <xs:element name="Description" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Price" type="tCurrency" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.8 tPriceWithDescription

Diagram	
Used by	Elements **tInvoicing/DiscountAmount**, **tSubtotals/SupplementalPrices**, **tSubtotals/Tax**
Model	**Description** , **Price**

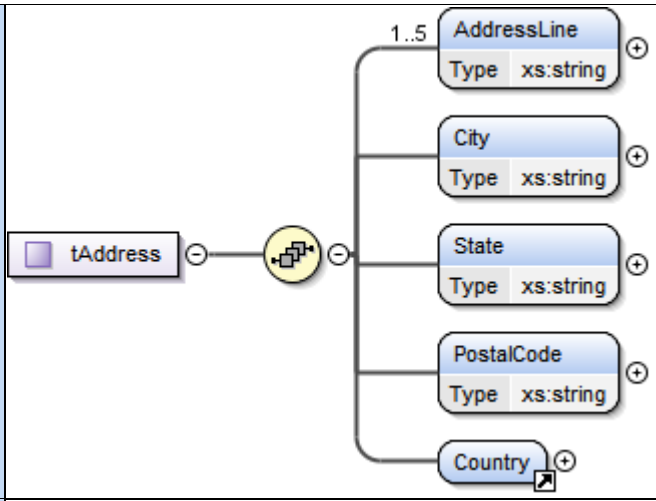
Source	`<xs:complexType name="tPriceWithDescription">`
	`  <xs:sequence>`
	`  <xs:element name="Description" type="xs:string"/>`
	`  <xs:element name="Price" type="tCurrency"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.9 tSupplier

Diagram	
Used by	Element **tHeader/Supplier**
Model	**Name{0,1}** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}** , **InventoryLocation{0,1}**

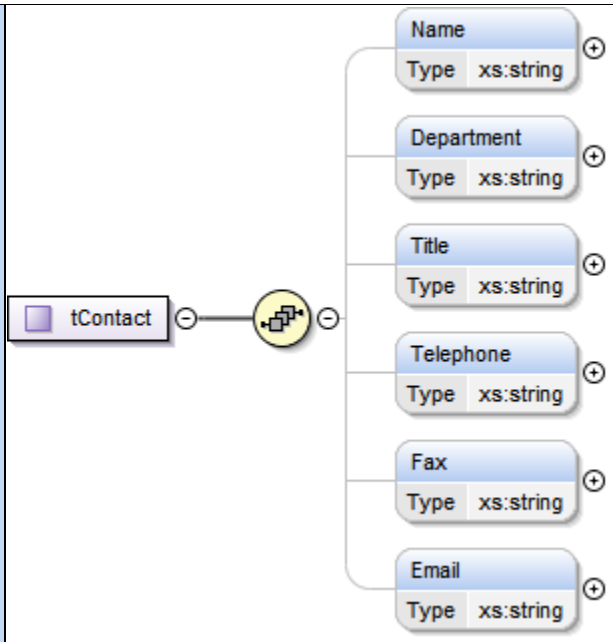
Source	`<xs:complexType name="tSupplier">`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="SupplierDUNS" type="tNineDigitNumber" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>This type plays a role in restricting the number of string to nine digits.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="Address" type="tAddress" minOccurs="0"/>`
	`  <xs:element name="Contact" type="tContact" minOccurs="0"/>`
	`  <xs:element name="InventoryLocation" type="tAddress" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.10 tAddress

Diagram	
Used by	Elements **tAddressContact/Address**, **tCarrier/Address**, **tCustomer/Address**, **tCustomerGeneral/Address**, **tProducerAddresses/MeltShop**, **tProducerAddresses/RollingMill**, **tSupplier/Address**, **tSupplier/InventoryLocation**
Model	**AddressLine{1,5}** , **City** , **State** , **PostalCode** , **Country**

Source	`<xs:complexType name="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:complexType>`

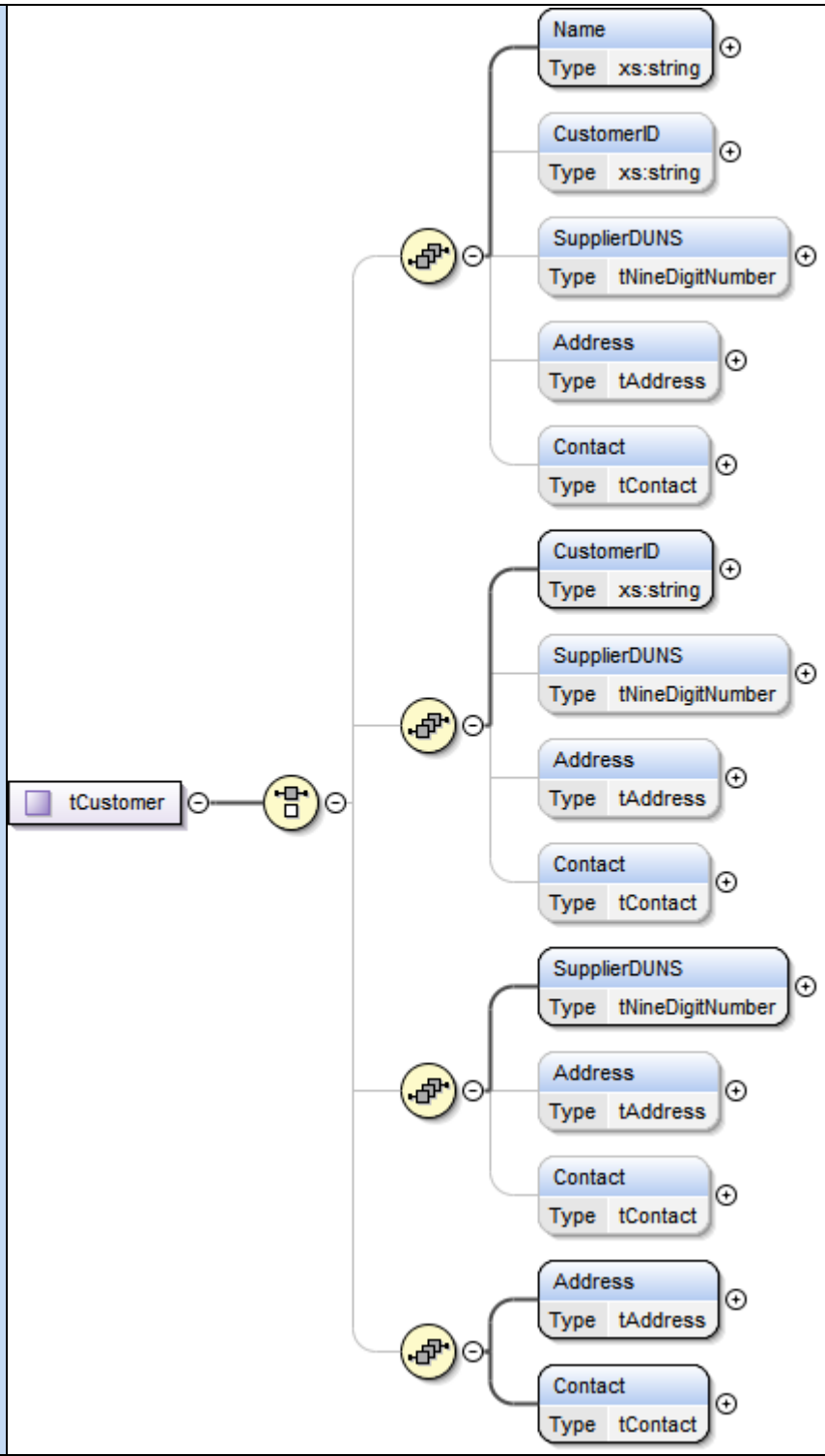
2.11 tContact

Diagram	
Used by	Elements **tAddressContact/Contact**, **tCarrier/Contact**, **tCustomer/Contact**, **tCustomerGeneral/Contact**, **tSupplier/Contact**
Model	**Name{0,1}** , **Department{0,1}** , **Title{0,1}** , **Telephone{0,1}** , **Fax{0,1}** , **Email{0,1}**

Source	`<xs:complexType name="tContact">`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Department" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Title" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Telephone" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Fax" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="Email" type="xs:string" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.12 tCustomer

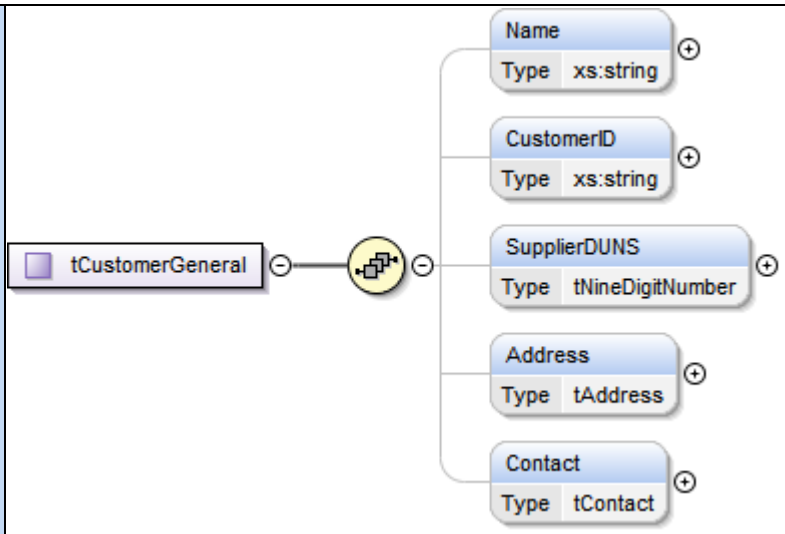
Annotations	The tCustomer has four different representation options depending on the mandatory value, which can be Name, Customer ID, Supplier DUNS, or a combination of Address and Contact.

Diagram	
Used by	Element **tHeader/SoldTo**
Model	(**Name** , **CustomerID{0,1}** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}**) | (**CustomerID** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}**) | (**SupplierDUNS** , **Address{0,1}** , **Contact{0,1}**) | (**Address** , **Contact**)
Source	`<xs:complexType name="tCustomer">` `  <xs:annotation>`

```
    <xs:documentation>The tCustomer has four different
representation options depending on the mandatory value, which can
be Name, Customer ID, Supplier DUNS, or a combination of Address and
Contact.</xs:documentation>
  </xs:annotation>
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:sequence minOccurs="0" maxOccurs="1">
      <xs:element name="Name" type="xs:string" minOccurs="1"/>
      <xs:element name="CustomerID" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation>Customer ID is used to identify
customers.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="SupplierDUNS" type="tNineDigitNumber"
minOccurs="0">
        <xs:annotation>
          <xs:documentation>This nine digit DUNS number (for Data
Universal Numbering System) is a unique identifier for
suppliers.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Address" type="tAddress" minOccurs="0"/>
      <xs:element name="Contact" type="tContact" minOccurs="0"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="1">
      <xs:element name="CustomerID" type="xs:string" minOccurs="1">
        <xs:annotation>
          <xs:documentation>Customer ID is used to identify
customers.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="SupplierDUNS" type="tNineDigitNumber"
minOccurs="0">
        <xs:annotation>
          <xs:documentation>This nine digit DUNS number (for Data
Universal Numbering System) is a unique identifier for
suppliers.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Address" type="tAddress" minOccurs="0"/>
      <xs:element name="Contact" type="tContact" minOccurs="0"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="1">
      <xs:element name="SupplierDUNS" type="tNineDigitNumber"
minOccurs="1">
        <xs:annotation>
          <xs:documentation>This nine digit DUNS number (for Data
Universal Numbering System) is a unique identifier for
suppliers.</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Address" type="tAddress" minOccurs="0"/>
      <xs:element name="Contact" type="tContact" minOccurs="0"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="1">
```

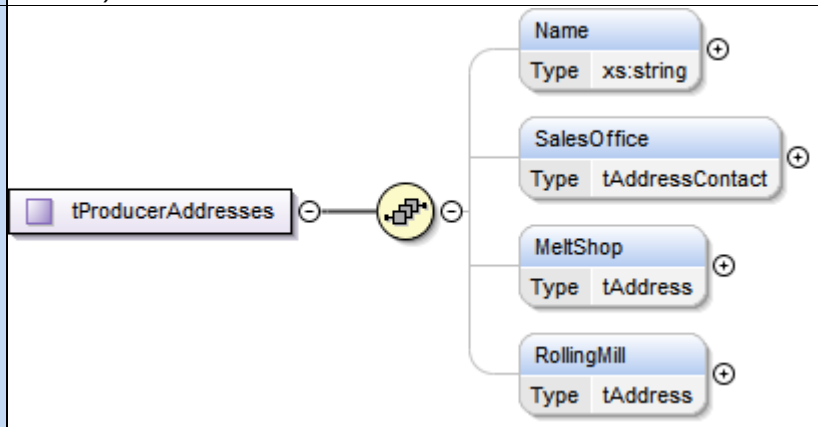
```
      <xs:element name="Address" type="tAddress" minOccurs="1"/>
      <xs:element name="Contact" type="tContact" minOccurs="1"/>
    </xs:sequence>
  </xs:choice>
</xs:complexType>
```

2.13 tCustomerGeneral

Diagram	
Used by	Elements **tHeader/BillTo**, **tHeader/ShipTo**
Model	**Name{0,1}** , **CustomerID{0,1}** , **SupplierDUNS{0,1}** , **Address{0,1}** , **Contact{0,1}**

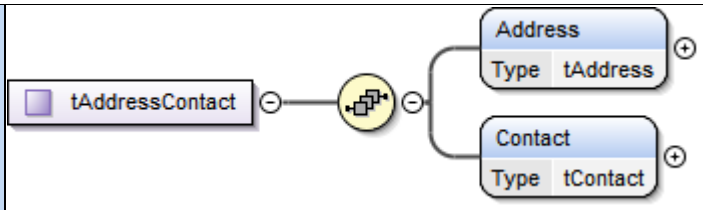
Source	`<xs:complexType name="tCustomerGeneral">`
	`  <xs:sequence>`
	`    <xs:element name="Name" type="xs:string" minOccurs="0"/>`
	`    <xs:element name="CustomerID" type="xs:string" minOccurs="0">`
	`      <xs:annotation>`
	`        <xs:documentation>Customer ID is used to identify customers.</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:element>`
	`    <xs:element name="SupplierDUNS" type="tNineDigitNumber" minOccurs="0">`
	`      <xs:annotation>`
	`        <xs:documentation>This nine digit DUNS number (for Data Universal Numbering System) is a unique identifier for suppliers.</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:element>`
	`    <xs:element name="Address" type="tAddress" minOccurs="0"/>`
	`    <xs:element name="Contact" type="tContact" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.14 tProducerAddresses

Annotations	The Producer Address can be SalesOffice (which can have an address and contact information), MeltShop (which can have an address), or RollingMill (which can have an address).
Diagram	
Used by	Element **tHeader/Producer**
Model	**Name{0,1}** , **SalesOffice{0,1}** , **MeltShop{0,1}** , **RollingMill{0,1}**

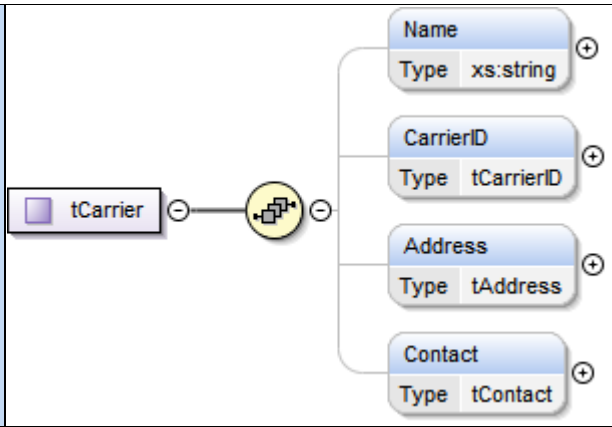
Source	`<xs:complexType name="tProducerAddresses">`
	`  <xs:annotation>`
	`  <xs:documentation>The Producer Address can be SalesOffice (which can have an address and contact information), MeltShop (which can have an address), or RollingMill (which can have an address).</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="SalesOffice" type="tAddressContact" minOccurs="0"/>`
	`  <xs:element name="MeltShop" type="tAddress" minOccurs="0"/>`
	`  <xs:element name="RollingMill" type="tAddress" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.15 tAddressContact

Diagram	
Used by	Element **tProducerAddresses/SalesOffice**
Model	**Address** , **Contact**

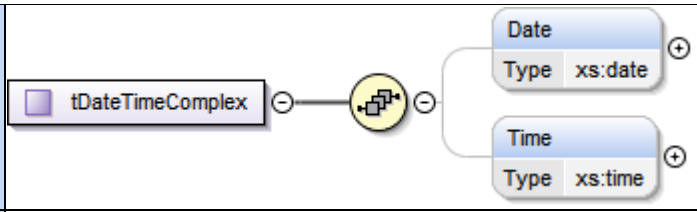
Source	`<xs:complexType name="tAddressContact">`
	`  <xs:sequence>`
	`  <xs:element name="Address" type="tAddress"/>`
	`  <xs:element name="Contact" type="tContact"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.16 tCarrier

Diagram	
Used by	Element **tHeader/Carrier**
Model	**Name{0,1}** , **CarrierID{0,1}** , **Address{0,1}** , **Contact{0,1}**

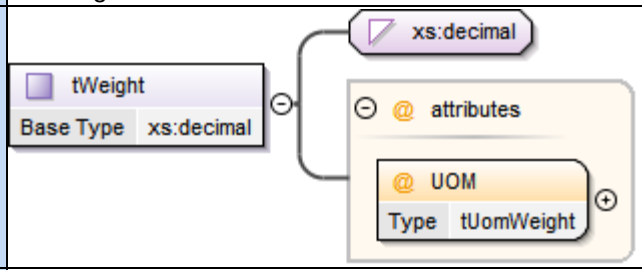
Source	`<xs:complexType name="tCarrier">`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="CarrierID" type="tCarrierID" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>This type restricts the length of Carrier ID from two to four digits.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="Address" type="tAddress" minOccurs="0"/>`
	`  <xs:element name="Contact" type="tContact" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.17 tDateTimeComplex

Diagram	
Used by	Element **tHeader/ShipmentDateTimeComplex**
Model	**Date{0,1}** , **Time{0,1}**

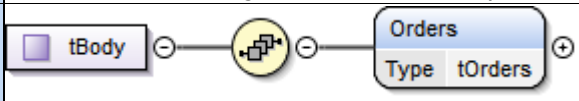
Source	`<xs:complexType name="tDateTimeComplex">`
	`  <xs:sequence>`
	`  <xs:element name="Date" type="xs:date" minOccurs="0"/>`
	`  <xs:element name="Time" type="xs:time" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.18 tWeight

Annotations	Weight is weight of the item, including its quantity: For example, if the item is 10 beams, then the weight is of 10 beams.
Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tHeader/ShipmentWeight**, **tHeader/TareWeight**, **tOrderLogic/MinimumRailFreightWeight**, **tOrderLogic/MinimumShippingWeight**, **tOrderLogic/MinimumTruckFrieghtWeight** Complex Type **tWeightWithQualifier**
Attributes	QName: UOM; Type: **tUomWeight**; Fixed: ; Default: ; Use: required; Annotation:

Source	`<xs:complexType name="tWeight">`
	`<xs:annotation>`
	`<xs:documentation>Weight is weight of the item, including its quantity: For example, if the item is 10 beams, then the weight is of 10 beams.</xs:documentation>`
	`</xs:annotation>`
	`<xs:simpleContent>`
	`<xs:extension base="xs:decimal">`
	`<xs:attribute name="UOM" type="tUomWeight" use="required"/>`
	`</xs:extension>`
	`</xs:simpleContent>`
	`</xs:complexType>`

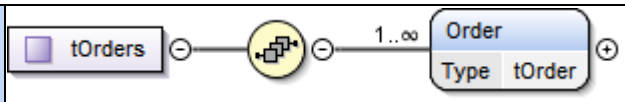
2.19 tBody

Annotations	This element is designed to contain multiple orders.
Diagram	
Used by	Element **tProcurement/Body**
Model	**Orders**

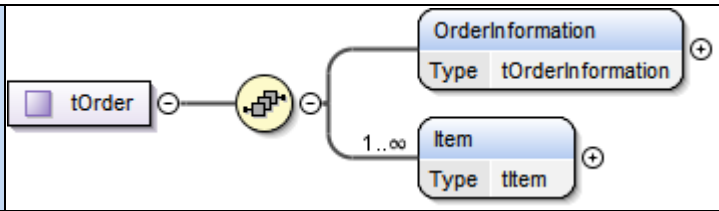
Source	`<xs:complexType name="tBody">`
	`<xs:annotation>`
	`<xs:documentation>This element is designed to contain multiple orders.</xs:documentation>`
	`</xs:annotation>`
	`<xs:sequence>`
	`<xs:element name="Orders" type="tOrders" maxOccurs="1">`
	`<xs:annotation>`
	`<xs:documentation>This element is designed to contain multiple orders.</xs:documentation>`

	</xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.20 tOrders

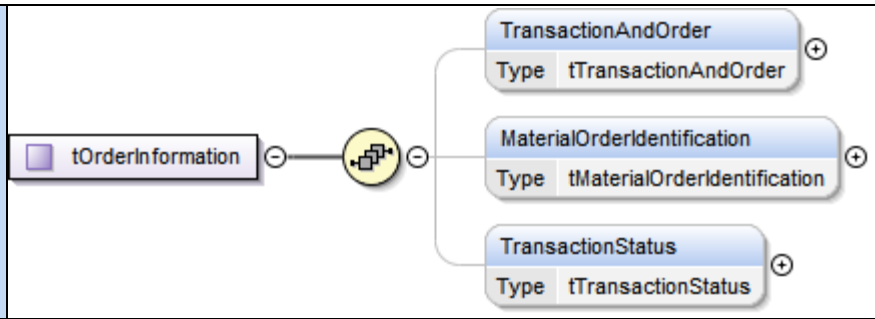
Diagram	
Used by	Element **tBody/Orders**
Model	**Order+**
Source	<xs:complexType name="tOrders"> <xs:sequence> <xs:element name="Order" type="tOrder" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>This element represents order information and item specification.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.21 tOrder

Diagram	
Used by	Element **tOrders/Order**
Model	**OrderInformation , Item+**
Source	<xs:complexType name="tOrder"> <xs:sequence> <xs:element name="OrderInformation" type="tOrderInformation" minOccurs="1"/> <xs:element name="Item" type="tItem" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The Item element depicts detailed item specification.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

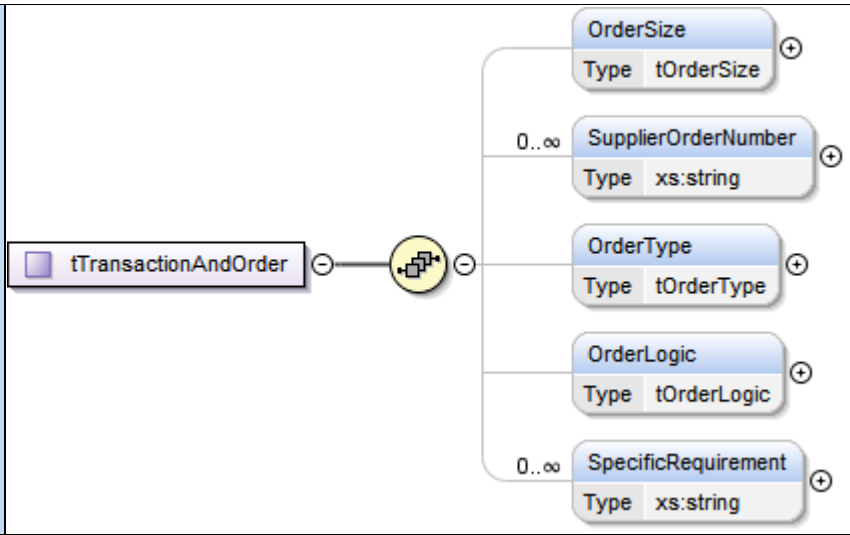
2.22 tOrderInformation

Annotations	The OrderInformation element illustrates order specifications and details.

Diagram	
Used by	Element **tOrder/OrderInformation**
Model	**TransactionAndOrder{0,1}** , **MaterialOrderIdentification{0,1}** , **TransactionStatus{0,1}**

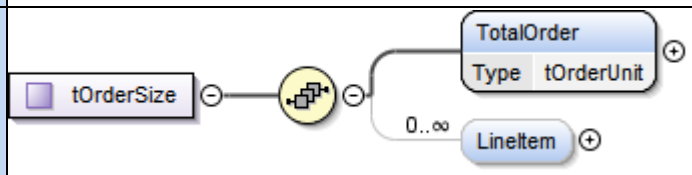
Source	`<xs:complexType name="tOrderInformation">`
	`  <xs:annotation>`
	`  <xs:documentation>`The OrderInformation element illustrates order specifications and details.`</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="TransactionAndOrder" type="tTransactionAndOrder" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>`This element contains order size, unit of measure, supplier order number, order type, order logic, and requirements.`</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="MaterialOrderIdentification" type="tMaterialOrderIdentification" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>`This element contains Customer related identifiers, such as Customer PO Number, Customer PO Line Number, Opportunity Identifier, and RFQ Number.`</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="TransactionStatus" type="tTransactionStatus" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>`The status of transaction can be one of the following: Fulfillment (Rolling, In Inventory) and Order (Order Prepared, Order Sent, Order Received, Order Committed, Order Cancelled, Cancellation Confirmed, Order Declined, Unable to place Loaded, Shipped, Delivered, Received, Receipt Refused).`</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.23 tTransactionAndOrder

Diagram	
Used by	Element **tOrderInformation/TransactionAndOrder**
Model	**OrderSize{0,1}** , **SupplierOrderNumber*** , **OrderType{0,1}** , **OrderLogic{0,1}** , **SpecificRequirement***

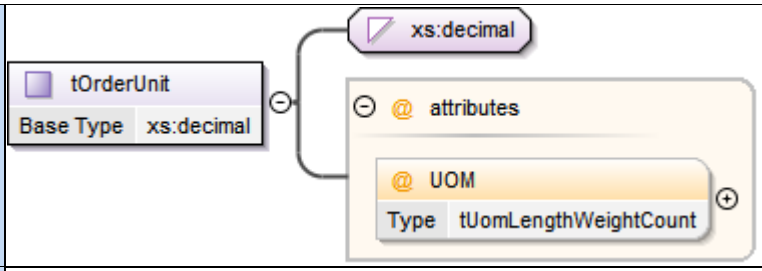
Source	`<xs:complexType name="tTransactionAndOrder">`
	`  <xs:sequence>`
	`  <xs:element name="OrderSize" type="tOrderSize" minOccurs="0"/>`
	`  <xs:element name="SupplierOrderNumber" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  <xs:element name="OrderType" type="tOrderType" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>OrderType includes Spot Buy and VMI (Vendor Managed Inventory).</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="OrderLogic" type="tOrderLogic" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>OrderLogic can be one of the following: Minimum order (bundle), Is nesting (multing) required?, Restock?, Restock code # per Bundle, Minimum Shipping Weight, Minimum Truck Freight Weight, and Minimum Rail Freight Weight.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="SpecificRequirement" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>SpecificRequirement describes additional instructions such as “Must have 4x4 blocking” or “5 ton lift maximum”.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.24 tOrderSize

Annotations	This element describes line item size and total order size.
Diagram	
Used by	Element **tTransactionAndOrder/OrderSize**
Model	**TotalOrder , LineItem***

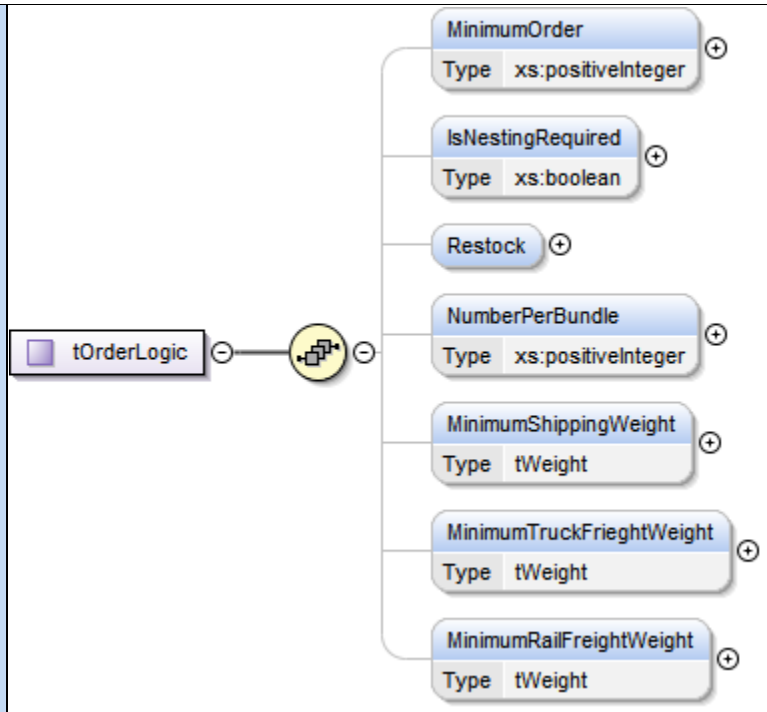
Source	`<xs:complexType name="tOrderSize">`
	`  <xs:annotation>`
	`  <xs:documentation>This element describes line item size and total order size.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="TotalOrder" type="tOrderUnit"/>`
	`  <xs:element name="LineItem" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:complexType>`
	`  <xs:sequence>`
	`  <xs:element name="Name" type="xs:string"/>`
	`  <xs:element name="ItemOrderSize" type="tOrderUnit"/>`
	`  </xs:sequence>`
	`  </xs:complexType>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.25 tOrderUnit

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tItem/Qty**, **tNestedItem/NestedItemQty**, **tOrderSize/LineItem/ItemOrderSize**, **tOrderSize/TotalOrder**
Attributes	QName Type Fixed Default Use Annotation UOM **tUomLengthWeightCount** optional

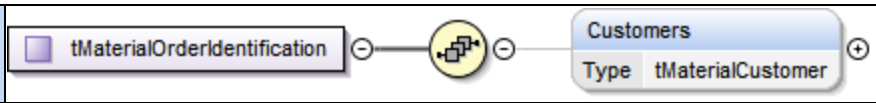
Source	`<xs:complexType name="tOrderUnit">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" type="tUomLengthWeightCount"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

2.26 tOrderLogic

Diagram	
Used by	Element **tTransactionAndOrder/OrderLogic**
Model	**MinimumOrder{0,1}** , **IsNestingRequired{0,1}** , **Restock{0,1}** , **NumberPerBundle{0,1}** , **MinimumShippingWeight{0,1}** , **MinimumTruckFrieghtWeight{0,1}** , **MinimumRailFreightWeight{0,1}**
Source	<xs:complexType name="tOrderLogic"> <xs:sequence> <xs:element name="MinimumOrder" type="xs:positiveInteger" minOccurs="0"/> <xs:element name="IsNestingRequired" type="xs:boolean" minOccurs="0"> <xs:annotation> <xs:documentation>Nesting or multing is required? Multing is the function that combines the lengths of like materials together, such as wide flange beams, angles, flat bar, round bar, channels, and tube steel. Nesting is combining like plates together to form the most economical cut for the material.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Restock" minOccurs="0"> <xs:complexType> <xs:sequence> <xs:element name="IsRestock" type="xs:boolean"> <xs:annotation> <xs:documentation>The answer for this element, restock, can be Yes or No.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="RestockCode" type="xs:string" minOccurs="0"/> </xs:sequence>

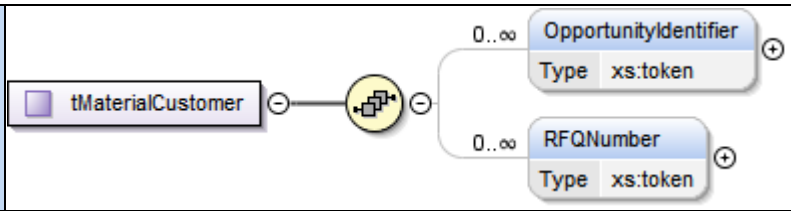
```
      </xs:complexType>
    </xs:element>
    <xs:element name="NumberPerBundle" type="xs:positiveInteger"
minOccurs="0"/>
    <xs:element name="MinimumShippingWeight" type="tWeight"
minOccurs="0"/>
    <xs:element name="MinimumTruckFrieghtWeight" type="tWeight"
minOccurs="0"/>
    <xs:element name="MinimumRailFreightWeight" type="tWeight"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

2.27 tMaterialOrderIdentification

Diagram	
Used by	Element **tOrderInformation/MaterialOrderIdentification**
Model	**Customers{0,1}**

Source	`<xs:complexType name="tMaterialOrderIdentification">`
	`  <xs:sequence>`
	`  <xs:element name="Customers" type="tMaterialCustomer" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Opportunity Identifier and RFQ Number can be contained to identify orders from customers.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:complexType>`

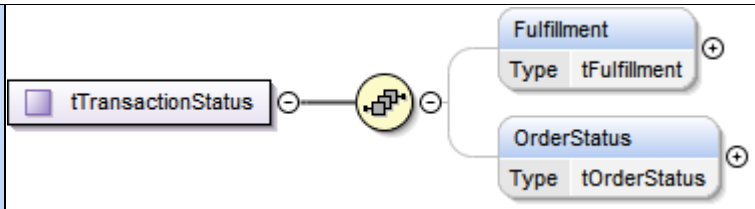
2.28 tMaterialCustomer

Diagram	
Used by	Element **tMaterialOrderIdentification/Customers**
Model	**OpportunityIdentifier* , RFQNumber***

Source	`<xs:complexType name="tMaterialCustomer">`
	`  <xs:sequence>`
	`  <xs:element name="OpportunityIdentifier" type="xs:token" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>This element is an indentifier for PO (which captures the history of the transaction).</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`

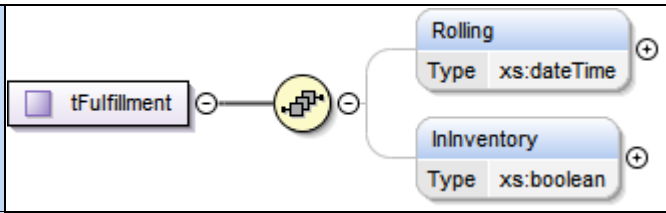
```
    <xs:element name="RFQNumber" type="xs:token" minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This number is used in RFQ in order to
keep track of materials requested by different
customers.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.29 tTransactionStatus

Diagram	
Used by	Element **tOrderInformation/TransactionStatus**
Model	**Fulfillment{0,1}** , **OrderStatus{0,1}**

Source	`<xs:complexType name="tTransactionStatus">`
	`  <xs:sequence>`
	`  <xs:element name="Fulfillment" type="tFulfillment" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>This element represents the status of fulfillment: Rolling or In Inventory.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <!-- Revision 12.17.13 -->`
	`  <xs:element name="OrderStatus" type="tOrderStatus" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

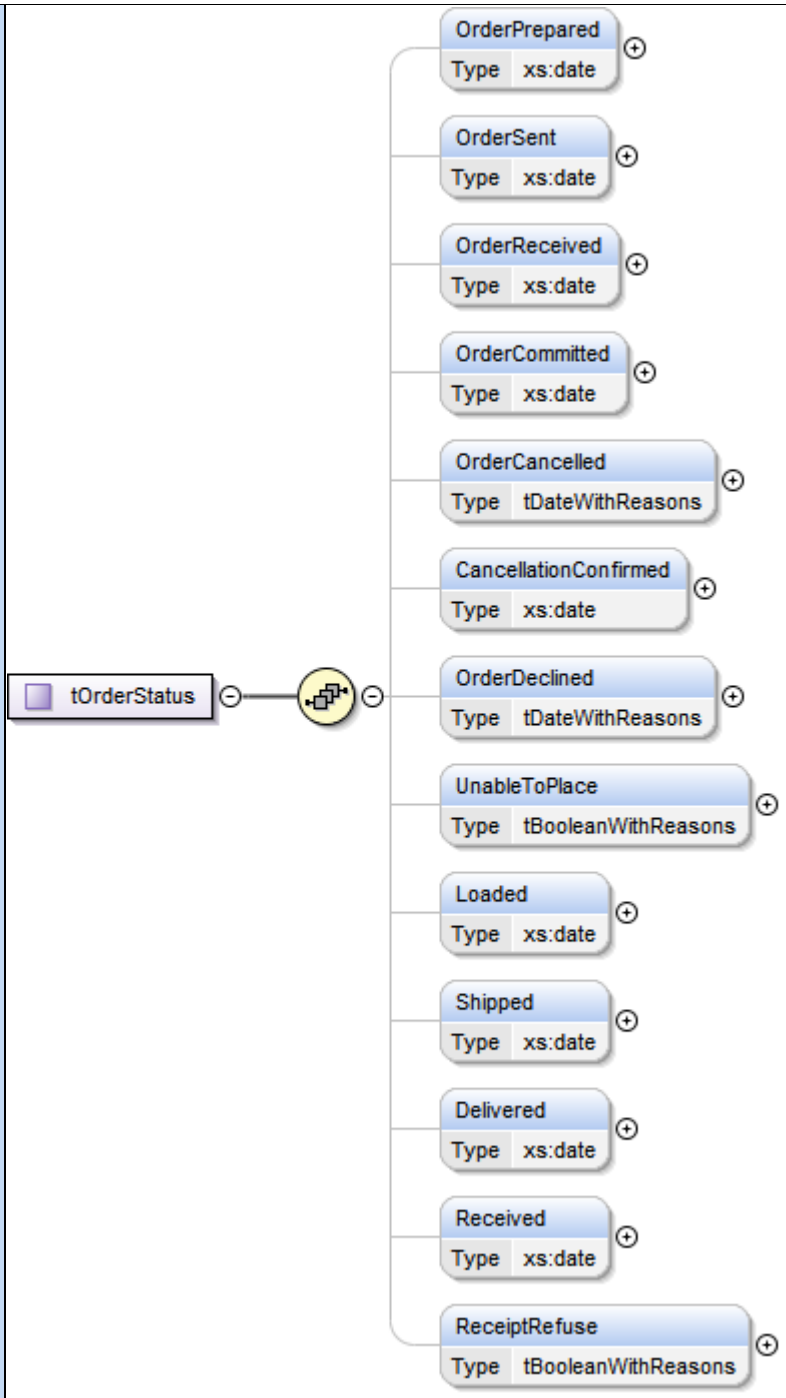
2.30 tFulfillment

Diagram	
Used by	Element **tTransactionStatus/Fulfillment**
Model	**Rolling{0,1}** , **InInventory{0,1}**

Source	`<xs:complexType name="tFulfillment">`
	`  <xs:sequence>`
	`  <xs:element name="Rolling" type="xs:dateTime" minOccurs="0"/>`
	`  <xs:element name="InInventory" type="xs:boolean" minOccurs="0"/>`
	`  </xs:sequence>`

	</xs:complexType>

2.31 tOrderStatus

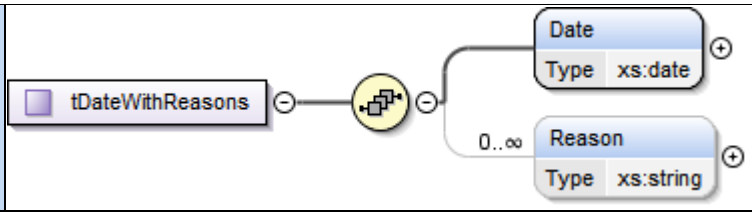
Diagram	
Used by	Element **tTransactionStatus/OrderStatus**
Model	**OrderPrepared{0,1}** , **OrderSent{0,1}** , **OrderReceived{0,1}** , **OrderCommitted{0,1}** , **OrderCancelled{0,1}** , **CancellationConfirmed{0,1}** ,

	OrderDeclined{0,1} , UnableToPlace{0,1} , Loaded{0,1} , Shipped{0,1} , Delivered{0,1} , Received{0,1} , ReceiptRefuse{0,1}
Source	

```
<xs:complexType name="tOrderStatus">
  <xs:sequence>
    <xs:element name="OrderPrepared" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date for
beginning status, which is the only status that does not involve a
transmittal between business parties.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OrderSent" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date for order
sent to vendors.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OrderReceived" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when the
vendor sends their acknowledgement to the customer that they have
received their order.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OrderCommitted" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when the
vendor sends their acknowledgement back to customer they have
accepted the order.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OrderCancelled" type="tDateWithReasons"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>When a customer sends a request to a
vendor to cancel the order, this element contains the date of and
reason for cancellation.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CancellationConfirmed" type="xs:date"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when a
vendor accepts and sends cancel confirmation.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="OrderDeclined" type="tDateWithReasons"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>Vendor sends Acknowledgement back to a
customer they cannot fulfill an order. This element contains the
date and the reason of an order declined</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="UnableToPlace" type="tBooleanWithReasons"
minOccurs="0">
```

```
      <xs:annotation>
        <xs:documentation>This is a reason for an order declined.
Also, this element contains Yes/No and the reason of infeasible
placement.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Loaded" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when all
or parts of an order are loaded onto a carrier.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Shipped" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when a
carrier leaves a vendor with all or parts of an
order.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Delivered" type="xs:date" minOccurs="0"/>
    <xs:element name="Received" type="xs:date" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when a
customer accepts a BOL.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ReceiptRefuse" type="tBooleanWithReasons"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element describes the date when a
customer refuses a BOL.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

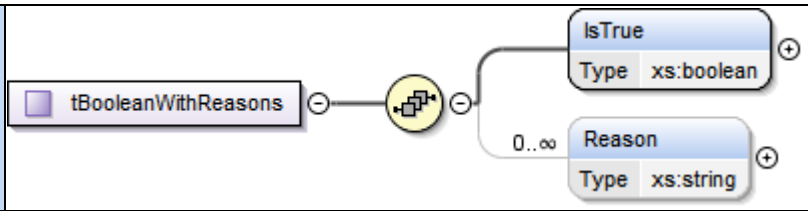
2.32 tDateWithReasons

Diagram	
Used by	Elements **tOrderStatus/OrderCancelled**, **tOrderStatus/OrderDeclined**
Model	**Date** , **Reason***

Source	`<xs:complexType name="tDateWithReasons">`
	`  <xs:sequence>`
	`    <xs:element name="Date" type="xs:date"/>`
	`    <xs:element name="Reason" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`      <xs:annotation>`

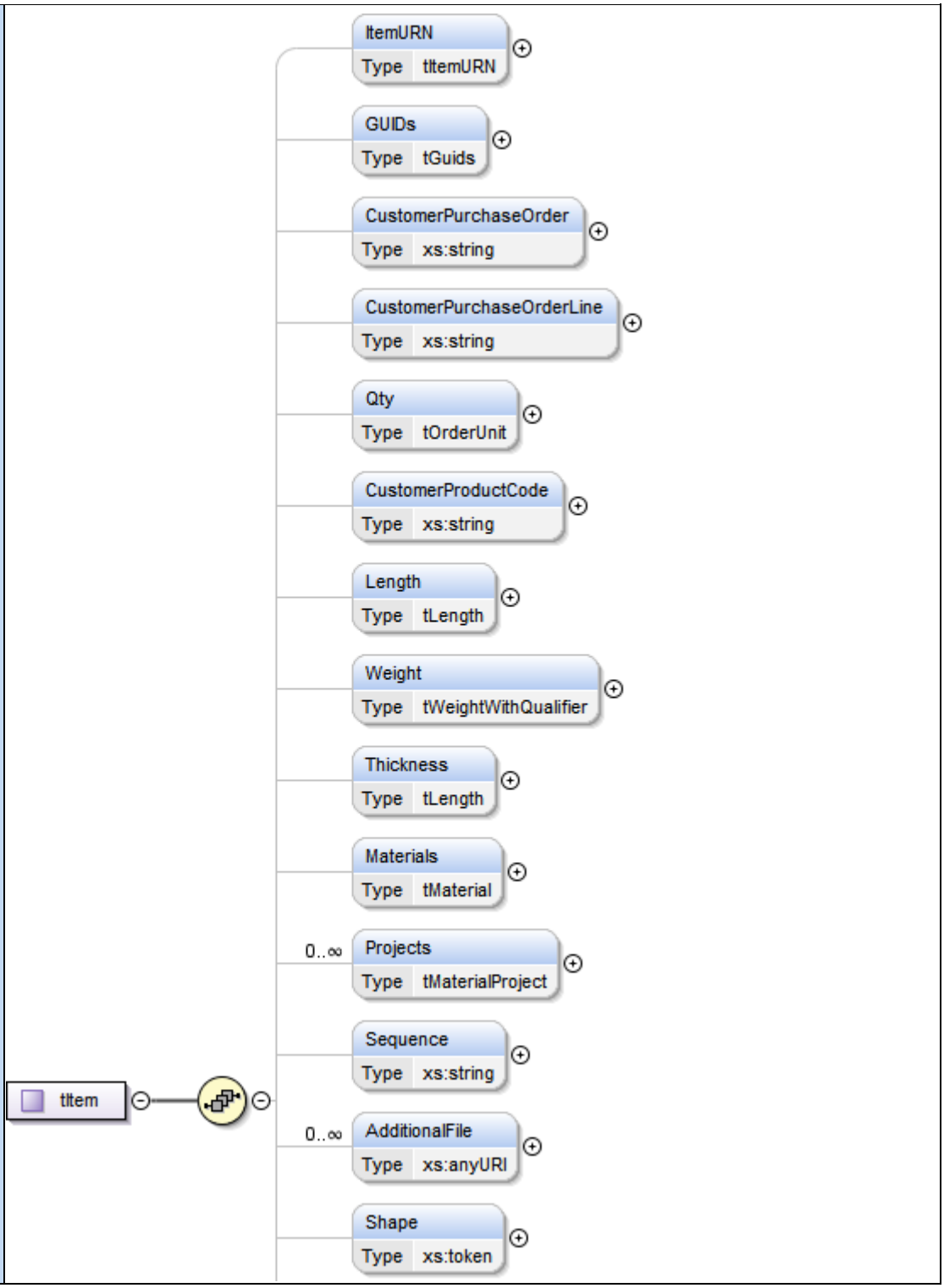
	<xs:documentation>This element contains reasons for either an order cancellation and declination, inability to place the order, or receipt refusal.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

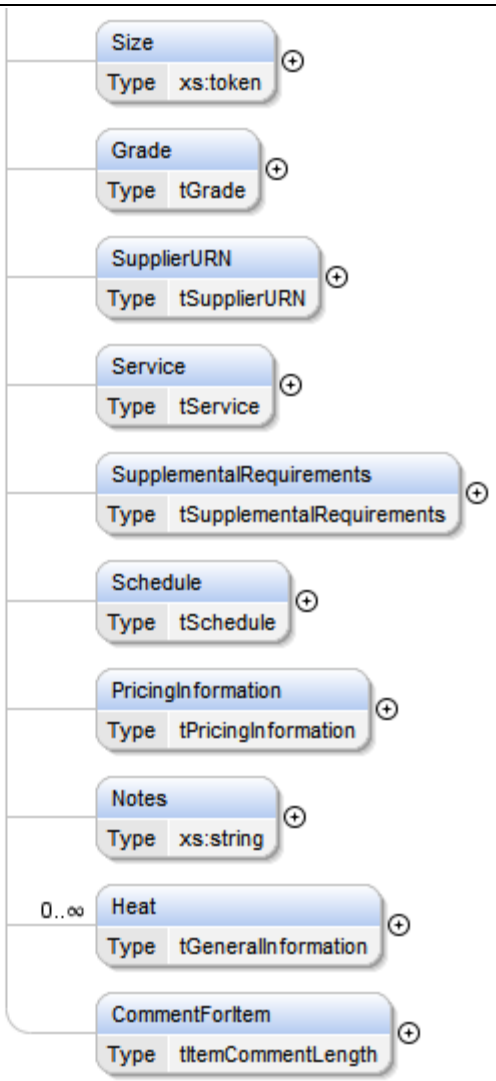
2.33 tBooleanWithReasons

Diagram	
Used by	Elements **tOrderStatus/ReceiptRefuse**, **tOrderStatus/UnableToPlace**
Model	**IsTrue** , **Reason***
Source	<xs:complexType name="tBooleanWithReasons"> <xs:sequence> <xs:element name="IsTrue" type="xs:boolean"/> <xs:element name="Reason" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.34 tItem

Diagram

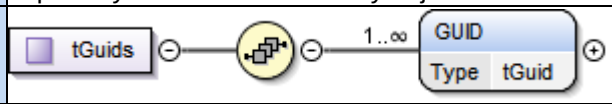


<table>
<tr><td></td><td> 
</td></tr>
<tr><td>Used by</td><td>Element tOrder/Item</td></tr>
<tr><td>Model</td><td>ItemURN{0,1} , GUIDs{0,1} , CustomerPurchaseOrder{0,1} , CustomerPurchaseOrderLine{0,1} , Qty{0,1} , CustomerProductCode{0,1} , Length{0,1} , Weight{0,1} , Thickness{0,1} , Materials{0,1} , Projects* , Sequence{0,1} , AdditionalFile* , Shape{0,1} , Size{0,1} , Grade{0,1} , SupplierURN{0,1} , Service{0,1} , SupplementalRequirements{0,1} , Schedule{0,1} , PricingInformation{0,1} , Notes{0,1} , Heat* , CommentForItem{0,1}</td></tr>
<tr><td>Source</td><td><pre>
<xs:complexType name="tItem">
  <xs:sequence>
    <!-- ASN -->
    <xs:element name="ItemURN" type="tItemURN" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element limits the uniform resource name of an item to between 10 and 40 digits.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="GUIDs" type="tGuids" minOccurs="0"/>
    <xs:element name="CustomerPurchaseOrder" type="xs:string" minOccurs="0"/>
</pre></td></tr>
</table>

```
    <xs:element name="CustomerPurchaseOrderLine" type="xs:string"
minOccurs="0"/>
    <xs:element name="Qty" type="tOrderUnit" minOccurs="0"/>
    <xs:element name="CustomerProductCode" type="xs:string"
minOccurs="0"/>
    <xs:element name="Length" type="tLength" minOccurs="0"/>
    <xs:element name="Weight" type="tWeightWithQualifier"
minOccurs="0"/>
    <xs:element name="Thickness" type="tLength" minOccurs="0"/>
    <!-- END_ASN -->
    <xs:element name="Materials" type="tMaterial" minOccurs="0"/>
    <xs:element name="Projects" type="tMaterialProject"
minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This element contains a Project ID and a
name using materials.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Sequence" type="xs:string" minOccurs="0"
maxOccurs="1">
      <xs:annotation>
        <xs:documentation>This element describes a Phase or a
Sequence.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AdditionalFile" type="xs:anyURI" minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This element describes the URI of an extra
file that provides item information to a service center in order to
perform additional services, such as cut or
drill.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Shape" type="xs:token" minOccurs="0"/>
    <xs:element name="Size" type="xs:token" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Size can be either free text description
or structured text according to the standard. Preferred
implementation is to use structured text, use free text description
only when standard is not predefined.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Grade" type="tGrade" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element allows users to choose grade
types from the predefined grade list.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SupplierURN" type="tSupplierURN"
minOccurs="0"/>
    <xs:element name="Service" type="tService" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The Service element illustrates
information for additional processing or treatment of items like
```

```
finishes (blast and paint) or pre-processing (CTL and
drilled).</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SupplementalRequirements"
type="tSupplementalRequirements" minOccurs="0">
      <xs:annotation>
        <xs:documentation>The element can contain supplemental
requirements that customers demand with regard to
quality/specification, domestic material, and recycled
content.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Schedule" type="tSchedule" minOccurs="0"/>
    <xs:element name="PricingInformation" type="tPricingInformation"
minOccurs="0"/>
    <xs:element name="Notes" type="xs:string" minOccurs="0"/>
    <!-- ASN -->
    <xs:element name="Heat" type="tGeneralInformation" minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The Heat element includes production
information like the date produced, heat ID, supplier comments, and
equivalent grades.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="CommentForItem" type="tItemCommentLength"
minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>This element mentions additional
information for an item. The maximum field length is 50
characters.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

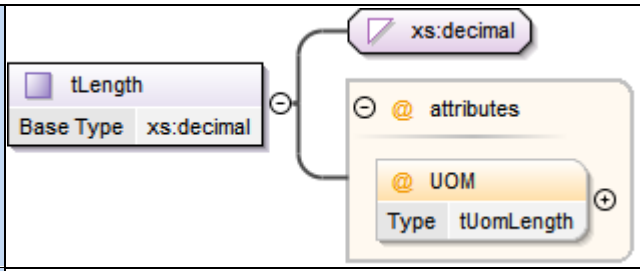
2.35 tGuids

Annotations	Item element may represent mulitple objects(pieces) in model based exchange, especially when there are many objects with the same itemURN.
Diagram	
Used by	Element **tItem/GUIDs**
Model	**GUID+**

Source	`<xs:complexType name="tGuids">`
	`  <xs:annotation>`
	`  <xs:documentation>Item element may represent mulitple objects(pieces) in model based exchange, especially when there are many objects with the same itemURN.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`

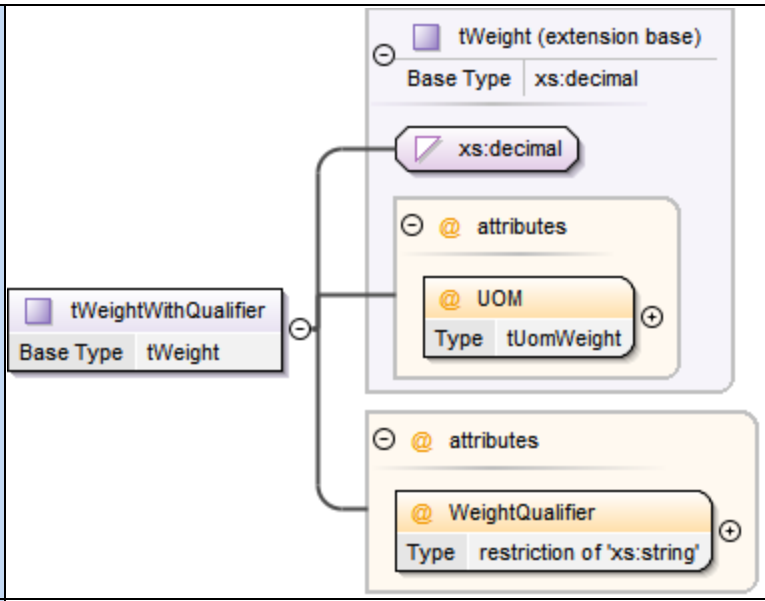
```
    <xs:element name="GUID" type="tGuid" minOccurs="1"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
```

2.36 tLength

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tCutTosize/X_Dimensions**, **tCutTosize/Y_Dimensions**, **tHole/HoleDiameter**, **tItem/Length**, **tItem/Thickness**, **tLengthAndAdditionalInfo/Length**, **tTestingConditions/SampleGageLength**
Attributes	QName Type Fixed Default Use Annotation UOM **tUomLength** optional

Source	`<xs:complexType name="tLength">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" type="tUomLength"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

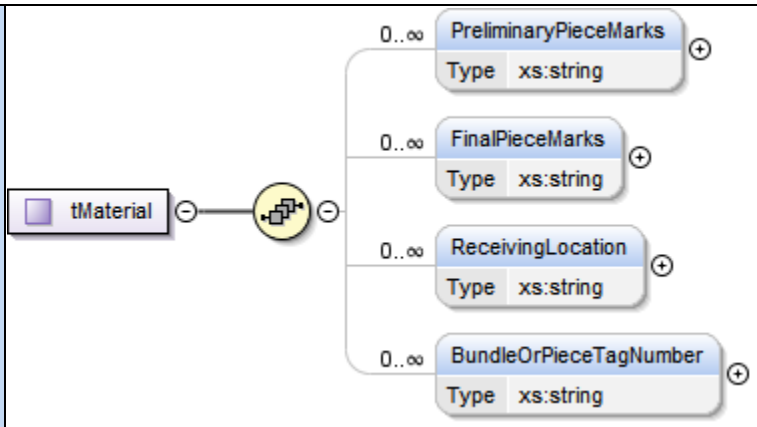
2.37 tWeightWithQualifier

Diagram	
Type	extension of **tWeight**

Type hierarchy	**xs:decimal** **tWeight** **tWeightWithQualifier**
Used by	Element **tItem/Weight**
Attributes	QName Type Fixed Default Use Annotation UOM **tUomWeight** required WeightQualifier restriction of **xs:string** required

Source	`<xs:complexType name="tWeightWithQualifier">`
	`  <xs:simpleContent>`
	`  <xs:extension base="tWeight">`
	`  <xs:attribute name="WeightQualifier" use="required">`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="Actual"/>`
	`  <xs:enumeration value="Theoretical"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`  </xs:attribute>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

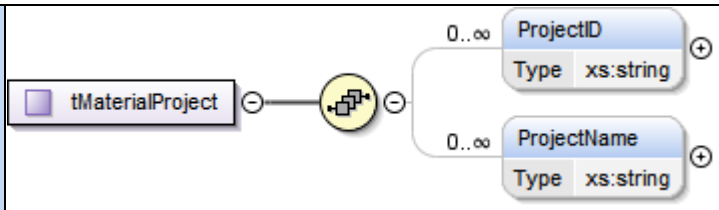
2.38 tMaterial

Diagram	
Used by	Element **tItem/Materials**
Model	**PreliminaryPieceMarks*** , **FinalPieceMarks*** , **ReceivingLocation*** , **BundleOrPieceTagNumber***

Source	`<xs:complexType name="tMaterial">`
	`  <xs:sequence>`
	`  <xs:element name="PreliminaryPieceMarks" type="xs:string" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>This element is a preliminary identification number that distinguishes a piece of the steel or other assembly material.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`

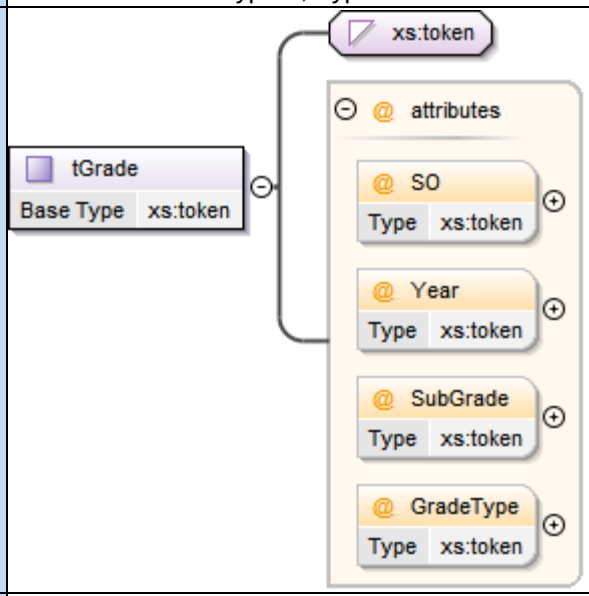
```
    <xs:element name="FinalPieceMarks" type="xs:string"
minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This element is a defined identification
number of steel materials. Final piece marks can follow a code that
describes an iron worker, an exact area, a level, and a location of
the piece of a steel.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ReceivingLocation" type="xs:string"
minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This element contains the specific
delivery location of the steel.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="BundleOrPieceTagNumber" type="xs:string"
minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>This element includes dimensions, steel
grades, surface conditions, bundle sizes, batch ids, coil numbers,
and bundle numbers.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.39 tMaterialProject

Diagram	
Used by	Element **tItem/Projects**
Model	**ProjectID*** , **ProjectName***
Source	<xs:complexType name="tMaterialProject"> <xs:sequence> <xs:element name="ProjectID" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The identification number for Project</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ProjectName" type="xs:string" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>A name of a project</xs:documentation> </xs:annotation> </xs:element> </xs:sequence>

	</xs:complexType>

2.40 tGrade

Annotations	tGrade can be either a free text field or further specified with attributes. In case of 'free text field', the value can be populated as 'ASTM A572/A572M, Grade 50, Type 1' and to be processed accordingly by importing software. When attributes are supplied, grade value should use the designation as specified in the corresponding standard. The previous example should use 'A572/A572M' for element value as apprears as 'designation' in the ASTM standard. SO attribute field indicates a standards organization, such as 'ASTM'. Year attribute field indicates the year of original adoption or the year of last revision in the case of revision. The year attribute field may have superscript epsilion indicates an editorial change, such as '13a'. A grade specification may have multiple grades specified in the standard as in 'A572/A572M', which should use SubGrade attribute to further indicates grade. i.e. Grade 50, Grade 60 and etc. A grade may have a type based on contents of elements, which may use GradeType attribute field. i.e. Type 1, Type 2 and etc.
Diagram	
Type	extension of **xs:token**
Used by	Element **tItem/Grade**

Attributes

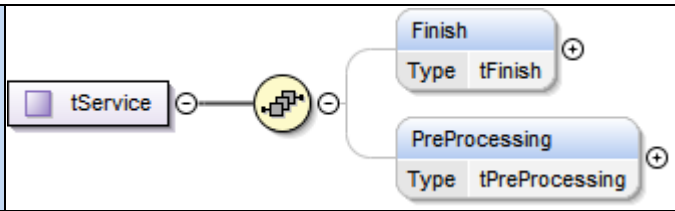
QName	Type	Fixed	Default	Use	Annotation
GradeType	**xs:token**			optional	
SO	**xs:token**			optional	Standard Organization
SubGrade	**xs:token**			optional	
Year	**xs:token**			optional	

Source

```
<xs:complexType name="tGrade">
  <xs:annotation>
    <xs:documentation>tGrade can be either a free text field or
further specified with attributes. In case of 'free text field', the
value can be populated as 'ASTM A572/A572M, Grade 50, Type 1' and to
```

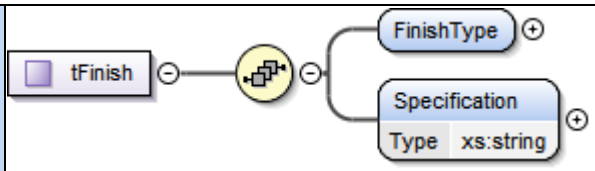
	be processed accordingly by importing software. When attributes are supplied, grade value should use the designation as specified in the corresponding standard. The previous example should use 'A572/A572M' for element value as apprears as 'designation' in the ASTM standard. SO attribute field indicates a standards organization, such as 'ASTM'. Year attribute field indicates the year of original adoption or the year of last revision in the case of revision. The year attribute field may have superscript epsilion indicates an editorial change, such as '13a'. A grade specification may have multiple grades specified in the standard as in 'A572/A572M', which should use SubGrade attribute to further indicates grade. i.e. Grade 50, Grade 60 and etc. A grade may have a type based on contents of elements, which may use GradeType attribute field. i.e. Type 1, Type 2 and etc.</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:token"> <xs:attribute name="SO" type="xs:token"> <xs:annotation> <xs:documentation>Standard Organization</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="Year" type="xs:token"/> <xs:attribute name="SubGrade" type="xs:token"/> <xs:attribute name="GradeType" type="xs:token"/> </xs:extension> </xs:simpleContent> </xs:complexType>

2.41 tService

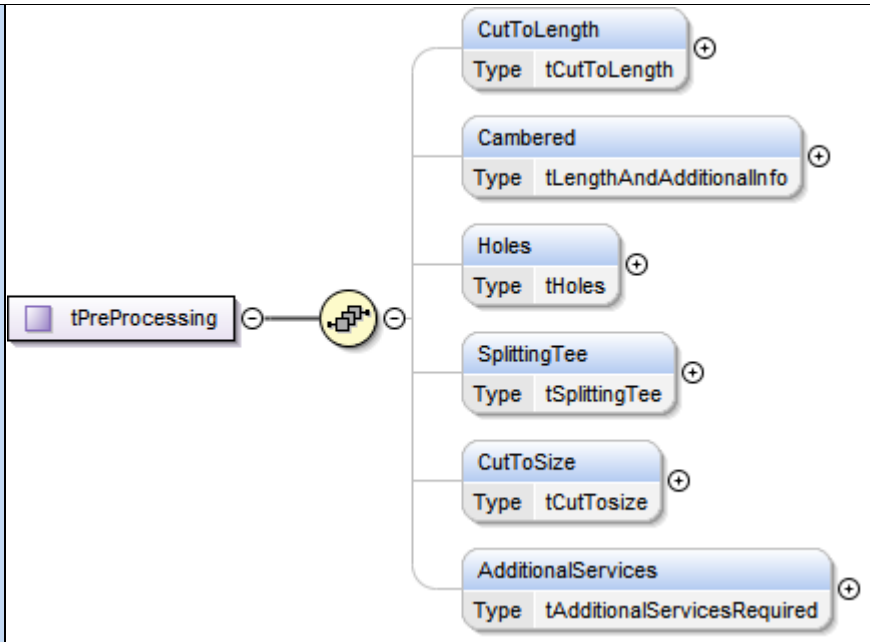
Diagram	
Used by	Element **tItem/Service**
Model	**Finish{0,1}** , **PreProcessing{0,1}**
Source	<xs:complexType name="tService"> <xs:sequence> <xs:element name="Finish" type="tFinish" minOccurs="0"> <xs:annotation> <xs:documentation>The material finish type could be one of followings: Blast, Paint, Galvanizing, PowderCoated, MixedCoating, or RustInhibitor.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="PreProcessing" type="tPreProcessing" minOccurs="0"> <xs:annotation>

```
        <xs:documentation>The material finish type could be either
Blast, Paint, Galvanizing, PowderCoated, MixedCoating, or
RustInhibitor.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.42 tFinish

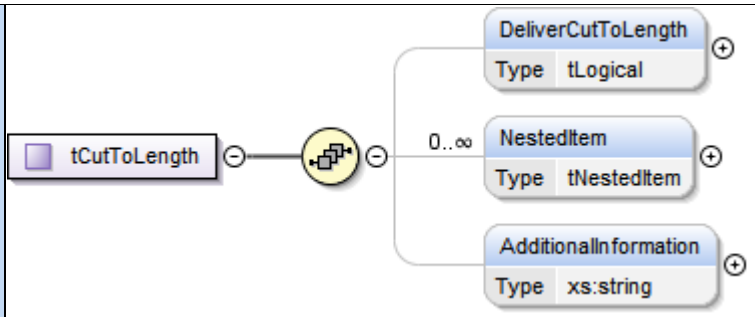
Diagram	
Used by	Element **tService/Finish**
Model	**FinishType , Specification**
Source	<xs:complexType name="tFinish"> <xs:sequence> <xs:element name="FinishType"> <xs:complexType> <xs:choice> <xs:element name="Blast" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="Paint" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="Galvanizing" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="PowderCoated" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="MixedCoating" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="RustInhibitor" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> </xs:choice> </xs:complexType> </xs:element> <xs:element name="Specification" type="xs:string" minOccurs="1"> <xs:annotation> <xs:documentation>This element presents additional comments on finish type specifications.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.43 tPreProcessing

Diagram	
Used by	Element **tService/PreProcessing**
Model	**CutToLength{0,1}** , **Cambered{0,1}** , **Holes{0,1}** , **SplittingTee{0,1}** , **CutToSize{0,1}** , **AdditionalServices{0,1}**

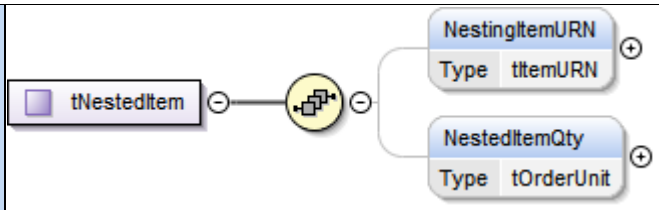
Source	`<xs:complexType name="tPreProcessing">`
	`  <xs:sequence>`
	`  <xs:element name="CutToLength" type="tCutToLength" minOccurs="0"/>`
	`  <xs:element name="Cambered" type="tLengthAndAdditionalInfo" minOccurs="0"/>`
	`  <xs:element name="Holes" type="tHoles" minOccurs="0"/>`
	`  <xs:element name="SplittingTee" type="tSplittingTee" minOccurs="0"/>`
	`  <xs:element name="CutToSize" type="tCutTosize" minOccurs="0"/>`
	`  <xs:element name="AdditionalServices" type="tAdditionalServicesRequired" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.44 tCutToLength

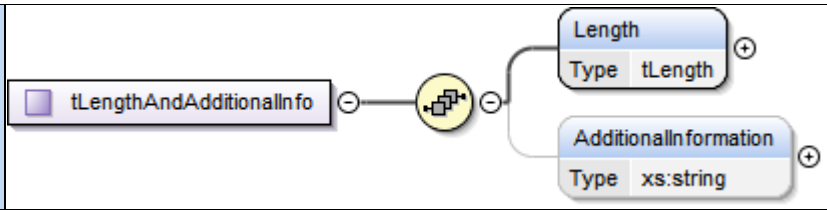
Diagram	
Used by	Element **tPreProcessing/CutToLength**

Model	**DeliverCutToLength{0,1} , NestedItem* , AdditionalInformation{0,1}**
Source	<xs:complexType name="tCutToLength"> <xs:sequence> <xs:element name="DeliverCutToLength" type="tLogical" minOccurs="0"/> <xs:element name="NestedItem" type="tNestedItem" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="AdditionalInformation" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

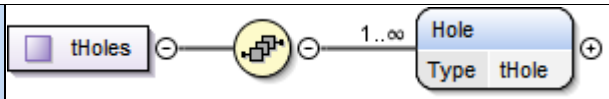
2.45 tNestedItem

Diagram	
Used by	Element **tCutToLength/NestedItem**
Model	**NestingItemURN{0,1} , NestedItemQty{0,1}**
Source	<xs:complexType name="tNestedItem"> <xs:sequence> <xs:element name="NestingItemURN" type="tItemURN" minOccurs="0"/> <xs:element name="NestedItemQty" type="tOrderUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.46 tLengthAndAdditionalInfo

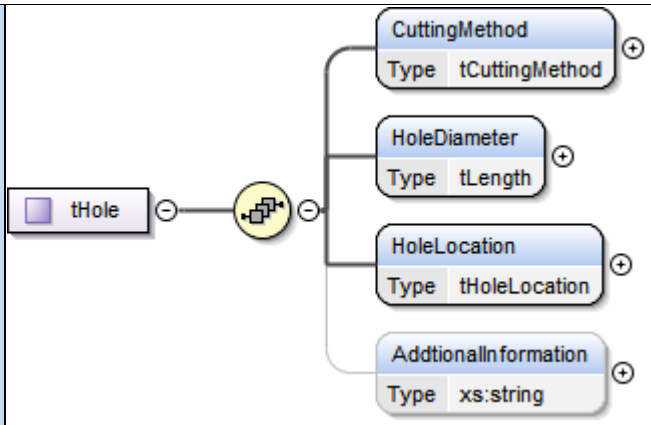
Diagram	
Used by	Element **tPreProcessing/Cambered**
Model	**Length , AdditionalInformation{0,1}**
Source	<xs:complexType name="tLengthAndAdditionalInfo"> <xs:sequence> <xs:element name="Length" type="tLength" minOccurs="1"/> <xs:element name="AdditionalInformation" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.47 tHoles

Diagram	
Used by	Element **tPreProcessing/Holes**
Model	**Hole+**

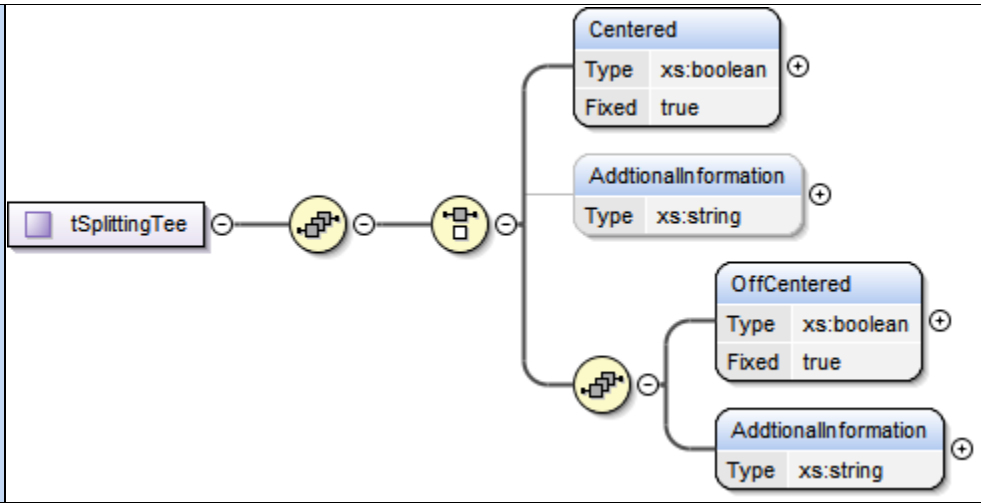
Source	`<xs:complexType name="tHoles">`
	`  <xs:sequence>`
	`  <xs:element name="Hole" type="tHole" minOccurs="1" maxOccurs="unbounded"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.48 tHole

Diagram	
Used by	Element **tHoles/Hole**
Model	**CuttingMethod , HoleDiameter , HoleLocation , AddtionalInformation{0,1}**

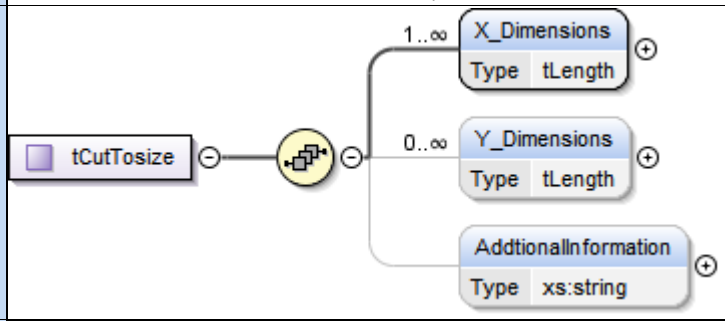
Source	`<xs:complexType name="tHole">`
	`  <xs:sequence>`
	`  <xs:element name="CuttingMethod" type="tCuttingMethod" minOccurs="1"/>`
	`  <xs:element name="HoleDiameter" type="tLength" minOccurs="1"/>`
	`  <xs:element name="HoleLocation" type="tHoleLocation" minOccurs="1"/>`
	`  <xs:element name="AddtionalInformation" type="xs:string" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.49 tSplittingTee

Diagram	
Used by	Element **tPreProcessing/SplittingTee**
Model	(**Centered** | **AddtionalInformation{0,1}** | (**OffCentered** , **AddtionalInformation**))

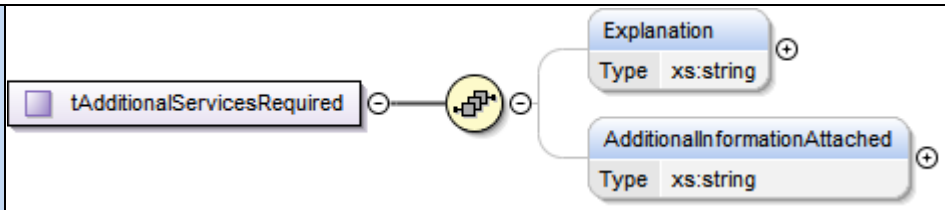
Source	`<xs:complexType name="tSplittingTee">`
	`  <xs:sequence>`
	`  <xs:choice>`
	`  <xs:element name="Centered" type="xs:boolean" fixed="true"/>`
	`  <xs:element name="AddtionalInformation" type="xs:string" minOccurs="0"/>`
	`  <xs:sequence>`
	`  <xs:element name="OffCentered" type="xs:boolean" fixed="true"/>`
	`  <xs:element name="AddtionalInformation" type="xs:string" minOccurs="1"/>`
	`  </xs:sequence>`
	`  </xs:choice>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.50 tCutTosize

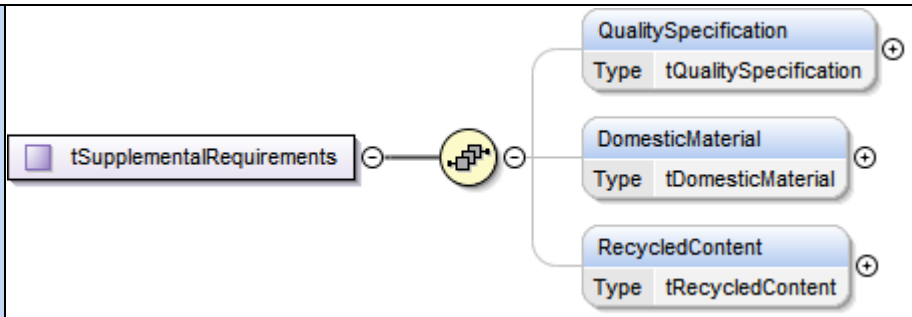
Annotations	This element shows the Cut To size, which has two mandatory attributes: Type and UOM.
Diagram	
Used by	Element **tPreProcessing/CutToSize**
Model	**X_Dimensions+** , **Y_Dimensions*** , **AddtionalInformation{0,1}**
Source	`<xs:complexType name="tCutTosize">` `  <xs:annotation>`

	<xs:documentation>This element shows the Cut To size, which has two mandatory attributes: Type and UOM.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="X_Dimensions" type="tLength" minOccurs="1" maxOccurs="unbounded"/> <xs:element name="Y_Dimensions" type="tLength" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="AddtionalInformation" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.51 tAdditionalServicesRequired

Diagram	
Used by	Element **tPreProcessing/AdditionalServices**
Model	**Explanation{0,1}** , **AdditionalInformationAttached{0,1}**
Source	<xs:complexType name="tAdditionalServicesRequired"> <xs:sequence> <xs:element name="Explanation" type="xs:string" minOccurs="0"/> <xs:element name="AdditionalInformationAttached" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

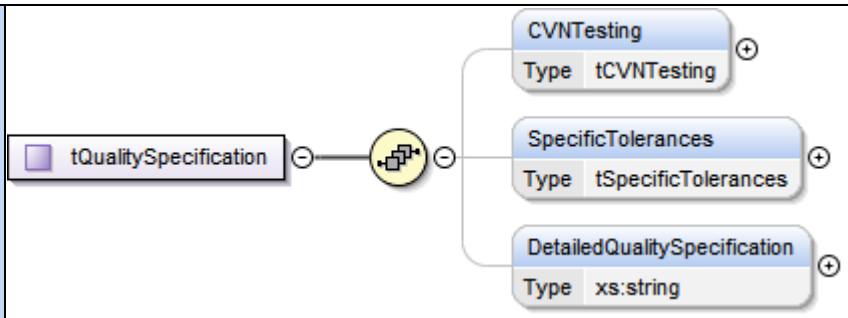
2.52 tSupplementalRequirements

Diagram	
Used by	Element **tItem/SupplementalRequirements**
Model	**QualitySpecification{0,1}** , **DomesticMaterial{0,1}** , **RecycledContent{0,1}**
Source	<xs:complexType name="tSupplementalRequirements"> <xs:sequence> <xs:element name="QualitySpecification" type="tQualitySpecification" minOccurs="0"> <xs:annotation>

```
        <xs:documentation>This element represents detailed
specifications for the quality of steel, such as Charpy V-Notch
tests, and tolerances.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="DomesticMaterial" type="tDomesticMaterial"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element states whether or not the
steel is domestic (Made in America).</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="RecycledContent" type="tRecycledContent"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This field describes the percentage of
recycled materials in the steel, in terms of preconsumer,
postconsumer, and revert contents.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.53 tQualitySpecification

Diagram



Used by Element **tSupplementalRequirements/QualitySpecification**

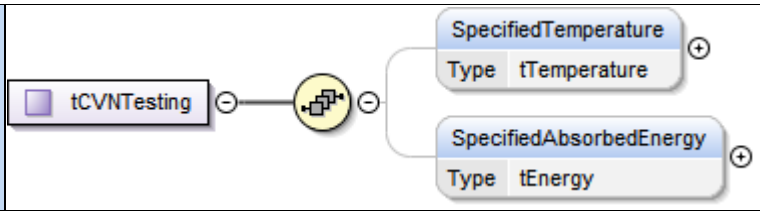
Model **CVNTesting{0,1} , SpecificTolerances{0,1} , DetailedQualitySpecification{0,1}**

Source

```
<xs:complexType name="tQualitySpecification">
  <xs:sequence>
    <xs:element name="CVNTesting" type="tCVNTesting" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element contains Charpy test
result.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SpecificTolerances" type="tSpecificTolerances"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element contains boolean values for
tolerances, such as Military, ABSCertification, or
Chemistries_1035_1045.</xs:documentation>
      </xs:annotation>
    </xs:element>
```

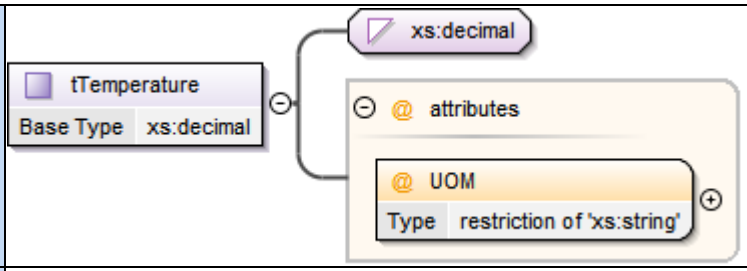
```
    <xs:element name="DetailedQualitySpecification" type="xs:string"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element contains additional
information to represent the quailty of
specification.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.54 tCVNTesting

Diagram	
Used by	Element **tQualitySpecification/CVNTesting**
Model	**SpecifiedTemperature{0,1}** , **SpecifiedAbsorbedEnergy{0,1}**

Source	`<xs:complexType name="tCVNTesting">`
	`  <xs:sequence>`
	`  <xs:element name="SpecifiedTemperature" type="tTemperature" minOccurs="0"/>`
	`  <xs:element name="SpecifiedAbsorbedEnergy" type="tEnergy" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

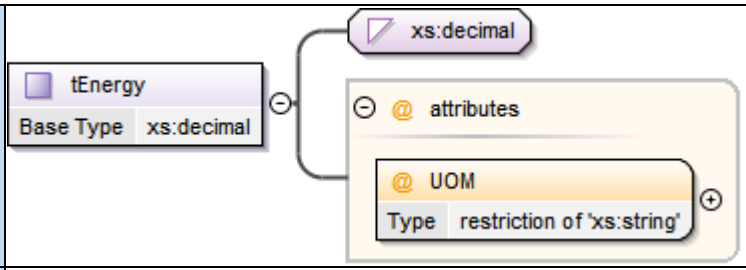
2.55 tTemperature

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tCVNTesting/SpecifiedTemperature**, **tSpecimenConditions/TestTemperature**
Attributes	QName Type Fixed Default Use Annotation UOM restriction of **xs:string** required

Source	`<xs:complexType name="tTemperature">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" use="required">`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`

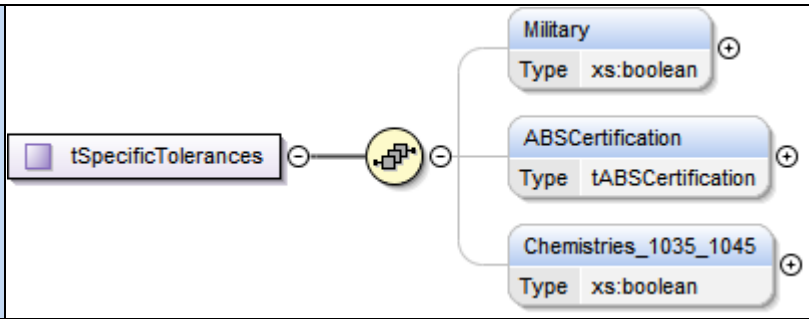
```
            <xs:enumeration value="F"/>
            <xs:enumeration value="C"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

2.56 tEnergy

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tCVNTesting/SpecifiedAbsorbedEnergy**, **tCharpyTestResult/Energy**, **tCharpyTestResult/UncorrectedEnergy**
Attributes	QName Type Fixed Default Use Annotation UOM restriction of **xs:string** required

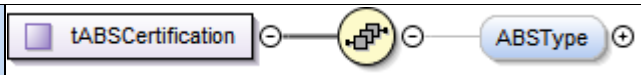
Source	`<xs:complexType name="tEnergy">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" use="required">`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="J"/>`
	`  <xs:enumeration value="FT-LBS"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`  </xs:attribute>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

2.57 tSpecificTolerances

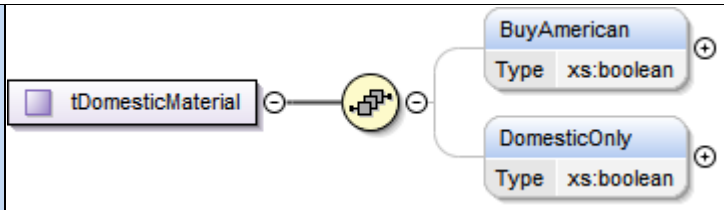
Diagram	
Used by	Element **tQualitySpecification/SpecificTolerances**

Model	**Military{0,1} , ABSCertification{0,1} , Chemistries_1035_1045{0,1}**
Source	<xs:complexType name="tSpecificTolerances"> <xs:sequence> <xs:element name="Military" type="xs:boolean" minOccurs="0"/> <xs:element name="ABSCertification" type="tABSCertification" minOccurs="0"/> <xs:element name="Chemistries_1035_1045" type="xs:boolean" minOccurs="0"/> </xs:sequence> </xs:complexType>

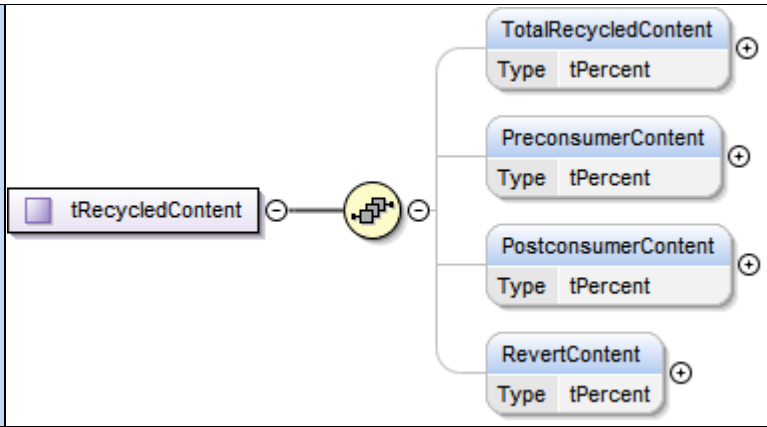
2.58 tABSCertification

Diagram	
Used by	Element **tSpecificTolerances/ABSCertification**
Model	**ABSType{0,1}**
Source	<xs:complexType name="tABSCertification"> <xs:sequence> <xs:element name="ABSType" minOccurs="0"> <xs:complexType> <xs:sequence> <xs:element name="AH36" type="xs:boolean"/> <xs:element name="AH32" type="xs:boolean"/> <xs:element name="A" type="xs:boolean"/> <xs:element name="CharpyImpactRequirements" type="xs:boolean"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType>

2.59 tDomesticMaterial

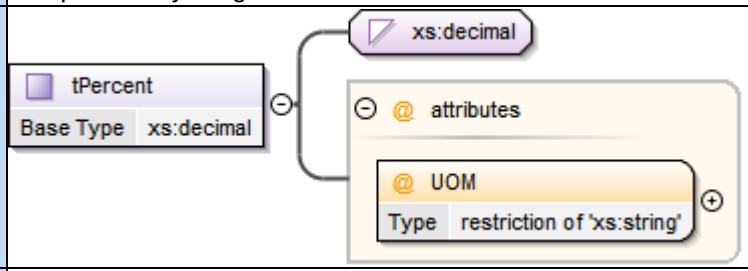
Diagram	
Used by	Element **tSupplementalRequirements/DomesticMaterial**
Model	**BuyAmerican{0,1} , DomesticOnly{0,1}**
Source	<xs:complexType name="tDomesticMaterial"> <xs:sequence> <xs:element name="BuyAmerican" type="xs:boolean" minOccurs="0"/> <xs:element name="DomesticOnly" type="xs:boolean" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.60 tRecycledContent

Diagram	
Used by	Element **tSupplementalRequirements/RecycledContent**
Model	**TotalRecycledContent{0,1}** , **PreconsumerContent{0,1}** , **PostconsumerContent{0,1}** , **RevertContent{0,1}**

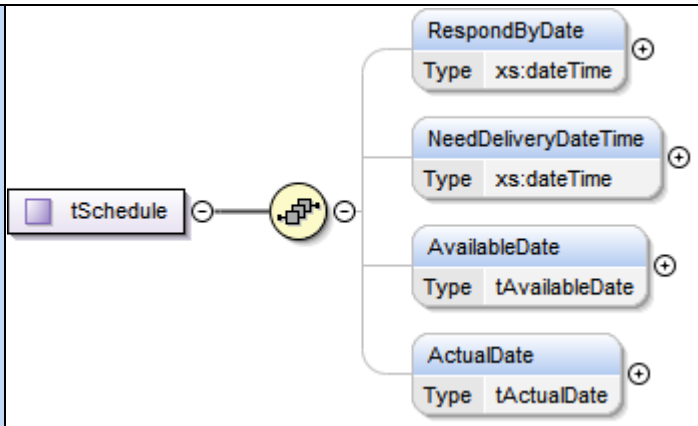
Source	`<xs:complexType name="tRecycledContent">`
	`  <xs:sequence>`
	`  <xs:element name="TotalRecycledContent" type="tPercent" minOccurs="0"/>`
	`  <xs:element name="PreconsumerContent" type="tPercent" minOccurs="0"/>`
	`  <xs:element name="PostconsumerContent" type="tPercent" minOccurs="0"/>`
	`  <xs:element name="RevertContent" type="tPercent" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.61 tPercent

Annotations	This element describes the percent, which can be represented by one of two types: percent and percent by weight.					
Diagram						
Type	extension of **xs:decimal**					
Used by	Elements	**tCharpyTestResult/Shear**, **tElement/MeasuredValue**, **tRecycledContent/PostconsumerContent**, **tRecycledContent/PreconsumerContent**, **tRecycledContent/RevertContent**, **tRecycledContent/TotalRecycledContent**, **tTensileTestResult/Elongation**, **tTensileTestResult/ReductionOfArea**				
Attributes	QName	Type	Fixed	Default	Use	Annotation
	UOM	restriction of **xs:string**			required	
Source	`<xs:complexType name="tPercent">`					

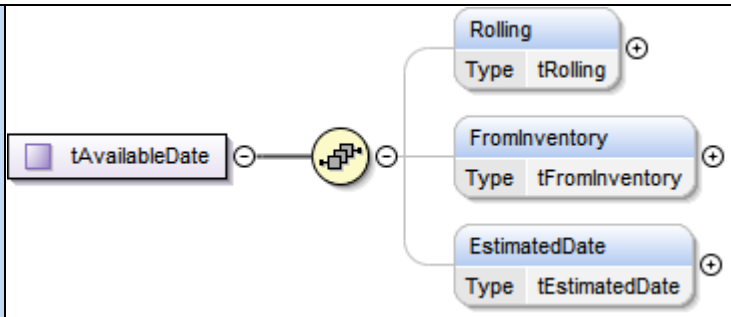
```
  <xs:annotation>
    <xs:documentation>This element describes the percent, which can
be represented by one of two types: percent and percent by
weight.</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="xs:decimal">
      <xs:attribute name="UOM" use="required">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="Percent"/>
            <xs:enumeration value="Percent by Weight"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

2.62 tSchedule

Diagram	
Used by	Element **tItem/Schedule**
Model	**RespondByDate{0,1}** , **NeedDeliveryDateTime{0,1}** , **AvailableDate{0,1}** , **ActualDate{0,1}**
Source	<xs:complexType name="tSchedule"> <xs:sequence> <xs:element name="RespondByDate" type="xs:dateTime" minOccurs="0"> <xs:annotation> <xs:documentation>This element shows the requested due date and time for responding for RFQ</xs:documentation> </xs:annotation> </xs:element> <xs:element name="NeedDeliveryDateTime" type="xs:dateTime" minOccurs="0"> <xs:annotation> <xs:documentation>This element shows the requested due date and time.</xs:documentation> </xs:annotation> </xs:element>

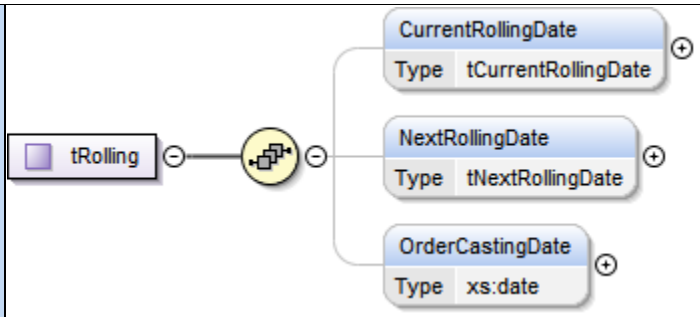
```
    <xs:element name="AvailableDate" type="tAvailableDate"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>Based on order specifications and factory
processes, this element shows the possible delivery date and time of
steel.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ActualDate" type="tActualDate" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element represents the actual date
and time when the steel is delivered.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.63 tAvailableDate

Diagram	
Used by	Element **tSchedule/AvailableDate**
Model	**Rolling{0,1}** , **FromInventory{0,1}** , **EstimatedDate{0,1}**
Source	

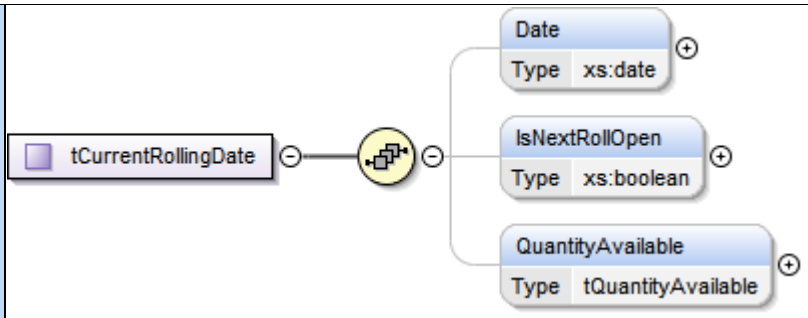
```
<xs:complexType name="tAvailableDate">
  <xs:sequence>
    <xs:element name="Rolling" type="tRolling" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element shows the available dates for
the rolling schedule, which includes the current, next, and order
casting dates.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="FromInventory" type="tFromInventory"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element contains the date when
materials will be available from inventory.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="EstimatedDate" type="tEstimatedDate"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

2.64 tRolling

Diagram	
Used by	Element **tAvailableDate/Rolling**
Model	**CurrentRollingDate{0,1}** , **NextRollingDate{0,1}** , **OrderCastingDate{0,1}**

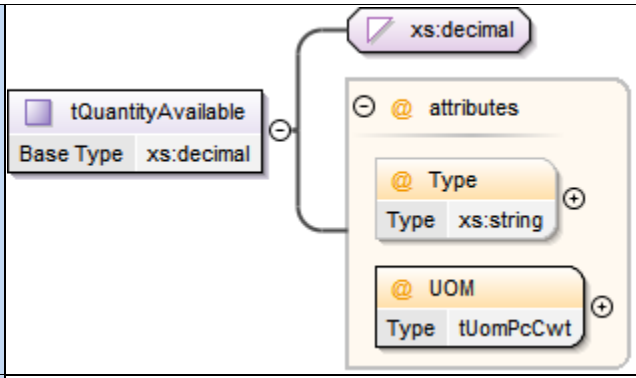
Source	`<xs:complexType name="tRolling">`
	`  <xs:sequence>`
	`  <xs:element name="CurrentRollingDate" type="tCurrentRollingDate" minOccurs="0"/>`
	`  <xs:element name="NextRollingDate" type="tNextRollingDate" minOccurs="0"/>`
	`  <xs:element name="OrderCastingDate" type="xs:date" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.65 tCurrentRollingDate

Diagram	
Used by	Element **tRolling/CurrentRollingDate**
Model	**Date{0,1}** , **IsNextRollOpen{0,1}** , **QuantityAvailable{0,1}**

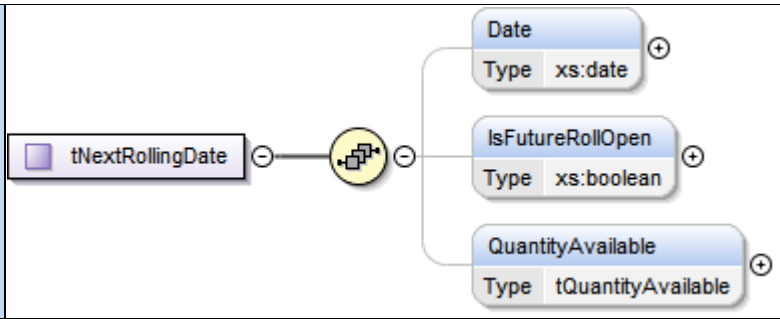
Source	`<xs:complexType name="tCurrentRollingDate">`
	`  <xs:sequence>`
	`  <xs:element name="Date" type="xs:date" minOccurs="0"/>`
	`  <xs:element name="IsNextRollOpen" type="xs:boolean" minOccurs="0"/>`
	`  <xs:element name="QuantityAvailable" type="tQuantityAvailable" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.66 tQuantityAvailable

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tCurrentRollingDate/QuantityAvailable**, **tNextRollingDate/QuantityAvailable**, **tPreprocessingPriceType/Quantity**
Attributes	QName Type Fixed Default Use Annotation Type **xs:string** optional UOM **tUomPcCwt** required

Source	`<xs:complexType name="tQuantityAvailable">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="Type" type="xs:string"/>`
	`  <xs:attribute name="UOM" type="tUomPcCwt" use="required"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

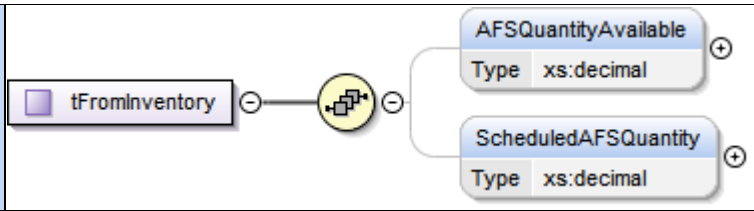
2.67 tNextRollingDate

Diagram	
Used by	Element **tRolling/NextRollingDate**
Model	**Date{0,1}** , **IsFutureRollOpen{0,1}** , **QuantityAvailable{0,1}**

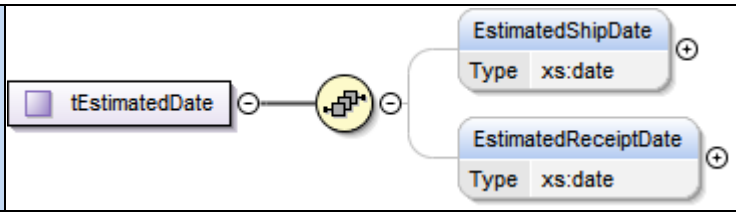
Source	`<xs:complexType name="tNextRollingDate">`
	`  <xs:sequence>`
	`  <xs:element name="Date" type="xs:date" minOccurs="0"/>`
	`  <xs:element name="IsFutureRollOpen" type="xs:boolean" minOccurs="0"/>`
	`  <xs:element name="QuantityAvailable" type="tQuantityAvailable" minOccurs="0"/>`
	`  </xs:sequence>`

	</xs:complexType>

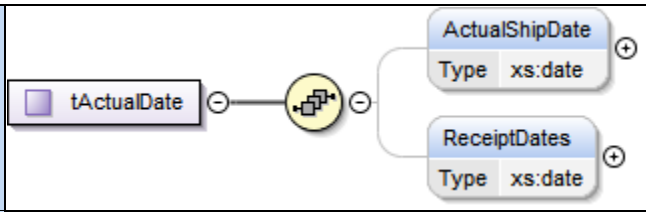
2.68 tFromInventory

Diagram	
Used by	Element **tAvailableDate/FromInventory**
Model	**AFSQuantityAvailable{0,1}** , **ScheduledAFSQuantity{0,1}**
Source	<xs:complexType name="tFromInventory"> <xs:sequence> <xs:element name="AFSQuantityAvailable" type="xs:decimal" minOccurs="0"/> <xs:element name="ScheduledAFSQuantity" type="xs:decimal" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.69 tEstimatedDate

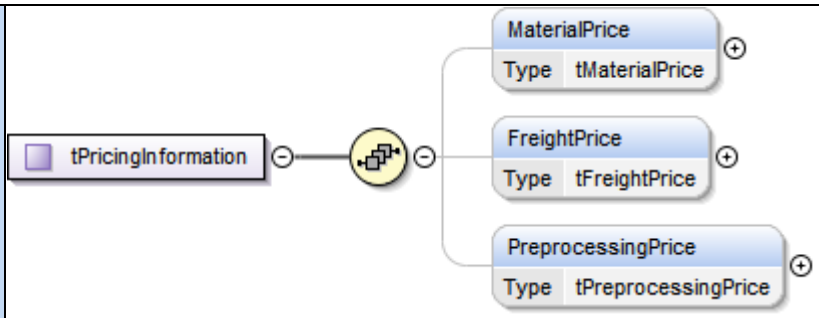
Diagram	
Used by	Element **tAvailableDate/EstimatedDate**
Model	**EstimatedShipDate{0,1}** , **EstimatedReceiptDate{0,1}**
Source	<xs:complexType name="tEstimatedDate"> <xs:sequence> <xs:element name="EstimatedShipDate" type="xs:date" minOccurs="0"/> <xs:element name="EstimatedReceiptDate" type="xs:date" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.70 tActualDate

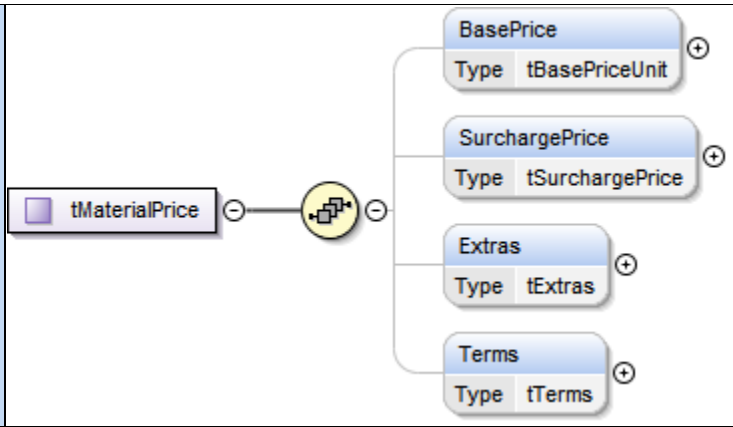
Diagram	
Used by	Element **tSchedule/ActualDate**

Model	**ActualShipDate{0,1} , ReceiptDates{0,1}**
Source	<xs:complexType name="tActualDate"> <xs:sequence> <xs:element name="ActualShipDate" type="xs:date" minOccurs="0"/> <xs:element name="ReceiptDates" type="xs:date" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.71 tPricingInformation

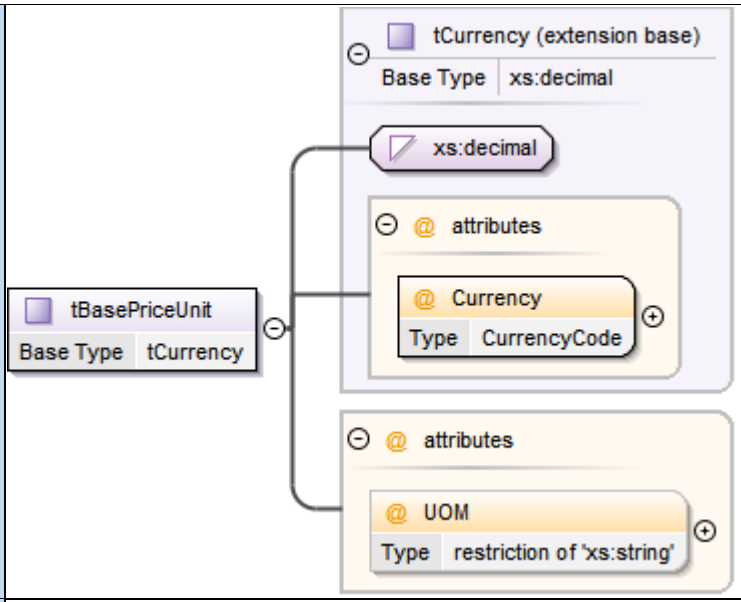
Diagram	
Used by	Element **tItem/PricingInformation**
Model	**MaterialPrice{0,1} , FreightPrice{0,1} , PreprocessingPrice{0,1}**
Source	<xs:complexType name="tPricingInformation"> <xs:sequence> <xs:element name="MaterialPrice" type="tMaterialPrice" minOccurs="0"> <xs:annotation> <xs:documentation>This element lists the detailed prices for materials including base price per unit, surcharge, and extra.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FreightPrice" type="tFreightPrice" minOccurs="0"> <xs:annotation> <xs:documentation>This element lists the fees regarding base freight price, surcharge, and supplementary charge. It also includes FOB point and freight method.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="PreprocessingPrice" type="tPreprocessingPrice" minOccurs="0"> <xs:annotation> <xs:documentation>Diverse types of supplemental prices can be contained, such as preprocessing, packaging, CTL, SPC, finishes and tarping.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.72 tMaterialPrice

Diagram	
Used by	Element **tPricingInformation/MaterialPrice**
Model	**BasePrice{0,1}** , **SurchargePrice{0,1}** , **Extras{0,1}** , **Terms{0,1}**

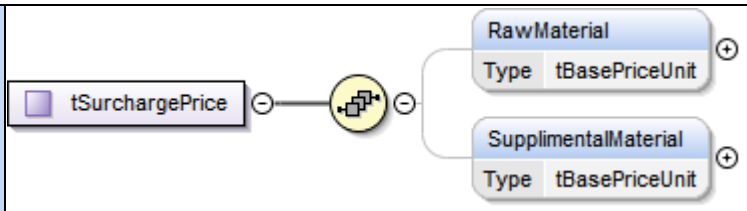
Source	`<xs:complexType name="tMaterialPrice">`
	`  <xs:sequence>`
	`  <xs:element name="BasePrice" type="tBasePriceUnit" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>Base price can be represented by currency and a different UOM, such as T, LB, KG, MT, and CWN.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="SurchargePrice" type="tSurchargePrice" minOccurs="0"/>`
	`  <xs:element name="Extras" type="tExtras" minOccurs="0"/>`
	`  <xs:element name="Terms" type="tTerms" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.73 tBasePriceUnit

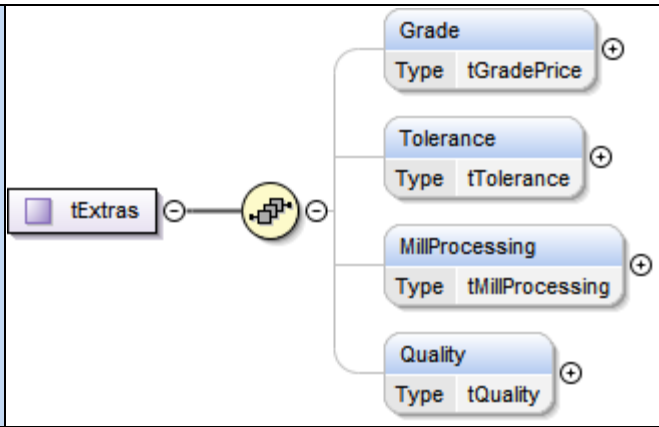
<table>
<tr><td>Diagram</td><td> 
</td></tr>
<tr><td>Type</td><td>extension of tCurrency</td></tr>
<tr><td>Type hierarchy</td><td>xs:decimal
tCurrency
tBasePriceUnit</td></tr>
<tr><td>Used by</td><td>Elements tGradePrice/CostValue, tMaterialPrice/BasePrice, tMillProcessing/Cutting, tMillProcessing/ExactPieceCount, tPreprocessingPrice/BrokenBundles, tPreprocessingPrice/Finishes, tPreprocessingPrice/SPC, tPreprocessingPrice/Tarping, tQuality/ABS, tQuality/CVN, tQuality/Military, tQuality/Nuclear, tSurchargePrice/RawMaterial, tSurchargePrice/SupplimentalMaterial, tTolerance/Column</td></tr>
<tr><td>Attributes</td><td>QName Type Fixed Default Use Annotation
Currency CurrencyCode required
UOM restriction of xs:string optional</td></tr>
<tr><td>Source</td><td><pre>
<xs:complexType name="tBasePriceUnit">
  <xs:simpleContent>
    <xs:extension base="tCurrency">
      <xs:attribute name="UOM">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="T"/>
            <xs:enumeration value="LB"/>
            <xs:enumeration value="KG"/>
            <xs:enumeration value="MT"/>
            <xs:enumeration value="CWT"/>
            <xs:enumeration value="EA"/>
            <xs:enumeration value="FT"/>
            <xs:enumeration value="M"/>
            <xs:enumeration value="SQFT"/>
            <xs:enumeration value="SQM"/>
          </xs:restriction>
</pre></td></tr>
</table>

	</xs:simpleType> </xs:attribute> </xs:extension> </xs:simpleContent> </xs:complexType>

2.74 tSurchargePrice

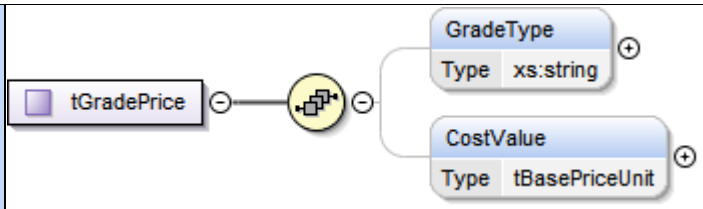
Diagram	
Used by	Element **tMaterialPrice/SurchargePrice**
Model	**RawMaterial{0,1}** , **SupplimentalMaterial{0,1}**
Source	<xs:complexType name="tSurchargePrice"> <xs:sequence> <xs:element name="RawMaterial" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="SupplimentalMaterial" type="tBasePriceUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.75 tExtras

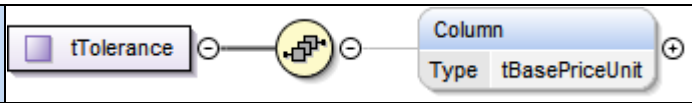
Diagram	
Used by	Element **tMaterialPrice/Extras**
Model	**Grade{0,1}** , **Tolerance{0,1}** , **MillProcessing{0,1}** , **Quality{0,1}**
Source	<xs:complexType name="tExtras"> <xs:sequence> <xs:element name="Grade" type="tGradePrice" minOccurs="0"> <xs:annotation> <xs:documentation>This element shows price information for a type of a grade.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Tolerance" type="tTolerance" minOccurs="0"/>

	<xs:element name="MillProcessing" type="tMillProcessing" minOccurs="0"> <xs:annotation> <xs:documentation>This element shows price information for a type of a grade.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Quality" type="tQuality" minOccurs="0"/> </xs:sequence> </xs:complexType>

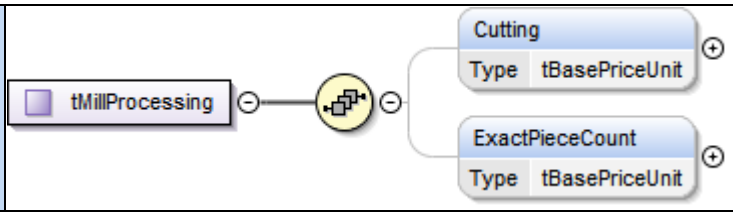
2.76 tGradePrice

Diagram	
Used by	Element **tExtras/Grade**
Model	**GradeType{0,1}** , **CostValue{0,1}**
Source	<xs:complexType name="tGradePrice"> <xs:sequence> <xs:element name="GradeType" type="xs:string" minOccurs="0"/> <xs:element name="CostValue" type="tBasePriceUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.77 tTolerance

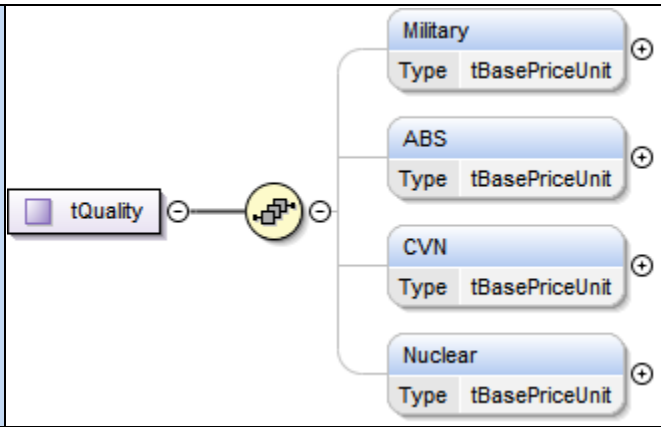
Diagram	
Used by	Element **tExtras/Tolerance**
Model	**Column{0,1}**
Source	<xs:complexType name="tTolerance"> <xs:sequence> <xs:element name="Column" type="tBasePriceUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.78 tMillProcessing

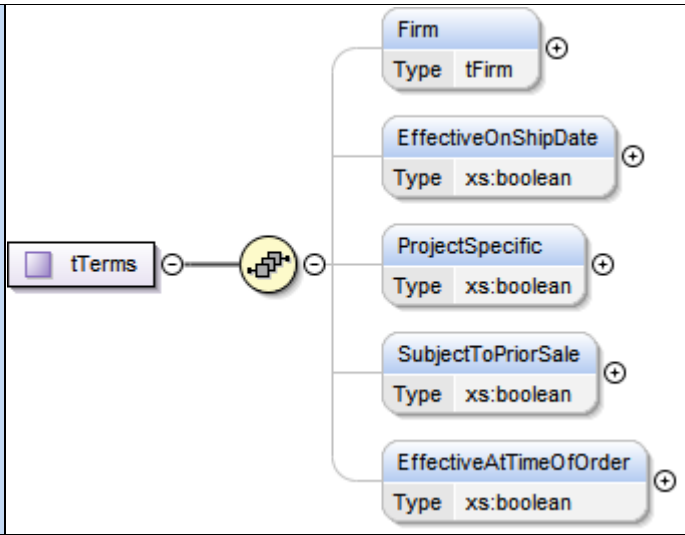
Diagram	

Used by	Element **tExtras/MillProcessing**
Model	**Cutting{0,1}** , **ExactPieceCount{0,1}**
Source	<xs:complexType name="tMillProcessing"> <xs:sequence> <xs:element name="Cutting" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="ExactPieceCount" type="tBasePriceUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.79 tQuality

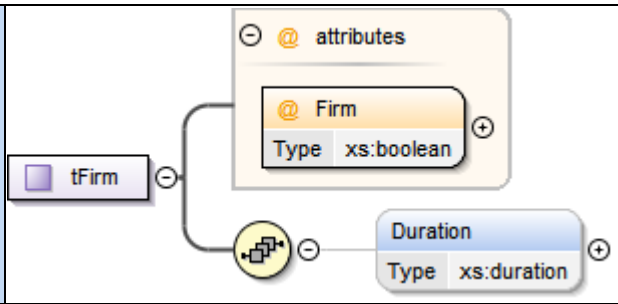
Diagram	
Used by	Element **tExtras/Quality**
Model	**Military{0,1}** , **ABS{0,1}** , **CVN{0,1}** , **Nuclear{0,1}**
Source	<xs:complexType name="tQuality"> <xs:sequence> <xs:element name="Military" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="ABS" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="CVN" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="Nuclear" type="tBasePriceUnit" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.80 tTerms

Diagram	
Used by	Element **tMaterialPrice/Terms**
Model	**Firm{0,1}** , **EffectiveOnShipDate{0,1}** , **ProjectSpecific{0,1}** , **SubjectToPriorSale{0,1}** , **EffectiveAtTimeOfOrder{0,1}**

Source	`<xs:complexType name="tTerms">`
	`  <xs:sequence>`
	`  <xs:element name="Firm" type="tFirm" minOccurs="0"/>`
	`  <xs:element name="EffectiveOnShipDate" type="xs:boolean" minOccurs="0"/>`
	`  <xs:element name="ProjectSpecific" type="xs:boolean" minOccurs="0"/>`
	`  <xs:element name="SubjectToPriorSale" type="xs:boolean" minOccurs="0"/>`
	`  <xs:element name="EffectiveAtTimeOfOrder" type="xs:boolean" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

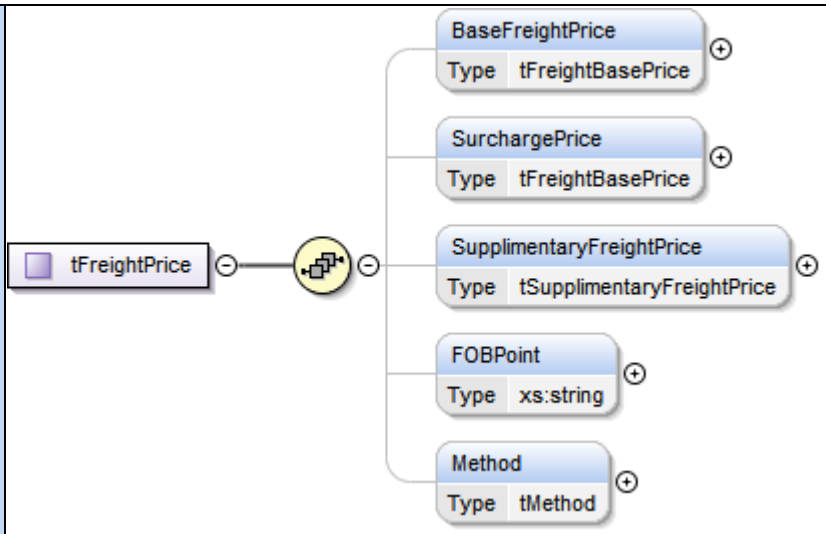
2.81 tFirm

Diagram	
Used by	Element **tTerms/Firm**
Model	**Duration{0,1}**
Attributes	QName: Firm; Type: **xs:boolean**; Fixed: ; Default: ; Use: required; Annotation:
Source	`<xs:complexType name="tFirm">`

```
  <xs:sequence>
    <xs:element name="Duration" type="xs:duration" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="Firm" type="xs:boolean" use="required"/>
</xs:complexType>
```

2.82 tFreightPrice

Diagram



Used by: Element **tPricingInformation/FreightPrice**

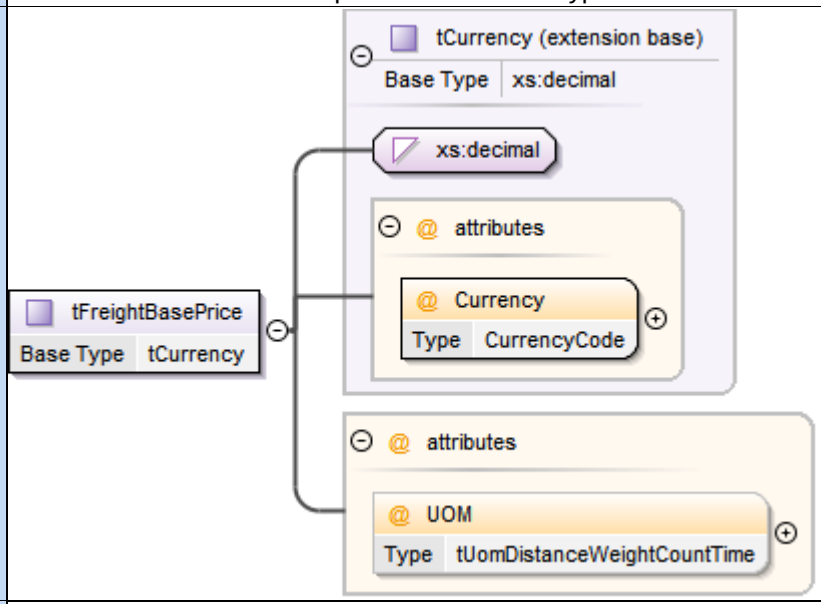
Model: **BaseFreightPrice{0,1}** , **SurchargePrice{0,1}** , **SupplimentaryFreightPrice{0,1}** , **FOBPoint{0,1}** , **Method{0,1}**

Source

```
<xs:complexType name="tFreightPrice">
  <xs:sequence>
    <xs:element name="BaseFreightPrice" type="tFreightBasePrice"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element presents the price of a type
of freight, such as a load, a mile, a weight, or an
hour.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SurchargePrice" type="tFreightBasePrice"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element shows the fuel price
depending on the type.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SupplimentaryFreightPrice"
type="tSupplimentaryFreightPrice" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element presents the tarping and
container price.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="FOBPoint" type="xs:string" minOccurs="0">
      <xs:annotation>
```

```
        <xs:documentation>This element shows the Free On Board (FOB)
point.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Method" type="tMethod" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element lists types of shipping, such
as a truck, rail, barge, or transload.</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

2.83 tFreightBasePrice

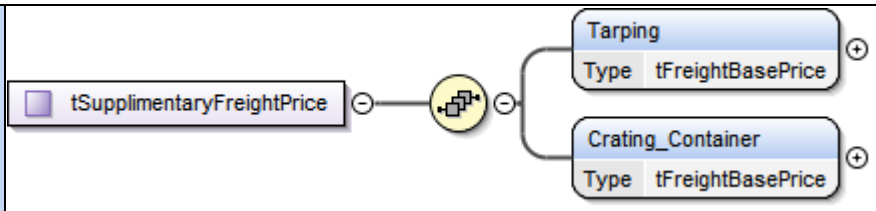
Annotations	This element describes the price based on the types of UOM and currency.
Diagram	
Type	extension of **tCurrency**
Type hierarchy	**xs:decimal** **tCurrency** **tFreightBasePrice**
Used by	Elements **tFreightPrice/BaseFreightPrice**, **tFreightPrice/SurchargePrice**, **tSupplimentaryFreightPrice/Crating_Container**, **tSupplimentaryFreightPrice/Tarping**

Attributes	QName	Type	Fixed	Default	Use	Annotation
	Currency	**CurrencyCode**			required	
	UOM	**tUomDistanceWeightCountTime**			optional	

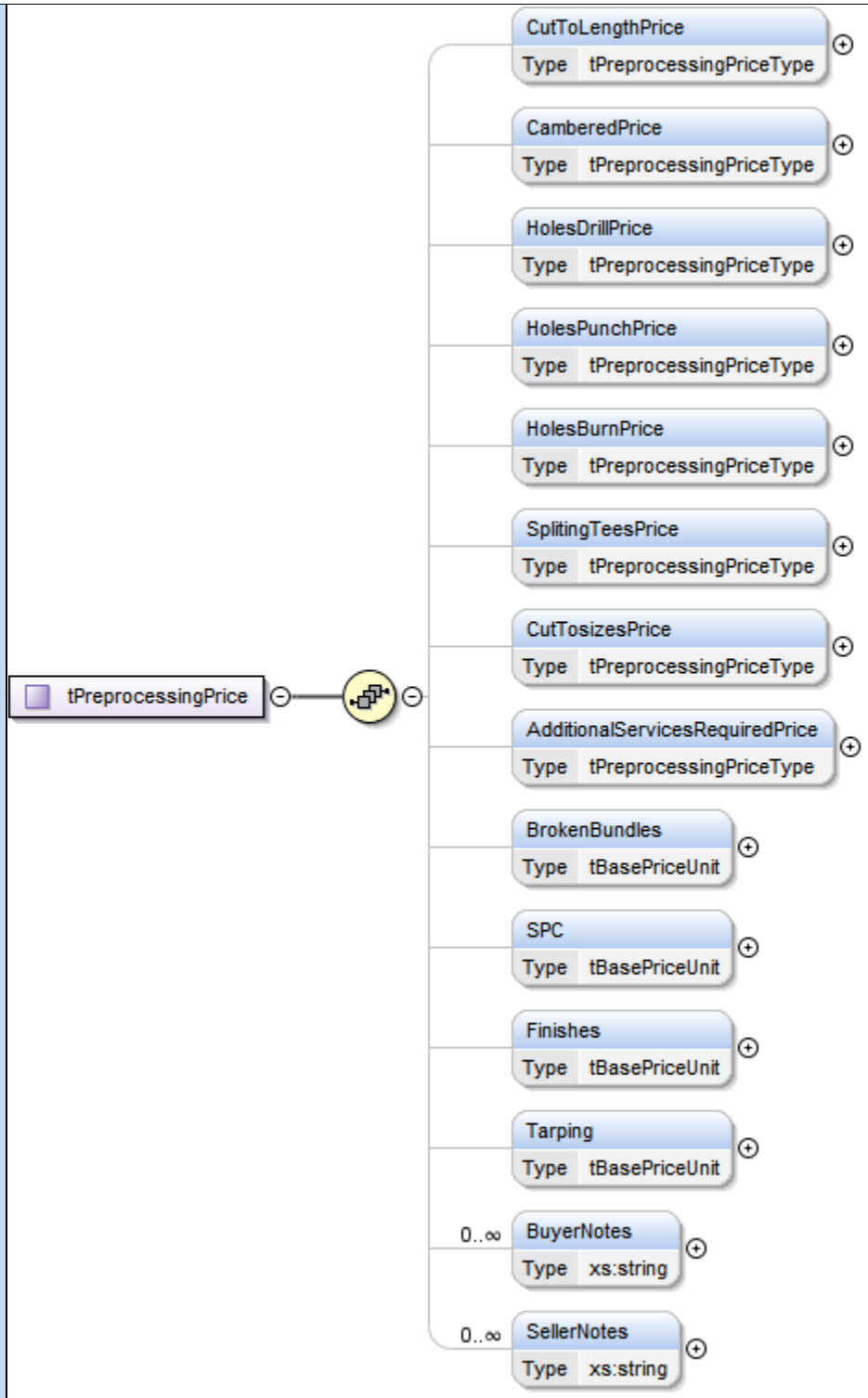
Source	`<xs:complexType name="tFreightBasePrice">`
	`  <xs:annotation>`
	`  <xs:documentation>This element describes the price based on the types of UOM and currency.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:simpleContent>`

	<xs:extension base="tCurrency"> <xs:attribute name="UOM" type="tUomDistanceWeightCountTime"/> </xs:extension> </xs:simpleContent> </xs:complexType>

2.84 tSupplimentaryFreightPrice

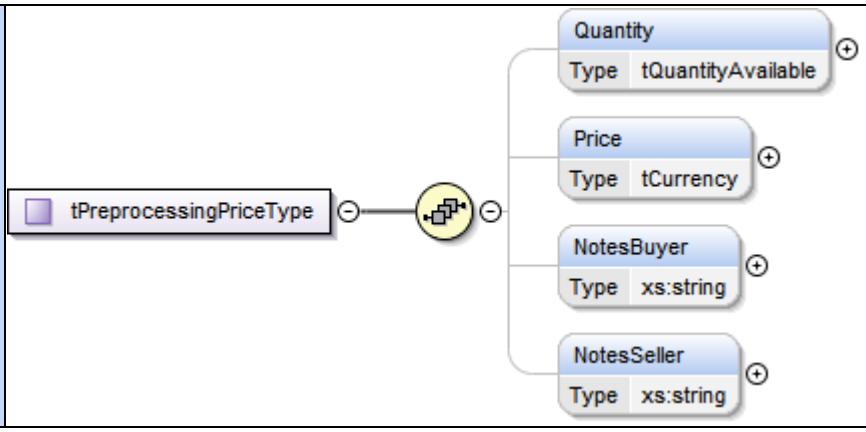
Diagram	
Used by	Element **tFreightPrice/SupplimentaryFreightPrice**
Model	**Tarping , Crating_Container**
Source	<xs:complexType name="tSupplimentaryFreightPrice"> <xs:sequence> <xs:element name="Tarping" type="tFreightBasePrice"/> <xs:element name="Crating_Container" type="tFreightBasePrice"/> </xs:sequence> </xs:complexType>

2.85 tPreprocessingPrice

Diagram	
Used by	Element **tPricingInformation/PreprocessingPrice**
Model	**CutToLengthPrice{0,1}** , **CamberedPrice{0,1}** , **HolesDrillPrice{0,1}** , **HolesPunchPrice{0,1}** , **HolesBurnPrice{0,1}** , **SplitingTeesPrice{0,1}** , **CutTosizesPrice{0,1}** , **AdditionalServicesRequiredPrice{0,1}** ,

	BrokenBundles{0,1} , SPC{0,1} , Finishes{0,1} , Tarping{0,1} , BuyerNotes* , SellerNotes*
Source	<xs:complexType name="tPreprocessingPrice"> <xs:sequence> <xs:element name="CutToLengthPrice" type="tPreprocessingPriceType" minOccurs="0"> <xs:annotation> <xs:documentation>This element represents the Cut to Length (CTL), or per cut and unit price.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CamberedPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="HolesDrillPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="HolesPunchPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="HolesBurnPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="SplitingTeesPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="CutTosizesPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="AdditionalServicesRequiredPrice" type="tPreprocessingPriceType" minOccurs="0"/> <xs:element name="BrokenBundles" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="SPC" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="Finishes" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="Tarping" type="tBasePriceUnit" minOccurs="0"/> <xs:element name="BuyerNotes" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="SellerNotes" type="xs:string" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

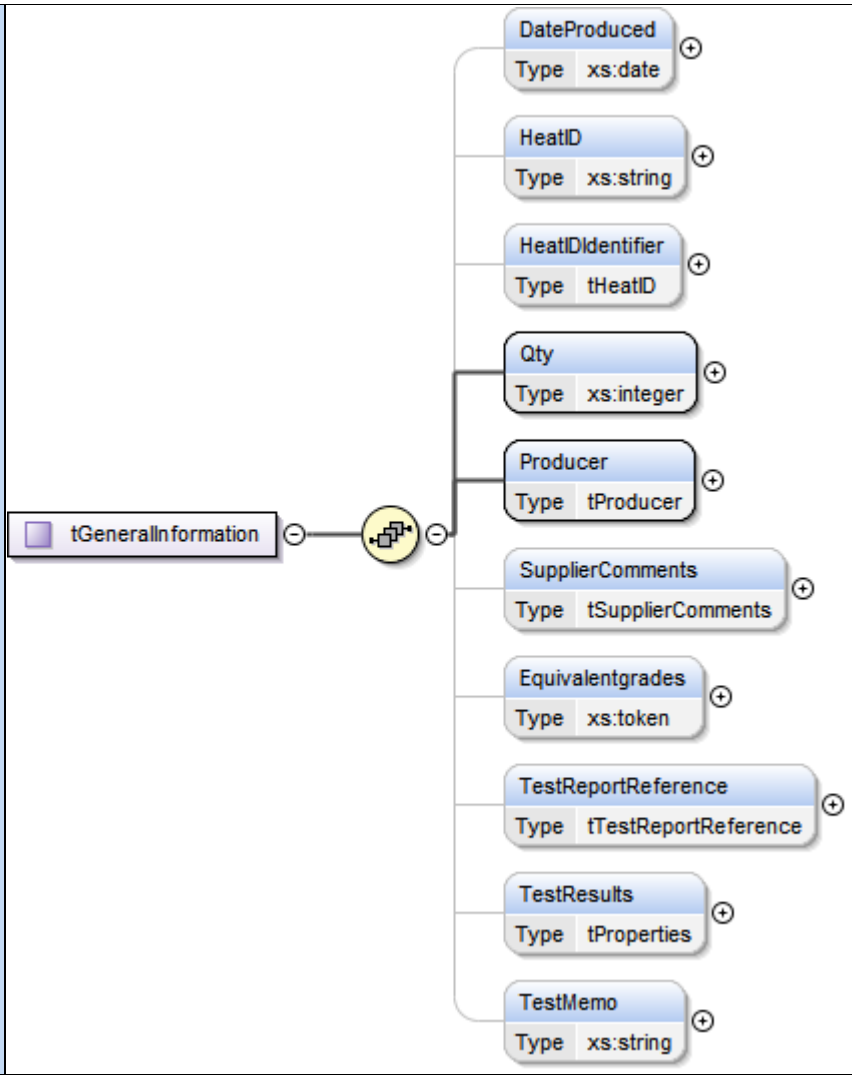
2.86 tPreprocessingPriceType

Diagram	

Used by	Elements **tPreprocessingPrice/AdditionalServicesRequiredPrice**, **tPreprocessingPrice/CamberedPrice**, **tPreprocessingPrice/CutToLengthPrice**, **tPreprocessingPrice/CutTosizesPrice**, **tPreprocessingPrice/HolesBurnPrice**, **tPreprocessingPrice/HolesDrillPrice**, **tPreprocessingPrice/HolesPunchPrice**, **tPreprocessingPrice/SplitingTeesPrice**
Model	**Quantity{0,1}** , **Price{0,1}** , **NotesBuyer{0,1}** , **NotesSeller{0,1}**

Source	`<xs:complexType name="tPreprocessingPriceType">`
	`  <xs:sequence>`
	`  <xs:element name="Quantity" type="tQuantityAvailable" minOccurs="0"/>`
	`  <xs:element name="Price" type="tCurrency" minOccurs="0"/>`
	`  <xs:element name="NotesBuyer" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="NotesSeller" type="xs:string" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

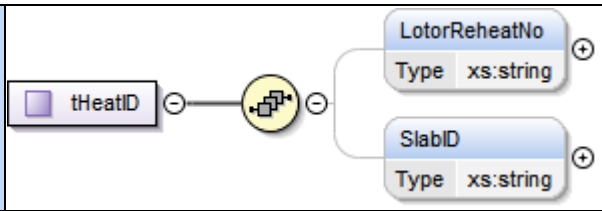
2.87 tGeneralInformation

Diagram	
Used by	Element **tItem/Heat**
Model	**DateProduced{0,1}** , **HeatID{0,1}** , **HeatIDIdentifier{0,1}** , **Qty** , **Producer** , **SupplierComments{0,1}** , **Equivalentgrades{0,1}** , **TestReportReference{0,1}** , **TestResults{0,1}** , **TestMemo{0,1}**
Source	<xs:complexType name="tGeneralInformation"> <xs:sequence> <xs:element name="DateProduced" type="xs:date" minOccurs="0"> <xs:annotation> <xs:documentation>This element shows production dates of specific materials.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="HeatID" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>A heat number is an identification number that is stamped on a material plate after it is removed from the ladle and rolled at a steel mill. This heat ID is the only way to trace a steel plate back to its Mill Sheet. A heat number is similar

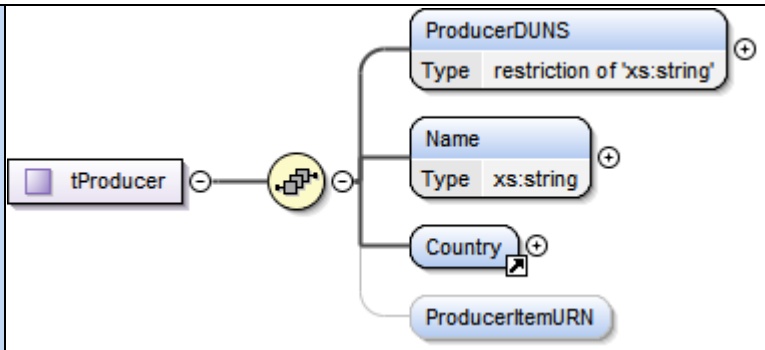
```
to a lot number, which is used to identify production runs of any
other product for quality control purposes.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="HeatIDIdentifier" type="tHeatID"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>An identification number consists a
lotorReheat number and a slab ID.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Qty" type="xs:integer">
      <xs:annotation>
        <xs:documentation>This element represents the number of
items ordered.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Producer" type="tProducer">
      <xs:annotation>
        <xs:documentation>This element represents producer
information such DUNs, name, and Prouder Item
URN.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SupplierComments" type="tSupplierComments"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This is supplementary information provided
by suppliers.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Equivalentgrades" type="xs:token"
minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element shows equivalent grades of
the specified one.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TestReportReference"
type="tTestReportReference" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element presents the test report
information, including reference number and an
attachment.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TestResults" type="tProperties" minOccurs="0">
      <xs:annotation>
        <xs:documentation>This element represents the chemical and
mechanical properties of an item. The detailed specifications are
added onto the lower components of elements.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TestMemo" type="xs:string" minOccurs="0">
      <xs:annotation>
```

	<xs:documentation>This is additional information to further inform buyers and other experts of any comments for a material test.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.88 tHeatID

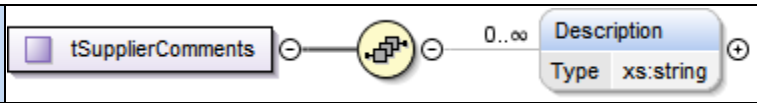
Diagram	
Used by	Element **tGeneralInformation/HeatIDIdentifier**
Model	**LotorReheatNo{0,1}** , **SlabID{0,1}**
Source	<xs:complexType name="tHeatID"> <xs:sequence> <xs:element name="LotorReheatNo" type="xs:string" minOccurs="0"/> <xs:element name="SlabID" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.89 tProducer

Diagram	
Used by	Element **tGeneralInformation/Producer**
Model	**ProducerDUNS** , **Name** , **Country** , **ProducerItemURN{0,1}**
Source	<xs:complexType name="tProducer"> <xs:sequence> <!-- ASN --> <xs:element name="ProducerDUNS"> <xs:annotation> <xs:documentation>This element contains a 9 digit Data Universal Numbering System (DUNS).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:maxLength value="9"/>

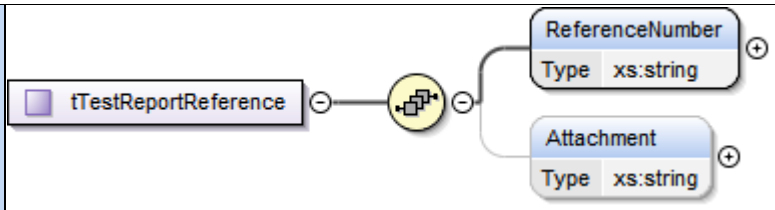
```
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="Name" type="xs:string"/>
    <xs:element ref="Country"/>
    <xs:element name="ProducerItemURN" minOccurs="0"/>
    <!-- END ASN -->
  </xs:sequence>
</xs:complexType>
```

2.90 tSupplierComments

Diagram	
Used by	Element **tGeneralInformation/SupplierComments**
Model	**Description***

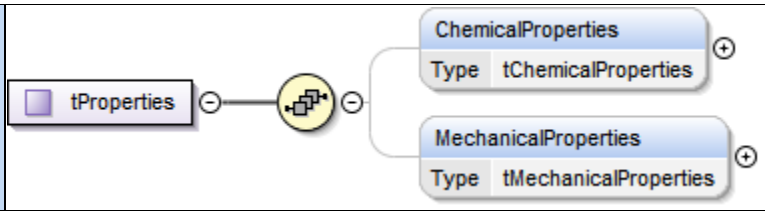
Source	`<xs:complexType name="tSupplierComments">`
	`  <xs:sequence>`
	`  <xs:element name="Description" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.91 tTestReportReference

Diagram	
Used by	Element **tGeneralInformation/TestReportReference**
Model	**ReferenceNumber , Attachment{0,1}**

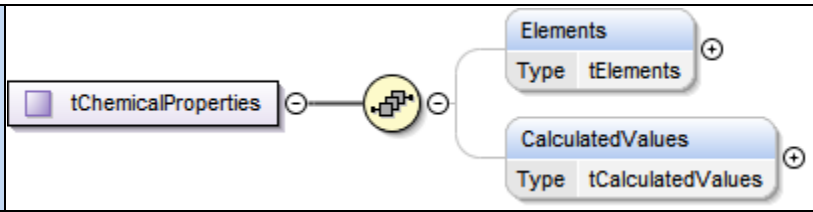
Source	`<xs:complexType name="tTestReportReference">`
	`  <xs:sequence>`
	`  <xs:element name="ReferenceNumber" type="xs:string"/>`
	`  <xs:element name="Attachment" type="xs:string" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.92 tProperties

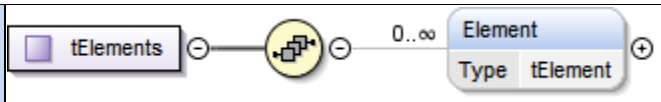
Diagram	
Used by	Element **tGeneralInformation/TestResults**

Model	**ChemicalProperties{0,1} , MechanicalProperties{0,1}**
Source	<xs:complexType name="tProperties"> <xs:sequence> <xs:element name="ChemicalProperties" type="tChemicalProperties" minOccurs="0"> <xs:annotation> <xs:documentation>The chemical test shows the chemical composition of basic elements include carbon, manganese, phosphorus, sulfur, silicon, copper, nickel, chromium, molybdenum, aluminum, and tin. Additional elements might also be included in the program.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="MechanicalProperties" type="tMechanicalProperties" minOccurs="0"> <xs:annotation> <xs:documentation>This element represents a set of mechanical test values.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

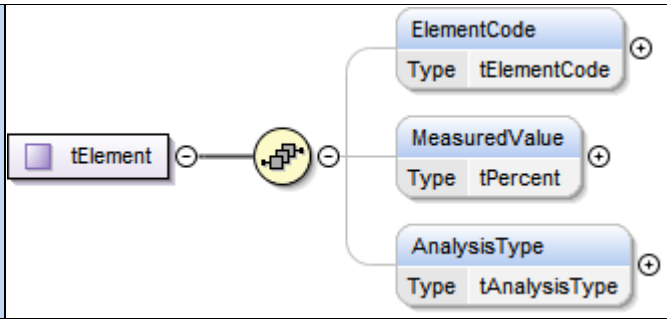
2.93 tChemicalProperties

Diagram	
Used by	Element **tProperties/ChemicalProperties**
Model	**Elements{0,1} , CalculatedValues{0,1}**
Source	<xs:complexType name="tChemicalProperties"> <xs:sequence> <xs:element name="Elements" type="tElements" minOccurs="0"> <xs:annotation> <xs:documentation>This element lists composing elements of material</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CalculatedValues" type="tCalculatedValues" minOccurs="0"> <xs:annotation> <xs:documentation>This element allows mulpiple values of elements.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

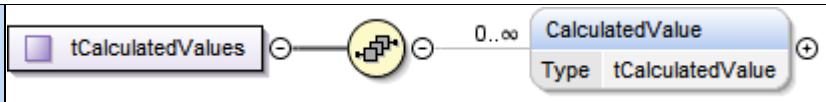
2.94 tElements

Diagram	
Used by	Element **tChemicalProperties/Elements**
Model	**Element***
Source	<xs:complexType name="tElements"> <xs:sequence> <xs:element name="Element" type="tElement" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.95 tElement

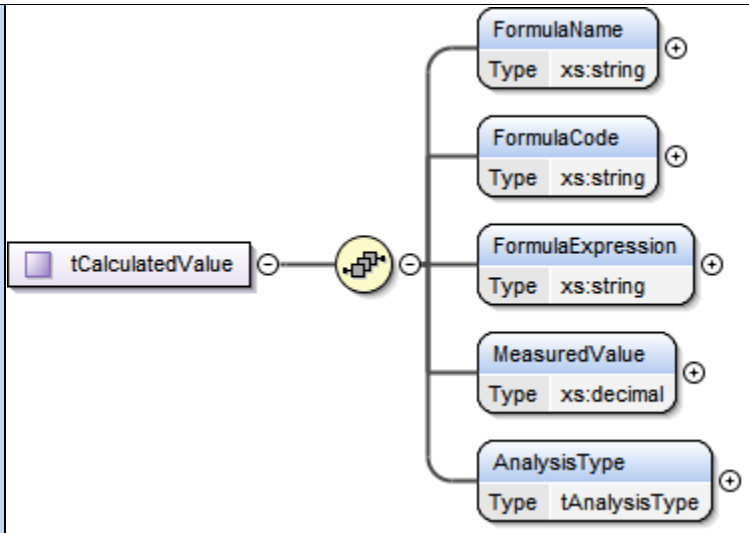
Diagram	
Used by	Element **tElements/Element**
Model	**ElementCode{0,1}** , **MeasuredValue{0,1}** , **AnalysisType{0,1}**
Source	<xs:complexType name="tElement"> <xs:sequence> <xs:element name="ElementCode" type="tElementCode" minOccurs="0"> <xs:annotation> <xs:documentation>This field provides predefined codes of elements that users can choose from.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="MeasuredValue" type="tPercent" minOccurs="0"/> <xs:element name="AnalysisType" type="tAnalysisType" minOccurs="0"> <xs:annotation> <xs:documentation>This element is the analysis type used for measuring the value.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.96 tCalculatedValues

Diagram	
Used by	Element **tChemicalProperties/CalculatedValues**
Model	**CalculatedValue***

Source	`<xs:complexType name="tCalculatedValues">`
	`  <xs:sequence>`
	`  <xs:element name="CalculatedValue" type="tCalculatedValue" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`
	`  <xs:documentation>This field lists the calculated value of chemical properties.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:complexType>`

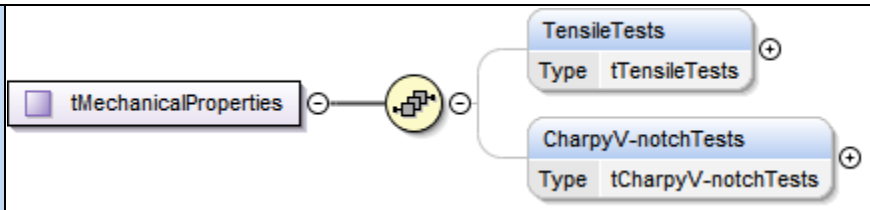
2.97 tCalculatedValue

Diagram	
Used by	Element **tCalculatedValues/CalculatedValue**
Model	**FormulaName** , **FormulaCode** , **FormulaExpression** , **MeasuredValue** , **AnalysisType**

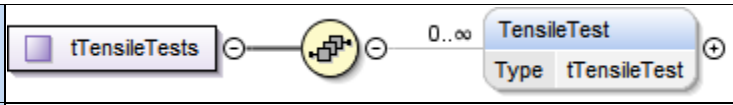
Source	`<xs:complexType name="tCalculatedValue">`
	`  <xs:sequence>`
	`  <xs:element name="FormulaName" type="xs:string"/>`
	`  <xs:element name="FormulaCode" type="xs:string"/>`
	`  <xs:element name="FormulaExpression" type="xs:string"/>`
	`  <xs:element name="MeasuredValue" type="xs:decimal"/>`
	`  <xs:element name="AnalysisType" type="tAnalysisType">`
	`  <xs:annotation>`
	`  <xs:documentation>This element is the analysis type used for measuring the value.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`

	</xs:sequence> </xs:complexType>

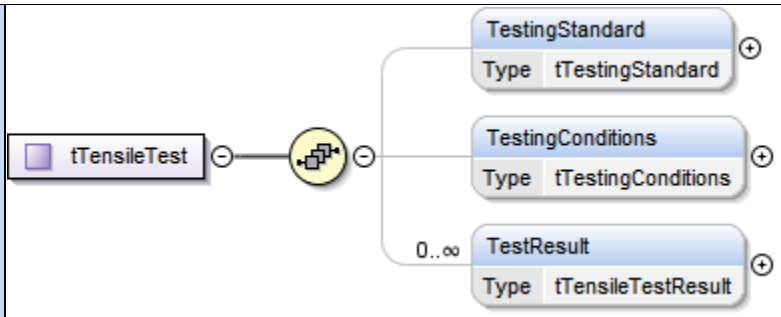
2.98 tMechanicalProperties

Diagram	
Used by	Element **tProperties/MechanicalProperties**
Model	**TensileTests{0,1} , CharpyV-notchTests{0,1}**
Source	<xs:complexType name="tMechanicalProperties"> <xs:sequence> <xs:element name="TensileTests" type="tTensileTests" minOccurs="0"> <xs:annotation> <xs:documentation>This element lists the tensile testing results.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CharpyV-notchTests" type="tCharpyV-notchTests" minOccurs="0"> <xs:annotation> <xs:documentation>This element lists the Charpy V notch test results.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

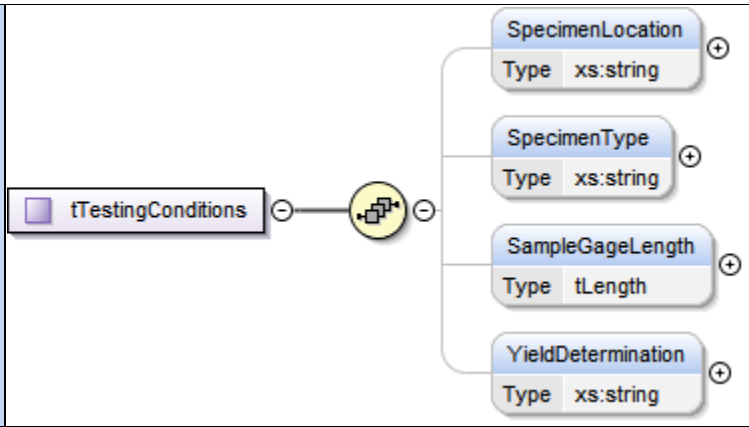
2.99 tTensileTests

Diagram	
Used by	Element **tMechanicalProperties/TensileTests**
Model	**TensileTest***
Source	<xs:complexType name="tTensileTests"> <xs:sequence> <xs:element name="TensileTest" type="tTensileTest" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.100 tTensileTest

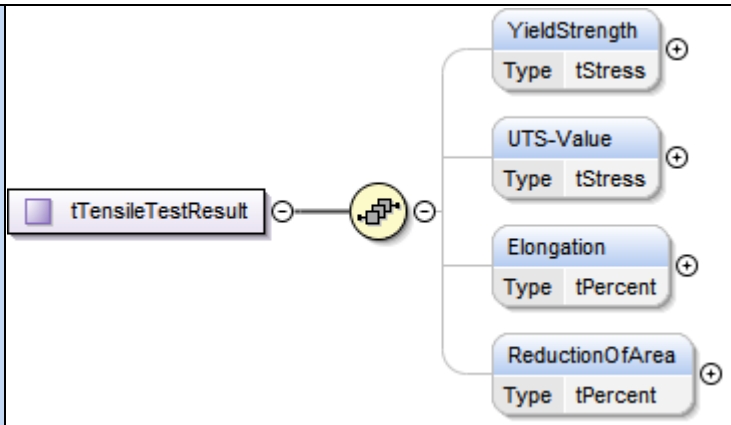
Diagram	
Used by	Element **tTensileTests/TensileTest**
Model	**TestingStandard{0,1}** , **TestingConditions{0,1}** , **TestResult***
Source	<xs:complexType name="tTensileTest"> <xs:sequence> <xs:element name="TestingStandard" type="tTestingStandard" minOccurs="0"> <xs:annotation> <xs:documentation>TestingStandard is an enumeration value, such as ASTM A370, ASTM A673, or AASHTO M160.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="TestingConditions" type="tTestingConditions" minOccurs="0"> <xs:annotation> <xs:documentation>This element describes testing conditions including location, specimen type, and yield determination.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="TestResult" type="tTensileTestResult" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>This element represents the results of a tensile test including yield strength, UTS-value, elongation, and reduction of area.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.101 tTestingConditions

Diagram	
Used by	Element **tTensileTest/TestingConditions**
Model	**SpecimenLocation{0,1}** , **SpecimenType{0,1}** , **SampleGageLength{0,1}** , **YieldDetermination{0,1}**

Source	`<xs:complexType name="tTestingConditions">`
	`  <xs:sequence>`
	`  <xs:element name="SpecimenLocation" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="SpecimenType" type="xs:string" minOccurs="0"/>`
	`  <xs:element name="SampleGageLength" type="tLength" minOccurs="0"/>`
	`  <xs:element name="YieldDetermination" type="xs:string" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

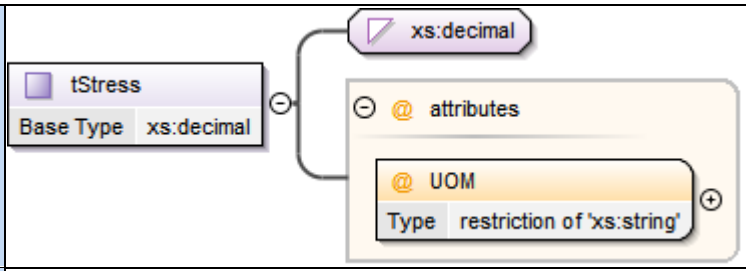
2.102 tTensileTestResult

Diagram	
Used by	Element **tTensileTest/TestResult**
Model	**YieldStrength{0,1}** , **UTS-Value{0,1}** , **Elongation{0,1}** , **ReductionOfArea{0,1}**

Source	`<xs:complexType name="tTensileTestResult">`
	`  <xs:sequence>`
	`  <xs:element name="YieldStrength" type="tStress" minOccurs="0"/>`
	`  <xs:element name="UTS-Value" type="tStress" minOccurs="0"/>`
	`  <xs:element name="Elongation" type="tPercent" minOccurs="0"/>`

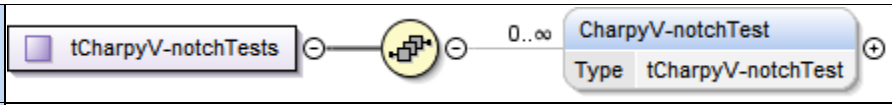
```
    <xs:element name="ReductionOfArea" type="tPercent"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

2.103 tStress

Diagram	
Type	extension of **xs:decimal**
Used by	Elements **tTensileTestResult/UTS-Value**, **tTensileTestResult/YieldStrength**
Attributes	QName Type Fixed Default Use Annotation UOM restriction of **xs:string** required

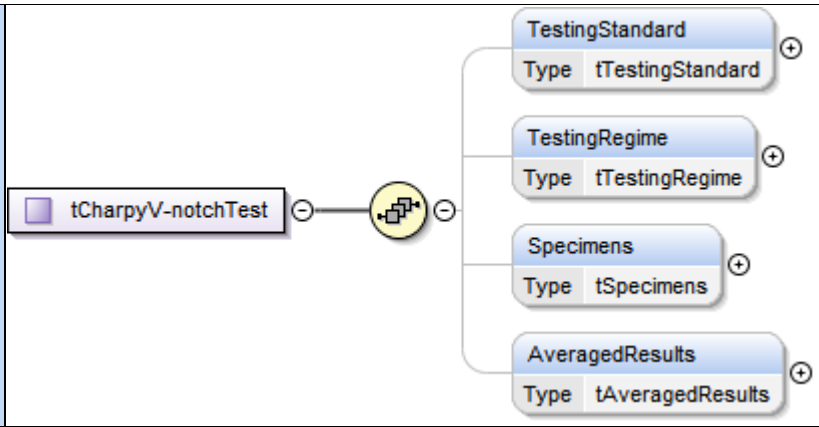
Source	`<xs:complexType name="tStress">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" use="required">`
	`  <xs:simpleType>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="PSI"/>`
	`  <xs:enumeration value="KSI"/>`
	`  <xs:enumeration value="MPA"/>`
	`  <xs:enumeration value="PA"/>`
	`  <xs:enumeration value="N/MM^2"/>`
	`  </xs:restriction>`
	`  </xs:simpleType>`
	`  </xs:attribute>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

2.104 tCharpyV-notchTests

Diagram	
Used by	Element **tMechanicalProperties/CharpyV-notchTests**
Model	**CharpyV-notchTest***

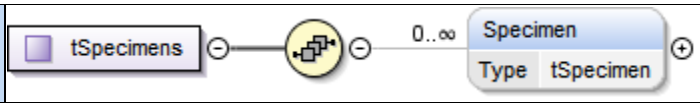
Source	`<xs:complexType name="tCharpyV-notchTests">`
	`  <xs:sequence>`
	`  <xs:element name="CharpyV-notchTest" type="tCharpyV-notchTest"`
	`minOccurs="0" maxOccurs="unbounded"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.105 tCharpyV-notchTest

Diagram	
Used by	Element **tCharpyV-notchTests/CharpyV-notchTest**
Model	**TestingStandard{0,1}** , **TestingRegime{0,1}** , **Specimens{0,1}** , **AveragedResults{0,1}**

Source	`<xs:complexType name="tCharpyV-notchTest">`
	`  <xs:sequence>`
	`  <xs:element name="TestingStandard" type="tTestingStandard" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>This element gives an enumeration value, such as ASTM A370, ASTM A673, or AASHTO M160.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="TestingRegime" type="tTestingRegime" minOccurs="0">`
	`  <xs:annotation>`
	`  <xs:documentation>This element represents one of the enumeration values, such as minimum Specified Energy and FATT.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:element>`
	`  <xs:element name="Specimens" type="tSpecimens" minOccurs="0"/>`
	`  <xs:element name="AveragedResults" type="tAveragedResults" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

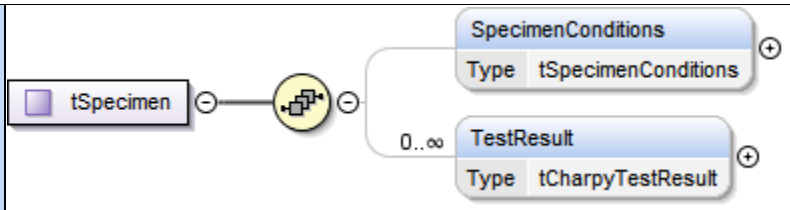
2.106 tSpecimens

Diagram	
Used by	Element **tCharpyV-notchTest/Specimens**
Model	**Specimen***

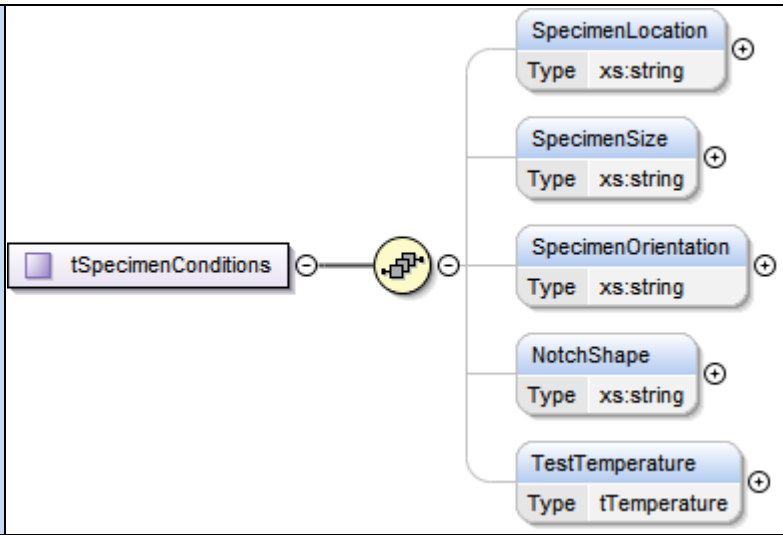
Source	`<xs:complexType name="tSpecimens">`
	`  <xs:sequence>`
	`  <xs:element name="Specimen" type="tSpecimen" minOccurs="0" maxOccurs="unbounded">`
	`  <xs:annotation>`

	<xs:documentation>This element allows for multiple specimens.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType>

2.107 tSpecimen

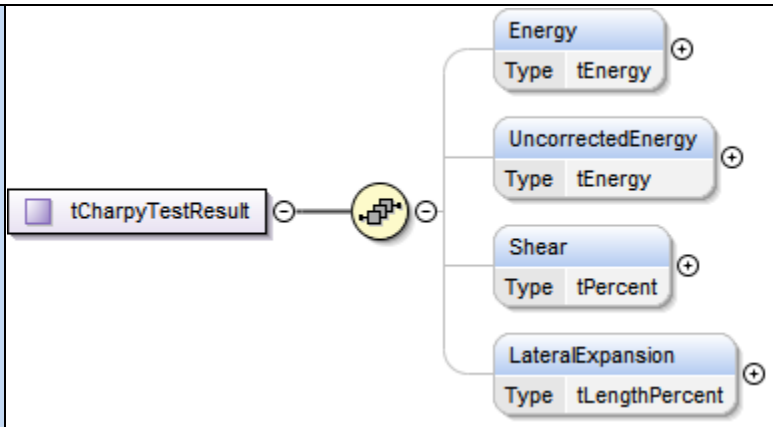
Diagram	
Used by	Element **tSpecimens/Specimen**
Model	**SpecimenConditions{0,1} , TestResult***
Source	<xs:complexType name="tSpecimen"> <xs:sequence> <xs:element name="SpecimenConditions" type="tSpecimenConditions" minOccurs="0"> <xs:annotation> <xs:documentation>This element represents additional information on specimen conditions.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="TestResult" type="tCharpyTestResult" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType>

2.108 tSpecimenConditions

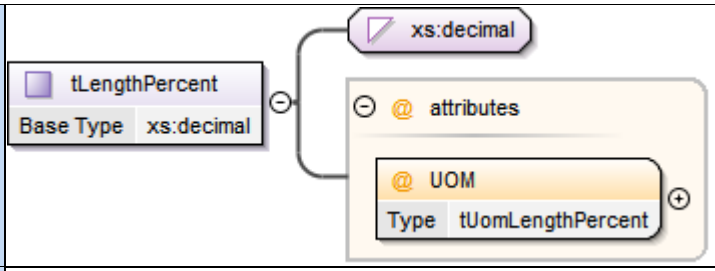
Diagram	
Used by	Element **tSpecimen/SpecimenConditions**

Model	**SpecimenLocation{0,1}** , **SpecimenSize{0,1}** , **SpecimenOrientation{0,1}** , **NotchShape{0,1}** , **TestTemperature{0,1}**
Source	<xs:complexType name="tSpecimenConditions"> <xs:sequence> <xs:element name="SpecimenLocation" type="xs:string" minOccurs="0"/> <xs:element name="SpecimenSize" type="xs:string" minOccurs="0"/> <xs:element name="SpecimenOrientation" type="xs:string" minOccurs="0"/> <xs:element name="NotchShape" type="xs:string" minOccurs="0"/> <xs:element name="TestTemperature" type="tTemperature" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.109 tCharpyTestResult

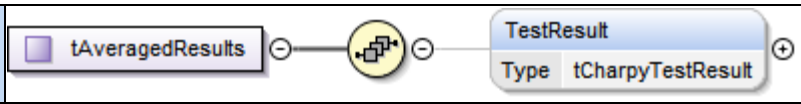
Diagram	
Used by	Elements **tAveragedResults/TestResult**, **tSpecimen/TestResult**
Model	**Energy{0,1}** , **UncorrectedEnergy{0,1}** , **Shear{0,1}** , **LateralExpansion{0,1}**
Source	<xs:complexType name="tCharpyTestResult"> <xs:sequence> <xs:element name="Energy" type="tEnergy" minOccurs="0"/> <xs:element name="UncorrectedEnergy" type="tEnergy" minOccurs="0"/> <xs:element name="Shear" type="tPercent" minOccurs="0"/> <xs:element name="LateralExpansion" type="tLengthPercent" minOccurs="0"/> </xs:sequence> </xs:complexType>

2.110 tLengthPercent

Diagram	
Type	extension of **xs:decimal**
Used by	Element **tCharpyTestResult/LateralExpansion**
Attributes	QName Type Fixed Default Use Annotation UOM **tUomLengthPercent** required

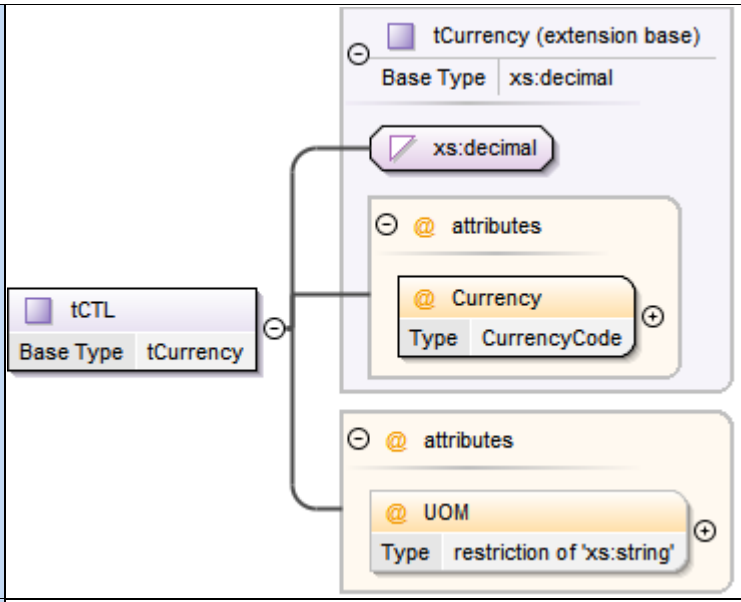
Source	`<xs:complexType name="tLengthPercent">`
	`  <xs:simpleContent>`
	`  <xs:extension base="xs:decimal">`
	`  <xs:attribute name="UOM" type="tUomLengthPercent" use="required"/>`
	`  </xs:extension>`
	`  </xs:simpleContent>`
	`</xs:complexType>`

2.111 tAveragedResults

Diagram	
Used by	Element **tCharpyV-notchTest/AveragedResults**
Model	**TestResult{0,1}**

Source	`<xs:complexType name="tAveragedResults">`
	`  <xs:sequence>`
	`  <xs:element name="TestResult" type="tCharpyTestResult" minOccurs="0"/>`
	`  </xs:sequence>`
	`</xs:complexType>`

2.112 tCTL

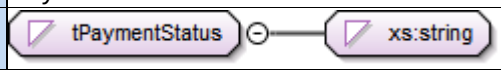
<table>
<tr><td>Diagram</td><td> 
</td></tr>
<tr><td>Type</td><td>extension of tCurrency</td></tr>
<tr><td>Type hierarchy</td><td>xs:decimal
tCurrency
tCTL</td></tr>
<tr><td>Attributes</td><td>
<table>
<tr><th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr>
<tr><td>Currency</td><td>CurrencyCode</td><td></td><td></td><td>required</td><td></td></tr>
<tr><td>UOM</td><td>restriction of xs:string</td><td></td><td></td><td>optional</td><td></td></tr>
</table>
</td></tr>
<tr><td>Source</td><td>

```
<xs:complexType name="tCTL">
  <xs:simpleContent>
    <xs:extension base="tCurrency">
      <xs:attribute name="UOM">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="Per cut"/>
            <xs:enumeration value="Unit Price"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

</td></tr>
</table>

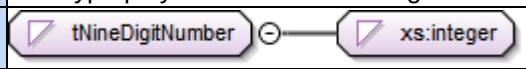
3 Simple Types

3.1 tPaymentStatus

Annotations	PaymentStatus element can have information with regard to Paid, Unpaid, and Partial paid.
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Paid** enumeration **Unpaid** enumeration **Partial**
Used by	Element **tInvoicing/PaymentStatus**

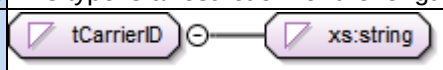
Source	`<xs:simpleType name="tPaymentStatus">`
	`  <xs:annotation>`
	`  <xs:documentation>PaymentStatus element can have information with regard to Paid, Unpaid, and Partial paid.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:enumeration value="Paid"/>`
	`  <xs:enumeration value="Unpaid"/>`
	`  <xs:enumeration value="Partial"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

3.2 tNineDigitNumber

Annotations	This type plays a role for restricting the number of string as a nine digit.
Diagram	
Type	restriction of **xs:integer**
Facets	maxInclusive **999999999** minInclusive **000000000**
Used by	Elements **tCustomer/SupplierDUNS**, **tCustomerGeneral/SupplierDUNS**, **tSupplier/SupplierDUNS**

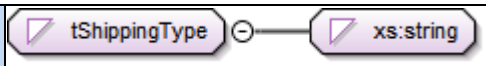
Source	`<xs:simpleType name="tNineDigitNumber">`
	`  <xs:annotation>`
	`  <xs:documentation>This type plays a role for restricting the number of string as a nine digit.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:integer">`
	`  <xs:minInclusive value="000000000"/>`
	`  <xs:maxInclusive value="999999999"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

3.3 tCarrierID

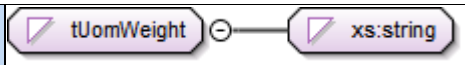
Annotations	This type is a restriction for the length of Carrier ID: from two to four digit number.
Diagram	
Type	restriction of **xs:string**

Facets	minLength **2** maxLength **4**
Used by	Element **tCarrier/CarrierID**
Source	<xs:simpleType name="tCarrierID"> <xs:annotation> <xs:documentation>This type is a restriction for the length of Carrier ID: from two to four digit number.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="2"/> <xs:maxLength value="4"/> </xs:restriction> </xs:simpleType>

3.4 tShippingType

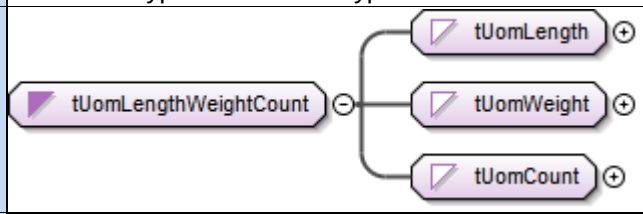
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Prepaid** enumeration **Collect**
Used by	Element **tHeader/ShipmentType**
Source	<xs:simpleType name="tShippingType"> <xs:restriction base="xs:string"> <xs:enumeration value="Prepaid"/> <xs:enumeration value="Collect"/> </xs:restriction> </xs:simpleType>

3.5 tUomWeight

Diagram		
Type	restriction of **xs:string**	
Facets	enumeration **T**	Ton, 1 T = 2000 LB
	enumeration **LB**	Pound
	enumeration **KG**	Kilo Gram
	enumeration **MT**	Tonne, 1 MT = 1000 KG
	enumeration **CWT**	hundredweight or centum weight, 1 CTW = 100 LB
Used by	Attribute **tWeight/@UOM**	
Source	<xs:simpleType name="tUomWeight"> <xs:restriction base="xs:string"> <xs:enumeration value="T"> <xs:annotation> <xs:documentation>Ton, 1 T = 2000 LB</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="LB"> <xs:annotation> <xs:documentation>Pound</xs:documentation> </xs:annotation>	

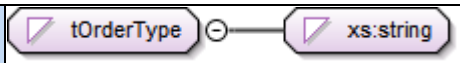
```
    </xs:enumeration>
    <xs:enumeration value="KG">
      <xs:annotation>
        <xs:documentation>Kilo Gram</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="MT">
      <xs:annotation>
        <xs:documentation>Tonne, 1 MT = 1000 KG</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="CWT">
      <xs:annotation>
        <xs:documentation>hundredweight or centum weight, 1 CTW =
100 LB</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <!-- ASN -->
    <!-- END ASN -->
  </xs:restriction>
</xs:simpleType>
```

3.6 tUomLengthWeightCount

Annotations	This union type includes the types of several units for weight, length, and count.
Diagram	
Type	union of(**tUomLength**, **tUomWeight**, **tUomCount**)
Used by	Attribute **tOrderUnit/@UOM**

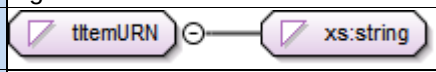
Source	`<xs:simpleType name="tUomLengthWeightCount">`
	`  <xs:annotation>`
	`  <xs:documentation>This union type includes the types of several units for weight, length, and count.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:union memberTypes="tUomLength tUomWeight tUomCount"/>`
	`</xs:simpleType>`

3.7 tOrderType

Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Spot Buy** enumeration **VMI** VMI stands for Vendor managed inventory.
Used by	Element **tTransactionAndOrder/OrderType**
Source	`<xs:simpleType name="tOrderType">` `  <xs:restriction base="xs:string">`

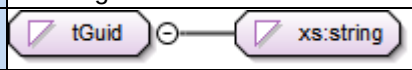
```
    <xs:enumeration value="Spot Buy"/>
    <xs:enumeration value="VMI">
      <xs:annotation>
        <xs:documentation>VMI stands for Vendor managed
inventory.</xs:documentation>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
```

3.8 tItemURN

Annotations	This element represents an uniform resource name of an item as 10 to 40 digits.
Diagram	
Type	restriction of **xs:string**
Facets	minLength **10** maxLength **40**
Used by	Elements **tItem/ItemURN**, **tNestedItem/NestingItemURN**

Source	`<xs:simpleType name="tItemURN">`
	`  <xs:annotation>`
	`  <xs:documentation>This element represents an uniform resource name of an item as 10 to 40 digits.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`
	`  <xs:minLength value="10" fixed="true"/>`
	`  <xs:maxLength value="40"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

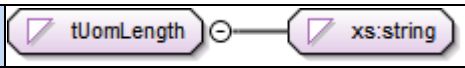
3.9 tGuid

Annotations	The representation of a GUID, Globally Unique Identifier or Universally unique identifier (UUID), generally the unique id associated in model based exchange as in IFC
Diagram	
Type	restriction of **xs:string**
Facets	pattern **[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}**
Used by	Element **tGuids/GUID**

Source	`<xs:simpleType name="tGuid">`
	`  <xs:annotation>`
	`  <xs:documentation xml:lang="en">The representation of a GUID, Globally Unique Identifier or Universally unique identifier (UUID), generally the unique id associated in model based exchange as in IFC</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:string">`

	<xs:pattern value="[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}"/> </xs:restriction> </xs:simpleType>

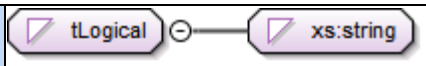
3.10 tUomLength

Diagram	
Type	restriction of **xs:string**
Facets	enumeration **in** enumeration **ft** enumeration **mm** enumeration **m**
Used by	Attribute **tLength/@UOM**
Source	<xs:simpleType name="tUomLength"> <xs:restriction base="xs:string"> <xs:enumeration value="in"/> <xs:enumeration value="ft"/> <xs:enumeration value="mm"/> <xs:enumeration value="m"/> </xs:restriction> </xs:simpleType>

3.11 tSupplierURN

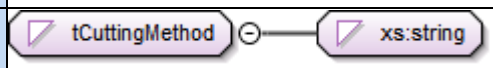
Diagram	
Type	restriction of **xs:string**
Facets	minLength **10** maxLength **40**
Used by	Element **tItem/SupplierURN**
Source	<xs:simpleType name="tSupplierURN"> <xs:restriction base="xs:string"> <xs:minLength value="10" fixed="true"/> <xs:maxLength value="40"/> </xs:restriction> </xs:simpleType>

3.12 tLogical

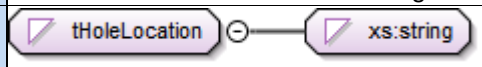
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **true** enumeration **false** enumeration **undefined**
Used by	Element **tCutToLength/DeliverCutToLength**
Source	<xs:simpleType name="tLogical"> <xs:restriction base="xs:string">

	<xs:enumeration value="true"/> <xs:enumeration value="false"/> <xs:enumeration value="undefined"/> </xs:restriction> </xs:simpleType>

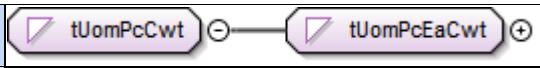
3.13 tCuttingMethod

Annotations	This field includes information on whether a material is drilled or punched, including hole diameter and location.
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **drill** enumeration **punch** enumeration **burn**
Used by	Element **tHole/CuttingMethod**
Source	<xs:simpleType name="tCuttingMethod"> <xs:annotation> <xs:documentation>This field includes information on whether a material is drilled or punched, including hole diameter and location.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="drill"/> <xs:enumeration value="punch"/> <xs:enumeration value="burn"/> </xs:restriction> </xs:simpleType>

3.14 tHoleLocation

Annotations	Hole location can be either on flange or on web.
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **flang** enumeration **web**
Used by	Element **tHole/HoleLocation**
Source	<xs:simpleType name="tHoleLocation"> <xs:annotation> <xs:documentation>Hole location can be either on flange or on web.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="flang"/> <xs:enumeration value="web"/> </xs:restriction> </xs:simpleType>

3.15 tUomPcCwt

Diagram	
Type	restriction of **tUomPcEaCwt**
Type hierarchy	**tUomPcEaCwt** **tUomPcCwt**
Facets	enumeration **Piece** enumeration **CWT**
Used by	Attribute **tQuantityAvailable/@UOM**

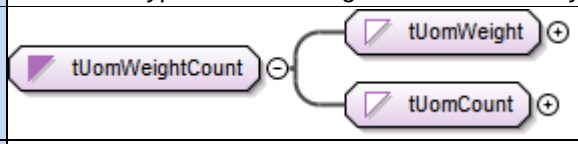
Source	`<xs:simpleType name="tUomPcCwt">`
	`  <xs:restriction base="tUomPcEaCwt">`
	`  <xs:enumeration value="Piece"/>`
	`  <xs:enumeration value="CWT"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

3.16 tUomPcEaCwt

Diagram	
Type	restriction of **tUomWeightCount**
Type hierarchy	**tUomPcEaCwt**
Facets	enumeration **Piece** enumeration **Each** enumeration **CWT**
Used by	Simple Type **tUomPcCwt**

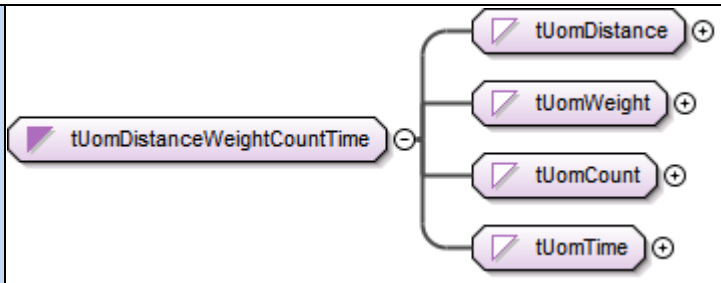
Source	`<xs:simpleType name="tUomPcEaCwt">`
	`  <xs:restriction base="tUomWeightCount">`
	`  <xs:enumeration value="Piece"/>`
	`  <xs:enumeration value="Each"/>`
	`  <xs:enumeration value="CWT"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

3.17 tUomWeightCount

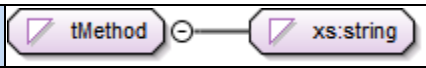
Annotations	This union type includes weight and count unit types.
Diagram	
Type	union of(**tUomWeight**, **tUomCount**)
Used by	Simple Type **tUomPcEaCwt**
Source	`<xs:simpleType name="tUomWeightCount">` `  <xs:annotation>`

	<xs:documentation>This union type includes weight and count unit types.</xs:documentation> </xs:annotation> <xs:union memberTypes="tUomWeight tUomCount"/> </xs:simpleType>

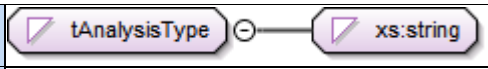
3.18 tUomDistanceWeightCountTime

Diagram	
Type	union of(**tUomDistance**, **tUomWeight**, **tUomCount**, **tUomTime**)
Used by	Attribute **tFreightBasePrice/@UOM**
Source	<xs:simpleType name="tUomDistanceWeightCountTime"> <xs:union memberTypes="tUomDistance tUomWeight tUomCount tUomTime"/> </xs:simpleType>

3.19 tMethod

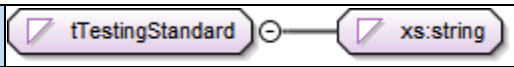
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Truck** enumeration **Rail** enumeration **Barge** enumeration **Transload**
Used by	Element **tFreightPrice/Method**
Source	<xs:simpleType name="tMethod"> <xs:restriction base="xs:string"> <xs:enumeration value="Truck"/> <xs:enumeration value="Rail"/> <xs:enumeration value="Barge"/> <xs:enumeration value="Transload"/> </xs:restriction> </xs:simpleType>

3.20 tAnalysisType

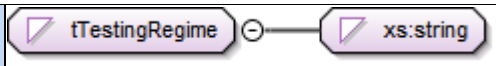
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Heat Analysis** enumeration **Product Check Analysis**

Used by	Elements **tCalculatedValue/AnalysisType**, **tElement/AnalysisType**
Source	<xs:simpleType name="tAnalysisType"> <xs:restriction base="xs:string"> <xs:enumeration value="Heat Analysis"/> <xs:enumeration value="Product Check Analysis"/> </xs:restriction> </xs:simpleType>

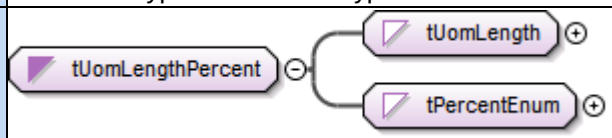
3.21 tTestingStandard

Diagram	
Type	restriction of **xs:string**
Facets	enumeration **ASTM A370** enumeration **ASTM A673** enumeration **AASHTO M160**
Used by	Elements **tCharpyV-notchTest/TestingStandard**, **tTensileTest/TestingStandard**
Source	<xs:simpleType name="tTestingStandard"> <xs:restriction base="xs:string"> <xs:enumeration value="ASTM A370"/> <xs:enumeration value="ASTM A673"/> <xs:enumeration value="AASHTO M160"/> </xs:restriction> </xs:simpleType>

3.22 tTestingRegime

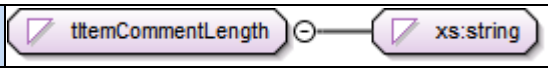
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Minimum Specified Energy** enumeration **FATT**
Used by	Element **tCharpyV-notchTest/TestingRegime**
Source	<xs:simpleType name="tTestingRegime"> <xs:restriction base="xs:string"> <xs:enumeration value="Minimum Specified Energy"/> <xs:enumeration value="FATT"/> </xs:restriction> </xs:simpleType>

3.23 tUomLengthPercent

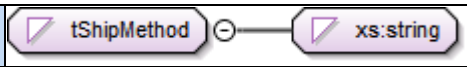
Annotations	This union type includes the types of several units for length and percent.
Diagram	
Type	union of(**tUomLength**, **tPercentEnum**)
Used by	Attribute **tLengthPercent/@UOM**

Source	<xs:simpleType name="tUomLengthPercent"> <xs:annotation> <xs:documentation>This union type includes the types of several units for length and percent.</xs:documentation> </xs:annotation> <xs:union memberTypes="tUomLength tPercentEnum"/> </xs:simpleType>

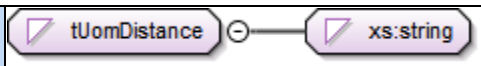
3.24 tItemCommentLength

Diagram	
Type	restriction of **xs:string**
Facets	length **50**
Used by	Element **tItem/CommentForItem**
Source	<xs:simpleType name="tItemCommentLength"> <xs:restriction base="xs:string"> <xs:length value="50"/> </xs:restriction> </xs:simpleType>

3.25 tShipMethod

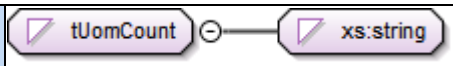
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Truck** enumeration **Rail** enumeration **Barge** enumeration **Transload** This element can include multi-methods for shipping such as a truck and a rail.
Source	<xs:simpleType name="tShipMethod"> <xs:restriction base="xs:string"> <xs:enumeration value="Truck"/> <xs:enumeration value="Rail"/> <xs:enumeration value="Barge"/> <xs:enumeration value="Transload"> <xs:annotation> <xs:documentation>This element can include multi-methods for shipping such as a truck and a rail.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType>

3.26 tUomDistance

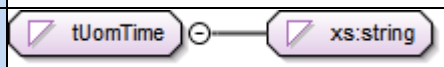
Diagram	
Type	restriction of **xs:string**

Facets	enumeration **km** enumeration **mi**
Source	<xs:simpleType name="tUomDistance"> <xs:restriction base="xs:string"> <xs:enumeration value="km"/> <xs:enumeration value="mi"/> </xs:restriction> </xs:simpleType>

3.27 tUomCount

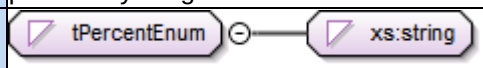
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Piece** PC stands for Per Piece. used for counting item. enumeration **Each** EA stands for Per Each, used for counting feature, such as hole enumeration **Load** Per Load, such as truck load
Source	<xs:simpleType name="tUomCount"> <xs:restriction base="xs:string"> <xs:enumeration value="Piece"> <xs:annotation> <xs:documentation>PC stands for Per Piece. used for counting item.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Each"> <xs:annotation> <xs:documentation>EA stands for Per Each, used for counting feature, such as hole</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Load"> <xs:annotation> <xs:documentation>Per Load, such as truck load</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType>

3.28 tUomTime

Annotations	Time related unit measure
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Hour** enumeration **Day**
Source	<xs:simpleType name="tUomTime"> <xs:annotation> <xs:documentation>Time related unit measure</xs:documentation> </xs:annotation>

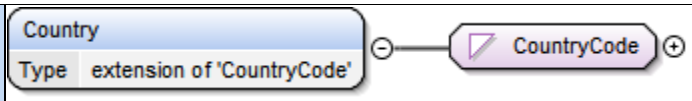
	<xs:restriction base="xs:string"> <xs:enumeration value="Hour"/> <xs:enumeration value="Day"/> </xs:restriction> </xs:simpleType>

3.29 tPercentEnum

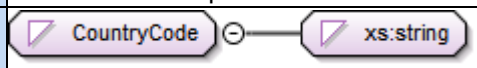
Annotations	This element describes the percent, which could be either percent or percent by weight.
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **Percent** enumeration **Percent by Weight**
Source	<xs:simpleType name="tPercentEnum"> <xs:annotation> <xs:documentation>This element describes the percent, which could be either percent or percent by weight.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Percent"/> <xs:enumeration value="Percent by Weight"/> </xs:restriction> </xs:simpleType>

4 Country Code Schema

4.1 Country

Diagram	
Type	extension of **CountryCode**
Type hierarchy	**xs:string** **CountryCode**
Properties	content: **complex**
Source	<xs:element name="Country"> <xs:complexType> <xs:simpleContent> <xs:extension base="CountryCode"> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element>

4.2 CountryCode

Namespace	AISCProcurement	
Annotations	The country code schema follows the two-letter code (alpha-2) of the ISO 3166-3:2013 “Codes for the representation of names of countries and their subdivisions”.	
Diagram		
Type	restriction of **xs:string**	
Facets	enumeration **AF**	AFGHNISTAN
	enumeration **AL**	ALBANIA
	enumeration **DZ**	ALGERIA
	enumeration **AS**	AMERICAN SAMOA
	enumeration **AD**	ANDORRA
	enumeration **AO**	ANGOLA
	enumeration **AI**	ANGUILLA
	enumeration **AQ**	ANTARCTICA
	enumeration **AG**	ANTIGUA AND BARBUDA
	enumeration **AR**	ARGENTINA
	enumeration **AM**	ARMENIA
	enumeration **AW**	ARUBA
	enumeration **AU**	AUSTRALIA
	enumeration **AT**	AUSTRIA
	enumeration **AZ**	AZERBAIJAN
	enumeration **BS**	BAHAMAS
	enumeration **BH**	BAHRAIN
	enumeration **BD**	BANGLADESH
	enumeration **BB**	BARBADOS

	enumeration	**BY**	BELARUS
	enumeration	**BE**	BELGIUM
	enumeration	**BZ**	BELIZE
	enumeration	**BJ**	BENIN
	enumeration	**BM**	BERMUDA
	enumeration	**BT**	BHUTAN
	enumeration	**BO**	BOLIVIA
	enumeration	**BA**	BOSNIA AND HERZEGOWINA
	enumeration	**BW**	BOTSWANA
	enumeration	**BV**	BOUVET ISLAND
	enumeration	**BR**	BRAZIL
	enumeration	**IO**	BRITISH INDIAN OCEAN TERRITORY
	enumeration	**BN**	BRUNEI DARUSSALAM
	enumeration	**BG**	BULGARIA
	enumeration	**BF**	BURKINA FASO
	enumeration	**BI**	BURUNDI
	enumeration	**KH**	CAMBODIA
	enumeration	**CM**	CAMEROON
	enumeration	**CA**	CANADA
	enumeration	**CV**	CAPE VERDE
	enumeration	**KY**	CAYMAN ISLANDS
	enumeration	**CF**	CENTRAL AFRICAN REPUBLIC
	enumeration	**TD**	CHAD
	enumeration	**CL**	CHILE
	enumeration	**CN**	CHINA
	enumeration	**CX**	CHRISTMAS ISLAND
	enumeration	**CC**	COCOS (KEELING) ISLANDS
	enumeration	**CO**	COLOMBIA
	enumeration	**KM**	COMOROS
	enumeration	**CG**	CONGO
	enumeration	**CK**	COOK ISLANDS
	enumeration	**CR**	COSTA RICA
	enumeration	**CI**	COTE D'IVOIRE
	enumeration	**HR**	CROATIA (local name: Hrvatska)
	enumeration	**CU**	CUBA
	enumeration	**CY**	CYPRUS
	enumeration	**CZ**	CZECH REPUBLIC
	enumeration	**DK**	DENMARK
	enumeration	**DJ**	DJIBOUTI
	enumeration	**DM**	DOMINICA
	enumeration	**DO**	DOMINICAN REPUBLIC
	enumeration	**TP**	EAST TIMOR
	enumeration	**EC**	ECUADOR
	enumeration	**EG**	EGYPT
	enumeration	**SV**	EL SALVADOR
	enumeration	**GQ**	EQUATORIAL GUINEA
	enumeration	**ER**	ERITREA
	enumeration	**EE**	ESTONIA

	enumeration	**ET**	ETHIOPIA
	enumeration	**FK**	FALKLAND ISLANDS (MALVINAS)
	enumeration	**FO**	FAROE ISLANDS
	enumeration	**FJ**	FIJI
	enumeration	**FI**	FINLAND
	enumeration	**FR**	FRANCE
	enumeration	**FX**	"FRANCE, METROPOLITAN"
	enumeration	**GF**	FRENCH GUIANA
	enumeration	**PF**	FRENCH POLYNESIA
	enumeration	**TF**	FRENCH SOUTHERN TERRITORIES
	enumeration	**GA**	GABON
	enumeration	**GM**	GAMBIA
	enumeration	**GE**	GEORGIA
	enumeration	**DE**	GERMANY
	enumeration	**GH**	GHANA
	enumeration	**GI**	GIBRALTAR
	enumeration	**GR**	GREECE
	enumeration	**GL**	GREENLAND
	enumeration	**GD**	GRENADA
	enumeration	**GP**	GUADELOUPE
	enumeration	**GU**	GUAM
	enumeration	**GT**	GUATEMALA
	enumeration	**GN**	GUINEA
	enumeration	**GW**	GUINEA-BISSAU
	enumeration	**GY**	GUYANA
	enumeration	**HT**	HAITI
	enumeration	**HM**	HEARD AND MC DONALD ISLANDS
	enumeration	**HN**	HONDURAS
	enumeration	**HK**	HONG KONG
	enumeration	**HU**	HUNGARY
	enumeration	**IS**	ICELAND
	enumeration	**IN**	INDIA
	enumeration	**ID**	INDONESIA
	enumeration	**IR**	IRAN (ISLAMIC REPUBLIC OF)
	enumeration	**IQ**	IRAQ
	enumeration	**IE**	IRELAND
	enumeration	**IL**	ISRAEL
	enumeration	**IT**	ITALY
	enumeration	**JM**	JAMAICA
	enumeration	**JP**	JAPAN
	enumeration	**JO**	JORDAN
	enumeration	**KZ**	KAZAKHSTAN
	enumeration	**KE**	KENYA
	enumeration	**KI**	KIRIBATI
	enumeration	**KP**	"KOREA, DEMOCRATIC PEOPLES REPUBLIC OF"
	enumeration	**KR**	"KOREA, REPUBLIC OF"
	enumeration	**KW**	KUWAIT
	enumeration	**KG**	KYRGYZSTAN

	enumeration	**LA**	LAO PEOPLE'S DEMOCRATIC REPUBLIC
	enumeration	**LV**	LATVIA
	enumeration	**LB**	LEBANON
	enumeration	**LS**	LESOTHO
	enumeration	**LR**	LIBERIA
	enumeration	**LY**	LIBYAN ARAB JAMAHIRIYA
	enumeration	**LI**	LIECHTENSTEIN
	enumeration	**LT**	LITHUANIA
	enumeration	**LU**	LUXEMBOURG
	enumeration	**MO**	MACAU
	enumeration	**MK**	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
	enumeration	**MG**	MADAGASCAR
	enumeration	**MW**	MALAWI
	enumeration	**MY**	MALAYSIA
	enumeration	**MV**	MALDIVES
	enumeration	**ML**	MALI
	enumeration	**MT**	MALTA
	enumeration	**MH**	MARSHALL ISLANDS
	enumeration	**MQ**	MARTINIQUE
	enumeration	**MR**	MAURITANIA
	enumeration	**MU**	MAURITIUS
	enumeration	**YT**	MAYOTTE
	enumeration	**MX**	MEXICO
	enumeration	**FM**	MICRONESIA, FEDERATED STATES OF
	enumeration	**MD**	"MOLDOVA, REPUBLIC OF"
	enumeration	**MC**	MONACO
	enumeration	**MN**	MONGOLIA
	enumeration	**MS**	MONTSERRAT
	enumeration	**MA**	MOROCCO
	enumeration	**MZ**	MOZAMBIQUE
	enumeration	**MM**	MYANMAR
	enumeration	**NA**	NAMIBIA
	enumeration	**NR**	NAURU
	enumeration	**NP**	NEPAL
	enumeration	**NL**	NETHERLANDS
	enumeration	**AN**	NETHERLANDS ANTILLES
	enumeration	**NC**	NEW CALEDONIA
	enumeration	**NZ**	NEW ZEALAND
	enumeration	**NI**	NICARAGUA
	enumeration	**NE**	NIGER
	enumeration	**NG**	NIGERIA
	enumeration	**NU**	NIUE
	enumeration	**NF**	NORFOLK ISLAND
	enumeration	**MP**	NORTHERN MARIANA ISLANDS
	enumeration	**NO**	NORWAY
	enumeration	**OM**	OMAN
	enumeration	**PK**	PAKISTAN
	enumeration	**PW**	PALAU

	enumeration	**PA**	PANAMA
	enumeration	**PG**	PAPUA NEW GUINEA
	enumeration	**PY**	PARAGUAY
	enumeration	**PE**	PERU
	enumeration	**PH**	PHILIPPINES
	enumeration	**PN**	PITCAIRN
	enumeration	**PL**	POLAND
	enumeration	**PT**	PORTUGAL
	enumeration	**PR**	PUERTO RICO
	enumeration	**QA**	QATAR
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	enumeration	**RU**	RUSSIAN FEDERATION
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	enumeration	**LC**	SAINT LUCIA
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	enumeration **TN**	TUNISIA
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	enumeration **VE**	VENEZUELA
	enumeration **VN**	VIET NAM
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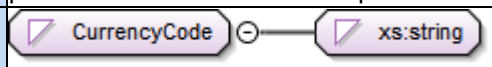
5 Currency Code Schema

5.1 CurrencyCode

Annotations	The currency code schema follows the three-letter code of the ISO 4217:2008 “Codes for the representation of currencies and funds”. The first two letters of the ISO 4217 three-letter code are the same as the code for the country name in ISO 3166, and where possible the third letter corresponds to the first letter of the currency name.	
Diagram		
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	enumeration **EUR**	ANDORRA
	enumeration **AOA**	ANGOLA
	enumeration **XCD**	ANGUILLA
	enumeration	ANTARCTICA
	enumeration **XCD**	ANTIGUA AND BARBUDA
	enumeration **ARS**	ARGENTINA
	enumeration **AMD**	ARMENIA
	enumeration **AWG**	ARUBA
	enumeration **AUD**	AUSTRALIA
	enumeration **EUR**	AUSTRIA
	enumeration **AZN**	AZERBAIJAN
	enumeration **BSD**	BAHAMAS
	enumeration **BHD**	BAHRAIN
	enumeration **BDT**	BANGLADESH
	enumeration **BBD**	BARBADOS
	enumeration **BYR**	BELARUS
	enumeration **EUR**	BELGIUM
	enumeration **BZD**	BELIZE
	enumeration **XOF**	BENIN
	enumeration **BMD**	BERMUDA
	enumeration **BTN**	BHUTAN
	enumeration **INR**	BHUTAN
	enumeration **BOB**	BOLIVIA, PLURINATIONAL STATE OF
	enumeration **BOV**	BOLIVIA, PLURINATIONAL STATE OF
	enumeration **USD**	BONAIRE, SINT EUSTATIUS AND SABA
	enumeration **BAM**	BOSNIA AND HERZEGOVINA
	enumeration **BWP**	BOTSWANA
	enumeration **NOK**	BOUVET ISLAND
	enumeration **BRL**	BRAZIL
	enumeration **USD**	BRITISH INDIAN OCEAN TERRITORY
	enumeration **BND**	BRUNEI DARUSSALAM

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	enumeration	**XOF**	BURKINA FASO
	enumeration	**BIF**	BURUNDI
	enumeration	**KHR**	CAMBODIA
	enumeration	**XAF**	CAMEROON
	enumeration	**CAD**	CANADA
	enumeration	**CVE**	CAPE VERDE
	enumeration	**KYD**	CAYMAN ISLANDS
	enumeration	**XAF**	CENTRAL AFRICAN REPUBLIC
	enumeration	**XAF**	CHAD
	enumeration	**CLF**	CHILE
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	enumeration	**CNY**	CHINA
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	enumeration	**AUD**	COCOS (KEELING) ISLANDS
	enumeration	**COP**	COLOMBIA
	enumeration	**COU**	COLOMBIA
	enumeration	**KMF**	COMOROS
	enumeration	**XAF**	CONGO
	enumeration	**CDF**	CONGO, THE DEMOCRATIC REPUBLIC OF
	enumeration	**NZD**	COOK ISLANDS
	enumeration	**CRC**	COSTA RICA
	enumeration	**XOF**	CÔTE D'IVOIRE
	enumeration	**HRK**	CROATIA
	enumeration	**CUC**	CUBA
	enumeration	**CUP**	CUBA
	enumeration	**ANG**	CURAÇAO
	enumeration	**EUR**	CYPRUS
	enumeration	**CZK**	CZECH REPUBLIC
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	enumeration	**DJF**	DJIBOUTI
	enumeration	**XCD**	DOMINICA
	enumeration	**DOP**	DOMINICAN REPUBLIC
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	enumeration	**EGP**	EGYPT
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	enumeration	**USD**	EL SALVADOR
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	enumeration	**EUR**	EUROPEAN UNION
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	enumeration	**DKK**	FAROE ISLANDS
	enumeration	**FJD**	FIJI
	enumeration	**EUR**	FINLAND
	enumeration	**EUR**	FRANCE
	enumeration	**EUR**	FRENCH GUIANA

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	enumeration	**DKK**	GREENLAND
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	enumeration	**USD**	HAITI
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	enumeration	**KES**	KENYA
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6 Element Code Schema

6.1 tElementCode

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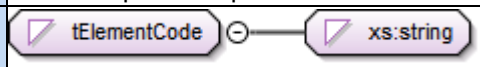
Diagram	
Type	restriction of **xs:string**
Facets	enumeration **CHS114.3/3.6** enumeration **Al (sol)** Aluminium (Acid Soluble) enumeration **Al** Aluminium enumeration **As** Arsenic enumeration **B** Boron enumeration **C** Carbon enumeration **Ca** Calcium enumeration **Cb** Columbium enumeration **Ce** Celerium enumeration **Co** Cobolt enumeration **Cr** Chromium enumeration **Cu** Copper enumeration **Fe** Iron enumeration **H** Hydrogen enumeration **Mn** Manganese enumeration **Mo** Molybdenum enumeration **N** Nitrogen enumeration **Nb** Niobium enumeration **Ni** Nickel enumeration **O** Oxygen enumeration **P** Phosphorus enumeration **Pb** Lead enumeration **S** Sulfur enumeration **Sb** Antimony enumeration **Si** Silicon enumeration **Sn** Tin enumeration **Ti** Titanium enumeration **V** Vanadium enumeration **W** Tungsten enumeration **Zn** Zinc

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