

EAN.UCC XML  
Business Message  
Standard For

Allowance Charge

Version 1.3.1

November 2003



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## **Purpose**

The purpose of this Business Message Standard is to provide the necessary information to implement this message as part of the EAN.UCC System. The information contained within this document is a direct result of the work conducted by the EAN.UCC's Pay Business Requirements Group.

The content of this document is actually a collection of material from several different sources to create a single source of information that will provide the necessary basics to understand and implement this EAN.UCC Business Message Standard. The core of this document originates from the Business Requirements Document that is created by the Business Requirements Groups to define the business needs that are to be addressed by this Message. The document then provides the technical details needed to implement the message: a report from the Global Data Dictionary, StyleSheet and Instance File.

This Business Message Standard is meant to be used in conjunction with the EAN.UCC XML Schemas that are available on the EAN and UCC websites. The implementer of these standards needs to be aware of the interrelationship amongst the XML Schemas and the importance of using only interoperable versions.

The reader will notice as they progress through this document that there are several different 'levels' of information that is presented. We begin with the business rationale for the message and then move into the technical details of how and what is needed to exchange this message. This design is deliberate to reach the broadest audience and to meet their needs. Based upon the reader's experience and intentions, specific sections of this document may be more valuable than others. This design and content of this document is based upon the direct feedback from our user community and as such, we are constantly revising and refining how and what we present.

## Background

EAN.UCC Business Message Standard:	Allowance Charge	
Business Requirement Group:	Pay	
Business Requirement Document:	Allowance Charge	
Business Requirements Group Manager:	Tom Heist	Uniform Code Council
Global Data Dictionary:	EAN.UCC Global Data Dictionary v1.3.1	
Schemas:	EAN.UCC Schemas v1.3.1	
Schemas have been tested on Parser(s) and Version(s):	XML Spy Version 4.4, Xerces, XSV	

# Business Requirements Group (BRG)

Business Requirements  
Document For

Allowance Charge

Version 1.2

April 2003

**Document History**

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**Document Change History Log**

<b>Date of Change</b>	<b>Version</b>	<b>Reason for Change</b>	<b>Summary of Change</b>
July 2001	1.0	Version 1.0 Release	
April 2003	1.2	Harmonisation version 1.3.1	

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## 1.0 Overview of Allowance Charge

The Allowance-Charge Extension contains the details for allowances and charges. This extension can be used as a message to establish allowance-charge terms during data alignment. It can be used also as a component of another message, such as a request for payment, to specify allowances and charges related to the entire message or to individual line items contained in the message. The basis for the calculation of the allowance-charge may be a calculation, a percentage, an amount or a rate. This extension details the structure and content for all of these functions.

### 1.1 Allowance-Charge Used in Data Alignment

Data alignment is the process for establishing static information prior to transactions such as purchase orders, request for payments, and despatch advices. Allowances and charges can be aligned between buyers and sellers as a static set of terms, and referenced as required. Allowances and charges as standard terms can be established through an allowance-charge message.

### 1.2 Allowance-Charge Used as an Extension

When static allowance-charge terms are not established in the data alignment process, this extension can be applied to other messages. In this case the allowance-charge extension extends another message to specify allowances or charges for each line item, and for the entire message.

## 2.0 Allowance Charge Attribute List

This section refers to the class diagram for the 'Allowance Charge' scenario. The colour-coding on the diagram is as follows:

Red indicates that the class is the root class for the diagram.  
Grey indicates that the class is outside of or external to the root class.  
Yellow indicates that the class pertains specifically to the root class.  
Green indicates notes.

The 'Allowance Charge' classes are pictured and are listed alphabetically. These include:

- Allowance Charge
- Allowance Charge List
- Allowance Charge Price Bracket
- Allowance Or Charge List
- Amount
- Effective Date List
- Measurement Value
- Monetary Amount Or Percentage
- Percentage



- Rate Per Unit
- Settlement List

## 2.1 Allowance Charge

Allowance Charge is the root of the class diagram. There is a mandatory association to the Allowance Or Charge List with a role of allowance or charge type to select 'allowance' or 'charge'. There are two associations to the Monetary Amount or Percentage class with role names of monetary amount or percentage (mandatory with possible multiple occurrence) and base amount (optional). There is one mandatory association to the Allowance Charge List class to select an allowance charge type. There is one optional association to the Effective Date List class to select an effective date type. There is one mandatory association to the Settlement List class to select a settlement type. There is an optional association to Allowance Charge Price Bracket class. Allowance Charge class has two attribute:

- Description
- Sequence number

## 2.2 Allowance Charge List

Allowance Charge Type is required to identify the allowance or charge. The allowance charge type for the allowance charge is mandatory. Allowance Charge class has the following attributes:

- ALLOWANCE\_GLOBAL
- CHARGE\_GLOBAL
- CONSOLIDATED
- FLAT\_RATE
- FREE\_GOODS
- FREIGHT\_COSTS
- INSURANCE\_CHARGE
- LUMP\_SUM
- MARKUP\_FOR\_SMALL\_VOLUME\_PURCHASES
- PACKING\_CHARGES

## 2.3 Allowance Charge Price Bracket

Allowance Charge Price Bracket is used to identify the price brackets the allowance or charge is associated to. It is optional. The class contains one attribute with possible multiple occurrences:

- Bracket Identifier

## 2.4 Allowance Or Charge List

Allowance Or Charge Type is required to identify the allowance or charge. The allowance or charge type for the allowance charge is mandatory. Allowance Charge Type class has the following attributes:

- ALLOWANCE
- CHARGE

## 2.5 Amount

Amount is an external class that originates in Amount. Amount is an optional monetary amount that is given as a value with an indicator for the currency used. The ISO 4217 three-character alpha code is used. Amount has one attribute

- Currency ISO Code

## 2.6 Effective Date List

Effective Date is used only in the data alignment process. It is the allowance or charge effective date. The effective date type for the allowance charge is optional. Effective Date List class has the following attributes:

- EFFECTIVE\_DATE
- EXPIRATION\_DATE
- FIRST\_ARRIVAL\_DATE
- FIRST\_ORDER\_DATE
- FIRST\_SHIP\_DATE
- LAST\_ARRIVAL\_DATE
- LAST\_ORDER\_DATE
- LAST\_SHIP\_DATE

## 2.7 Measurement Value

Measurement Value is an external class that originates in Measurement. Measurement is an optional measurement used to indicate an allowance or charge applied against a given measurement or quantity. Each measurement is composed of a value and a unit of measure. There is multiple and numerous possible unit of measures. The EAN.UCC system refers to the UN/Cefact's UN/ECE Recommendation 20 list for the possible unit of measure (UoM). The unit of measure is not broken down into categories of UOM such as "Time UoM, Weight UoM, Dimensional UoM, or Net Content UoM". It's a list of all the possible units of measure. Measurement Value has one attribute:

- Unit Of Measure

## 2.8 Monetary Amount Or Percentage

Monetary Amount Or Percentage class is a monetary amount, percentage, or measurement required for each allowance or charge through the mandatory monetary amount or percentage role. This is the optional monetary amount or measurement against which an allowance or charge is calculated in the base amount role. There has to be at least one active association of the four associations with Amount, Rate Per Unit, Percentage and Measurement value

- There are no attributes.

## **2.9 Percentage**

Percentage is an external class that originates in Extended Data Type. Percentage is an optional percentage of the basis on which the allowance or charge is applied. The basis on which this is applied is either the total amount or the line item amount. Percentage has no attributes.

## **2.10 Rate Per Unit**

In addition to Amount, Measurement, and Percentage, a Rate Per Unit can be specified. If Rate Per Unit is used, the rate per unit is specified as a monetary amount per unit, as a measurement such as a quantity, weight, or dimension, or as a percentage per unit.

The class contains one attribute

- Allowance Or Charge Rate Per Unit

## **2.11 Settlement List**

Settlement Type is required to specify how the allowance or charge is to be settled. This class is mandatory. This class has the following attributes:

- BILL\_BACK
- CHARGE\_TO\_BE\_PAID\_BY\_CUSTOMER
- CHARGE\_TO\_BE\_PAID\_BY\_VENDOR
- CREDIT\_CUSTOMER\_ACCOUNT
- ITEM\_ACCRUALS
- OFF\_INVOICE
- VENDOR\_ACCRUALS
- VENDOR\_CHECK

### 3.0 Global Data Dictionary Report

#### *AllowanceCharge*

description - A text explanation of the allowance or charge. description is optional.  
sequenceNumber - A unique number used to indicate the order in which the allowances or charges are to be calculated.

#### *AllowanceChargeList*

ALLOWANCE\_GLOBAL - An allowance applicable to the total invoice as well as applicable to the item.

CHARGE\_GLOBAL - A charge applicable to the total invoice as well as applicable to the item.

CONSOLIDATED - The amount specified is the total of all charges/allowances. Depending on specification of allowance/charge on item and/or on the total invoice, there has to be specified a consolidated amount for both the item and total invoice levels.

FREE\_GOODS - The quantity of goods which are free of charge.

FLAT\_RATE - Allowance or charge rate per unit.

FREIGHT\_COSTS - A charge to be paid for moving items, by various means, from one place to another, inclusive discounts, allowances, rebates, adjustment factors and additional cost relating to freight costs, applied to the total invoice.

INSURANCE\_CHARGE - A charge for insurance, applied to the total invoice.

LUMP\_SUM - The total allowance amount granted by the seller when the relationship to a specific item and or specific rate is not identifiable.

MARKUP\_FOR\_SMALL\_VOLUME\_PURCHASES - A charge applicable to the item when the item was ordered under minimum.

PACKING\_CHARGES - A charge for packing, applied to the total invoice.

#### *AllowanceChargePriceBracket*

bracketIdentifier: TBD

#### *AllowanceOrChargeList*

ALLOWANCE

CHARGE

#### *EffectiveDateList*

EFFECTIVE\_DATE - The date on which this event is effective.

EXPIRATION\_DATE - The latest date the product will be available.

FIRST\_ARRIVAL\_DATE - The first date that the order will arrive.

FIRST\_ORDER\_DATE - The first date the item is available for ordering.

FIRST\_SHIP\_DATE - The first date on which the order can be shipped.

LAST\_ARRIVAL\_DATE - The last date the order will arrive.

LAST\_ORDER\_DATE - The last ordered date or discontinued date. The date the item is no longer available for ordering.

LAST\_SHIP\_DATE - The last date on which the order can be shipped.

#### *MonetaryAmountOrPercentage*

#### *RatePerUnit*

allowanceOrChargeRatePerUnit: TBD

### *SettlementList*

BILL\_BACK – This indicates the buyer will bill back the seller. The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice.

CHARGE\_TO\_BE\_PAID\_BY\_CUSTOMER - A charge that is paid by the customer, and for which the amount is not reflected in the total invoice amount.

CHARGE\_TO\_BE\_PAID\_BY\_VENDOR - A charge that is paid by the vendor, and for which the amount is not be reflected in the total invoice amount.

CREDIT\_CUSTOMER\_ACCOUNT - The settlement will be a credit to the customers account.

ITEM\_ACCRUALS - The settlement will be a vendor check and the amount will not be reflected in the total invoice amount.

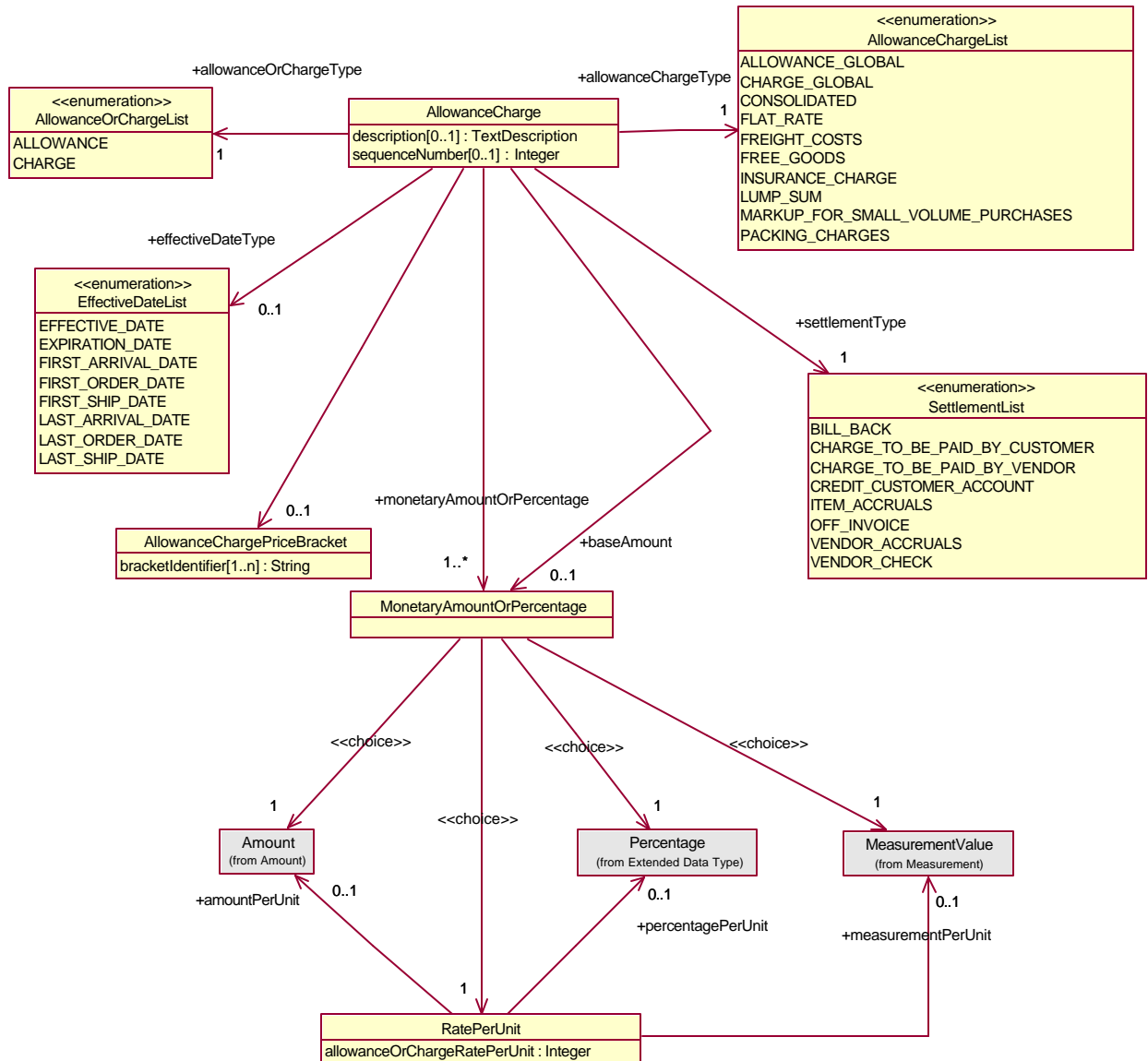
OFF\_INVOICE - The allowance or charge being deducted from the gross invoice amount. The allowance or charge amount will be reflected in the total transaction amount, e.g., total invoice amount = merchandise price + charges – allowances.

VENDOR\_CHECK - The settlement will be a vendor check and the amount will not be reflected in the total invoice amount.

VENDOR\_ACCRUALS - An increase related to a vendor.

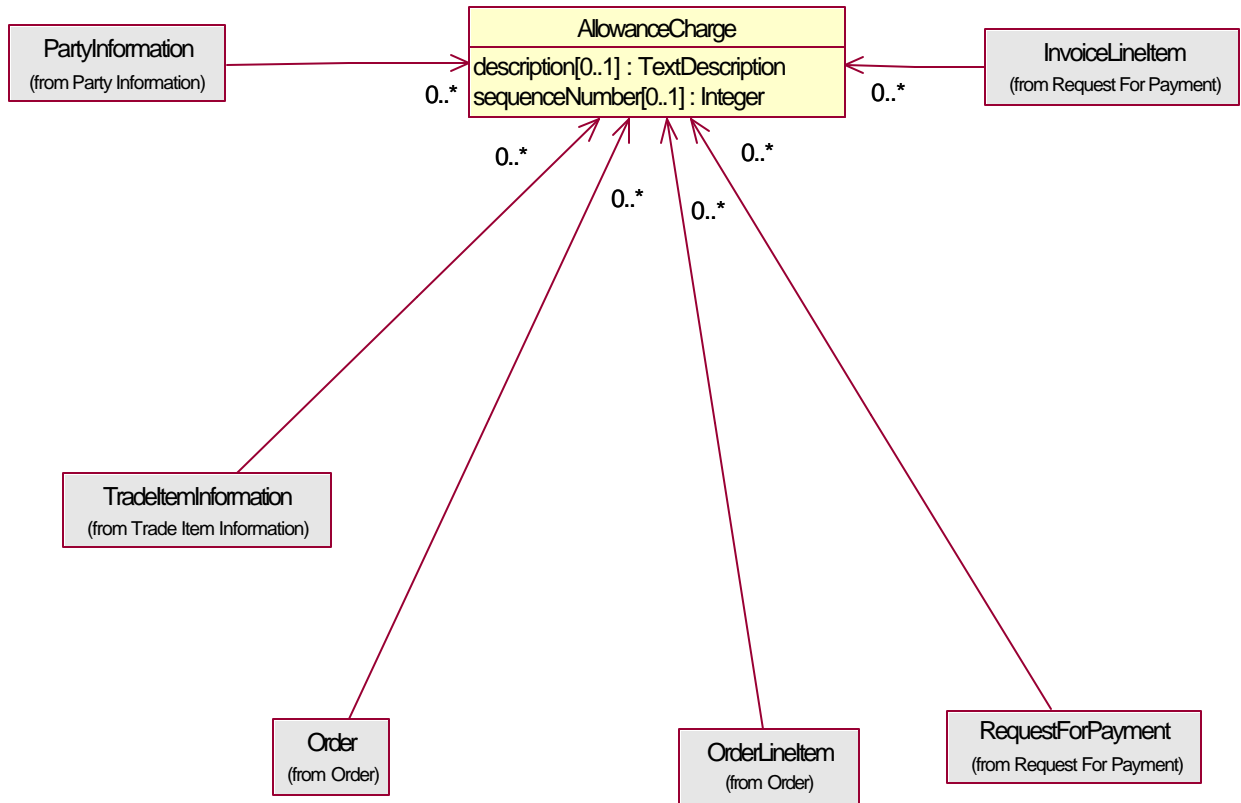
## Appendix 1 Class Diagram for Allowance Charge

### Business Process: Order: Terms: Allowance Charge



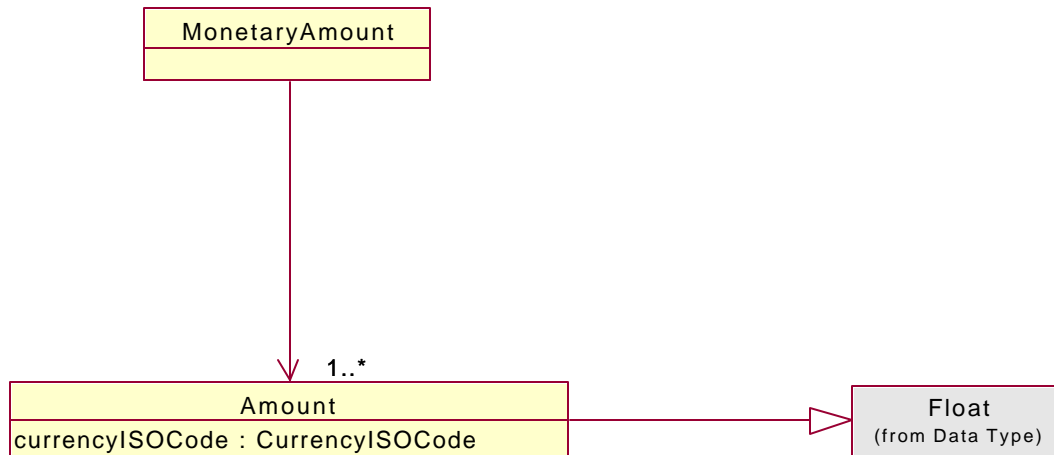
## Appendix 2 Class Diagram for Allowance Charge Relationship

### Business Process: ORDER: Terms: Allowance Charge Relationship



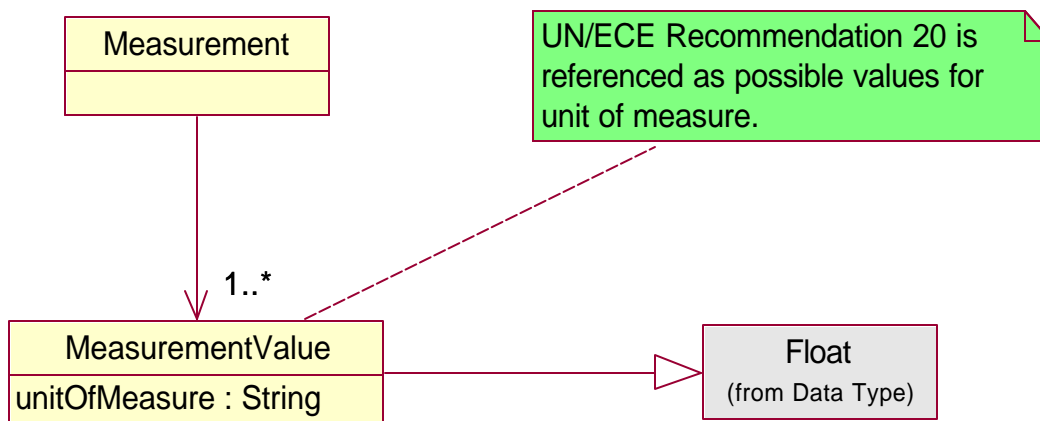
### Appendix 3 Class Diagram for Amount

#### Common Library: Common: Components: Amount



### Appendix 4 Class Diagram for Measurement

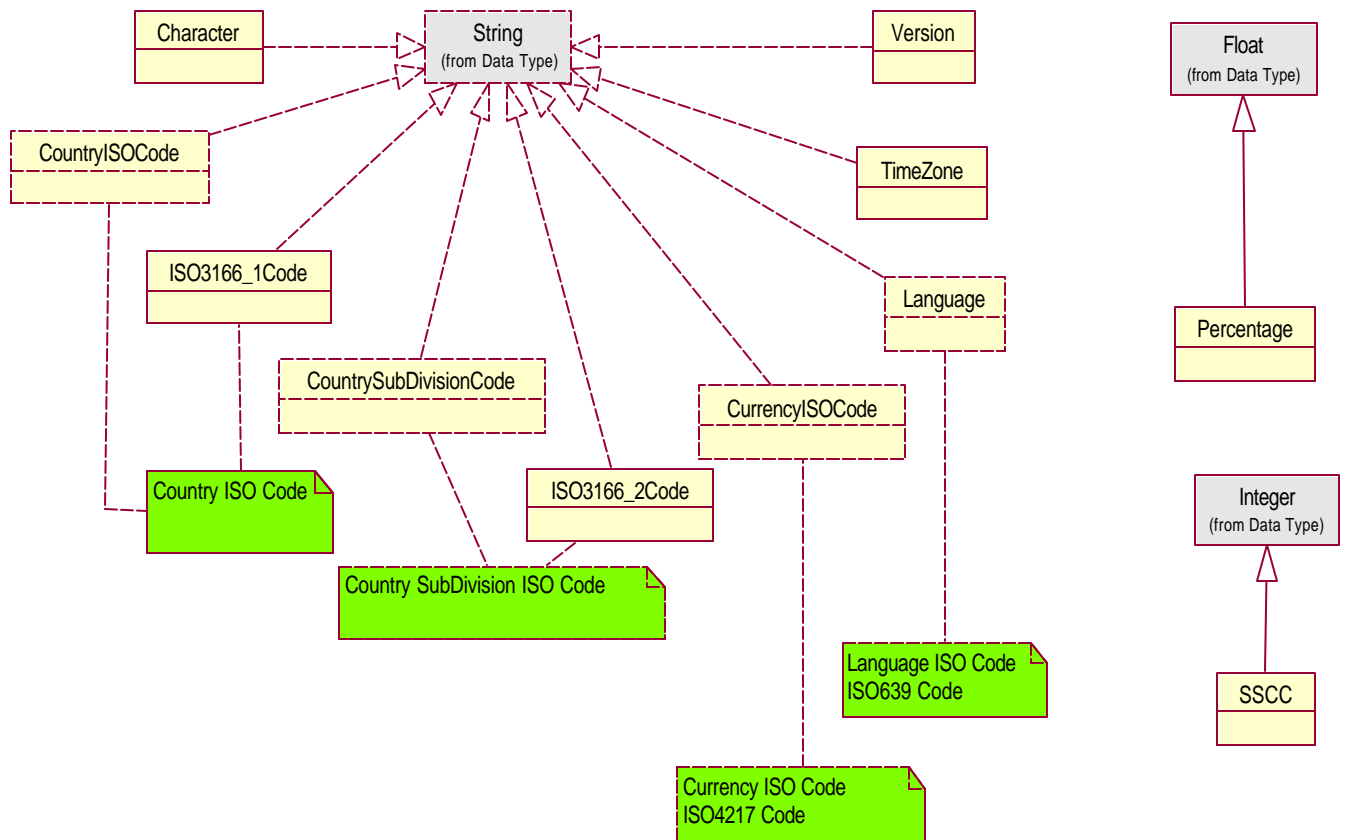
#### Common Library: Common: Components :Measurement





## Appendix 5 Class Diagram for Extended Data Type

### Common Library: Common: Extended Data Type



## **Style Sheet**

### **Description**

A Style Sheet has not been provided with this Business Message Standard due to the fact that the Allowance Charge is not a separate message, but is in fact called by other messages.

## Global Data Dictionary

## Allowance Charge Class Data Descriptions v1.3.1

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
AllowanceCharge				Allowance Charge is the root of the class diagram. This is a mandatory association to the Allowance Or Charge List with a role of allowance or charge type to select 'allowance' or 'charge'. There are two associations to the Monetary Amount or Percentage class with role names of monetary amount or percentage (mandatory with possible multiple occurrence) and base amount optional. Allowance Charge class has two attributes: - Description - Sequence number		M	
			description	A text explanation of the allowance or charge. description is optional.		O	
			sequenceNumber	A unique number used to indicate the order in which the allowances or charges are to be calculated.		O	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
AllowanceChargeList	allowanceChargeType			<p>Allowance Charge Type is required to identify the allowance or charge and is mandatory. This class has the following attributes:</p> <ul style="list-style-type: none"> <li>- Allowance global</li> <li>- Charge global</li> <li>- Consolidated</li> <li>- Flat rate</li> <li>- Free Goods</li> <li>- Freight Costs</li> <li>- Insurance Charge</li> <li>- Lump sum</li> <li>- Markup for small volume purchases</li> <li>- Packing charges</li> </ul>		M	
		ALLOWANCE_GLOBAL		An allowance applicable to the total invoice as well as applicable to the item.			
		CHARGE_GLOBAL		A charge applicable to the total invoice as well as applicable to the item.			
		CONSOLIDATED		The amount specified is the total of all charges/allowances. Depending on specification of allowance/charge on item and/or on the total invoice, there has to be specified a consolidated amount for both the item and total invoice levels.			
		FLAT_RATE		Allowance or charge rate per unit.			

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
		FREE_GOODS		The quantity of goods, which are free of charge.			
		FREIGHT_COSTS		A charge to be paid for moving items, by various means, from one place to another, inclusive discounts, allowances, rebates, adjustment factors and additional cost relating to freight costs, applied to the total invoice.			
		INSURANCE_CHARGE		A charge for insurance, applied to the total invoice.			
		LUMP_SUM		The total allowance amount granted by the seller when the relationship to a specific item and or specific rate is not identifiable.			
		MARKUP_FOR_SMALL_VOLUME_PURCHASES		A charge applicable to the item when the item was ordered under minimum.			
		PACKING_CHARGES		A charge for packing, applied to the total invoice.			
AllowanceChargePriceBracket				This class is used to identify the brackets the allowance or charge is associated to and is optional. This class contains one attribute with possible multiple occurrences: - Bracket identifier		O	
			bracketIdentifier	Identifies bracket		M	
AllowanceOrChargeList	allowanceOrChargeType					M	
		ALLOWANCE		Allowance			
		CHARGE		Charge			

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
Amount	amountPerUnit			This external class originates from Amount. This is a mandatory class to determine the amount submitted. Amount will define the value and the currency for the amount submitted. This class contains one attribute		CM	
			currencyISOCode	Currency ISO Code		M	
EffectiveDateList	effectiveDateType			Effective Date is used only in the data alignment process. It is the allowance or charge effective date and is optional. This class has the following attributes: - Effective date - Expiration date - First arrival date - First order date - First ship date - Last arrival date - Last order date - Last ship date		O	
		EFFECTIVE_DATE		The date on which this event is effective.			
		EXPIRATION_DATE		The latest date the product will be available.			
		FIRST_ARRIVAL_DATE		The first date that the order will arrive.			
		FIRST_ORDER_DATE		The first date the item is available for ordering.			
		FIRST_SHIP_DATE		The first date on which the order can be shipped.			
		LAST_ARRIVAL_DATE		The last date the order will arrive.			

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
		LAST_ORDER_DATE		The last ordered date or discontinued date. The date the item is no longer available for ordering.			
		LAST_SHIP_DATE		The last date on which the order can be shipped.			
MeasurementValue	unitOfMeasure			This external class originates in Measurement and is a class that is used in more than one CPFR class diagram. This class has an attribute unit of measure and allows the value of the measurement	1/15	CM	Components
	totalGrossWeight					M	
	volume					O	
MonetaryAmountOrPercentage	monetaryAmountOrPercentage			This class is required for each allowance or charge through the mandatory monetary amount or percentage role. This is an optional monetary amount or measurement against which an allowance or charge is calculated in the base amount role. There has to be at least one active association of the four associations with Amount, Rate Per Unit, Percentage and Measurement value. There are no attributes.		M	
	baseAmount					O	
Percentage	percentagePerUnit					CM	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
RatePerUnit				If Rate Per Unit is used, the rate per unit is specified as a monetary amount per unit, as a measurement such as a quantity, weight, or dimension, or as a percentage per unit. This class contains one attribute: Allowance Or Charge Rate Per Unit		CM	Terms
			allowanceOrChargeRatePerUnit	Allowance or charge rate per unit.		M	
SettlementList	settlementType			This class is required to specify how the allowance or charge is to be settled and is mandatory. This class has the following attributes: - Bill back - Charge to be paid to customer. - Charge to be paid by vendor Credit customer account Item accruals Off invoice Vender accruals Vendor check		M	Terms
		BILL_BACK		This indicates the buyer will bill back the seller. The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice.			



Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
		CHARGE_TO_BE_PAID_BY_CUSTOMER		A charge that is paid by the customer, and for which the amount is not reflected in the total invoice amount.			
		CHARGE_TO_BE_PAID_BY_VENDOR		A charge that is paid by the vendor, and for which the amount is not be reflected in the total invoice amount.			
		CREDIT_CUSTOMER_ACCOUNT		The settlement will be a credit to the customers account.			
		ITEM_ACCRUALS		An increase related to an item			
		OFF_INVOICE		The allowance or charge being deducted from the gross invoice amount. The allowance or charge amount will be reflected in the total transaction amount, e.g., total invoice amount = merchandise price + charges – allowances.			
		VENDOR_ACCRUALS		An increase related to a vendor.			
		VENDOR_CHECK		The settlement will be a vendor check and the amount will not be reflected in the total invoice amount.			

## **Instance File**

### **Description**

An Instance File has not been provided with this Business Message Standard due to the fact that the Allowance Charge is not a separate message, but is in fact called by other messages.