



# **Business Message Standard (BMS) GDSN Common**

**BMS Release: 2.3.0, BRG Name: GDSN**

***Issue 1.2.0, 10-Sept-2008***

## Document Summary

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Not Applicable		

## Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
02.10.2006	1.0.0	Eric Kauz	Created GDSN Specific Common Library BSD	Updated ISO_0639 Data Type to accept a field length up to 5. Previously unspecified.	
03.03.2006	1.0.1	Eric Kauz	CR 05-000389	Made Target Market Description Optional	
21.03.2006	1.0.2	Eric Kauz		Added External File Link	
21.03.2006	1.0.3	Eric Kauz	IRT Food & Beverage requirement	Added UN_INFOODS_Code to Extended Data Types	CL 8213
07.08.2007	1.1.0	Eric Kauz	GDSN 2.2	07-000171	
13.05.2008	1.2.0	Eric Kauz	GDSN 2.3		

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# 1. Business Domain View

## 1.1. Problem Statement / Business Need

Not Applicable

## 1.2. Objective

The objective to develop this common library is to enable the following.

- Contain and maintain all reusable data elements available in the EAN.UCC BMS Standards.
- Standardize the design and development process to produce consistent and quality products.
- Aids and protects the integrity of the GBM
- Gives visibility to internal development staff and external users to our available reusable components.

## 1.3. Audience

The primary audience for this document are individuals assigned as GS1 Business Process Analysts, Business Requirements Groups Managers, GDD Managers, and XML System Developers who are responsible for the completion and delivery of the Business Message Standards.

## 1.4. References

Reference Name	Description
EAN.UCC Global Business Model (Process and Data), October 1999	EAN.UCC Global Business Model (Process and Data), October 1999
Simple eb(electronic business), March 2000	Simple eb(electronic business), March 2000
GS1 Modeling Best Practices Version 0.6.0 for Publication 2.0	GS1 Modeling Best Practices Version 0.6.0 for Publication 2.0
Eb Methodology	Eb Methodology

## 1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

### 1.5.1. BRG Work Group

Function	Name	Company / organisation
BRG Work Group Chair	Not Applicable	
BRG Work Group Member		

### 1.5.1.1. Design Team Members

Function	Name	Organisation
Modeler	John Ryu/Eric Kauz	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer	John Ryu	GS1

## 2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	All
System Capabilities	All
Official Constraints	None

## 3. Additional Technical Requirements Analysis

### 3.1. Technical Requirements

Number	Statement	Rationale
	Not Applicable	

## 4. Business Transaction View

### 4.1. Business Transaction Use Case Diagram

Not Applicable

### 4.2. Use Case Description

Not Applicable

### 4.3. Business Transaction Activity Diagram(s)

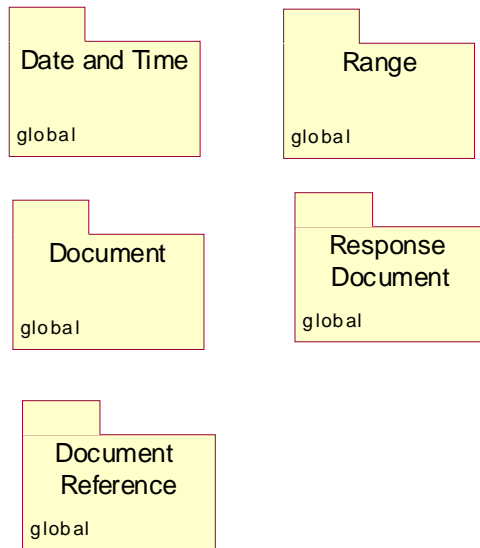
Not Applicable

### 4.4. Business Transaction Sequence Diagram(s) (optional)

Not Applicable

## 5. Information Model (Including GDD Report)

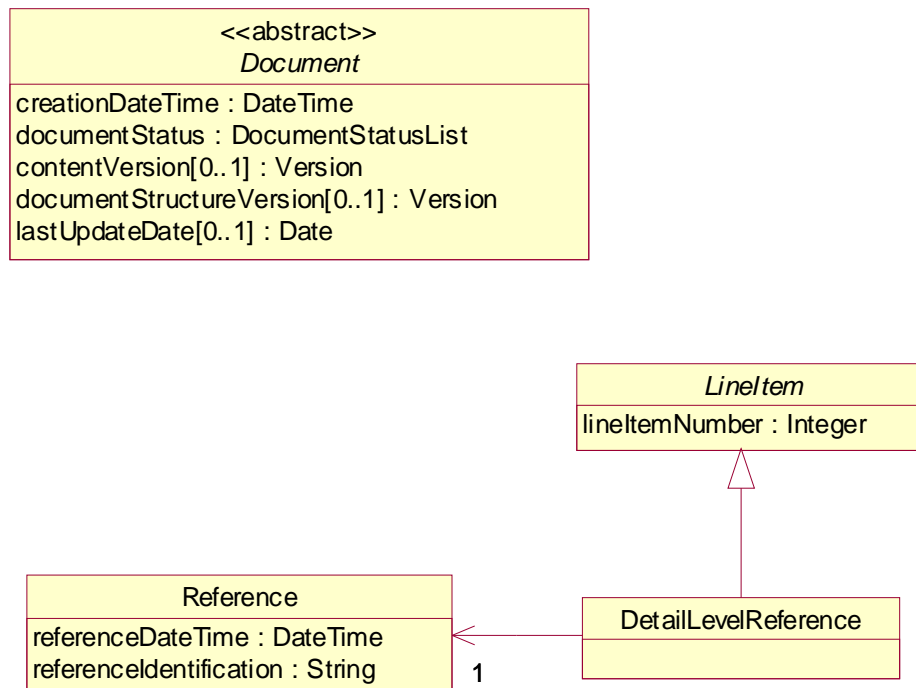
### 5.1. GDD Package Overview: Components





### 5.1.1. Class Diagram: Document

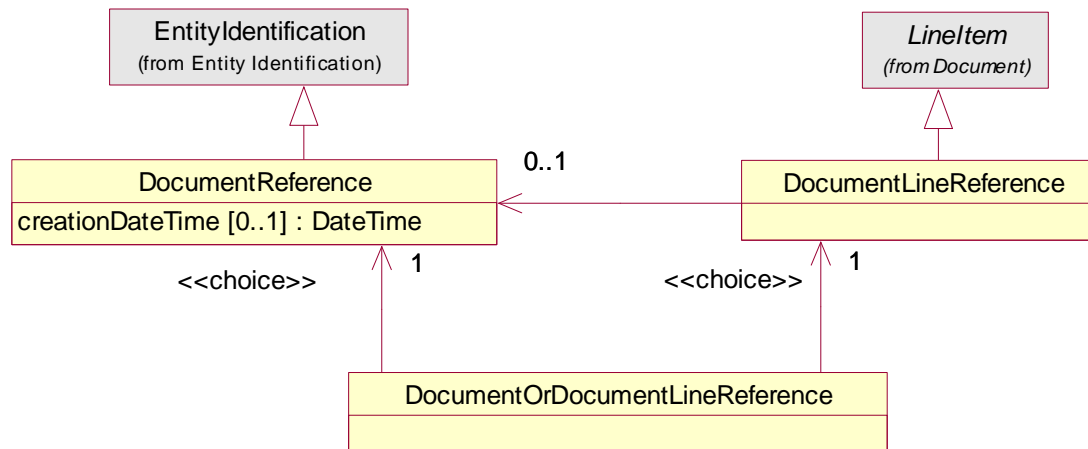
Common Components: Components: Document



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Document				Electronic_Document.Details	Used to specify basic information about the content of the message including version number, creation date and time.	
	contentVersion			Electronic_Document.Content_Version.Identifier	This is a version number for the content of the document.	0..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	creationDateTime			Electronic_Document.Creation_Date.Identifier	This is the date the message was created. The format is 'YYYYMMDDTHHMMSS'. This date is recommended to use as technical information	1..1
	documentStatus			Electronic_Document.Status.Identifier	Indicates if the document is a copy or an original.	1..1
	documentStructureVersion			Electronic_Document.Document_Structure_Version.Identifier	This is a version number for the structure of the document.	0..1
	lastUpdateDate			Electronic_Document.Last_Update_Date.Identifier	This is the last update date for the specific document. The format is 'YYYY-MM-DD'.	0..1
LineItem				Line Item.Details	This external class originates from Document.	
	lineItemNumber			Line Item.Number.Numeric	Sequence number that identifies the line.	1..1

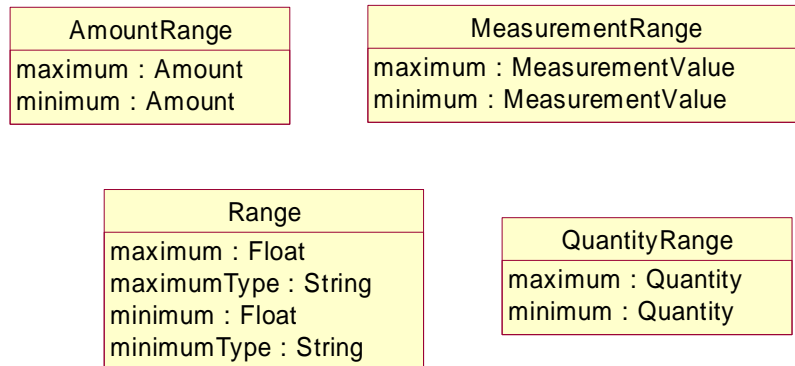
### 5.1.2. Class Diagram: Document Reference



(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
DocumentLineReference				Document Line Reference. Details	Reference to another GS1 Business Message Line.	
		None	DocumentReference	Document Line Reference. Association. Document Reference	Identification of the business document to which the line belongs.	0..1
		None	LinelItem	Document Line Reference. Inheritance. Line Item	Identification of the referenced document line.	1..1
DocumentOrDocumentLineReference				Document Or Document Line Reference. Details	Reference to another GS1 Business Message or Business Message Line.	
		None	DocumentLineReference	Document Or Document Line Reference. Choice_ Association. Document Line Reference	Provides the Document Line Reference information.	1..1

(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		None	DocumentReference	Document Or Document Line Reference. Choice_Association. Document Reference	Provides the Document Reference information.	1..1
DocumentReference				Document Reference. Details	Reference to another GS1 Business Document.	
	creationDateTime			Document Reference. Creation_Date Time. Date Time	Date and time of creation of the referenced document.	0..1
		None	EntityIdentification	Document Reference. Association. Entity Identification	Identification of the referenced business document.	1..1
Reference				Entity Reference. Details	None	
	referenceDateTime			Entity Reference. Date. Code	The date, time or date time related to a referenced document or message.	1..1
	referenceIdentification			Entity Reference. Identification. Code	Unique identification of the entity referenced.	1..1

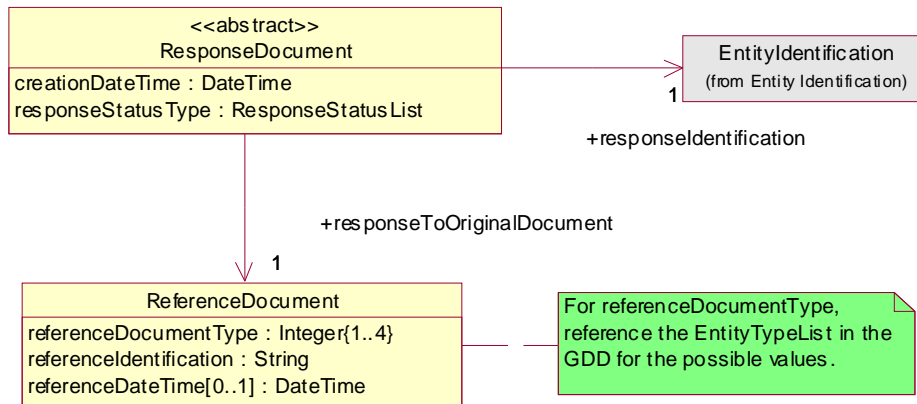
### 5.1.3. Class Diagram: Range



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AmountRange				Amount Range. Details	Provides the difference or interval between the minimum and maximum value amount including the associated currency.	
	maximum			Amount Range. Maximum Amount. Amount	Defines the upper limit required to qualify for the price amount. This attribute may occur multiple times within the same Price Bracket Identification to describe different range criteria. Bracket Range Minimum and/or Bracket Range Maximum is mandatory.	1..1
	minimum			Amount Range. Minimum Amount. Amount	Defines the lower limit required to qualify for the price amount. This attribute may occur multiple times within the same Price Bracket Identification to describe different range criteria. Bracket Range Minimum and/or Bracket Range Maximum is mandatory.	1..1
MeasurementRange				Measurement Range. Details	Provides the difference or interval between the minimum and maximum measurement including the associated unit of measure.	
	maximum			Measurement Range.	Specifies the upper limit of the measurement	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Maximum Measure. Measure	range.	
	minimum			Measurement Range. Minimum Measure. Measure	Specifies the lower limit of the measurement range.	1..1
QuantityRange				Quantity Range. Details	Provides the difference or interval between the minimum and maximum value which may include the associated unit of measure.	
	maximum			Quantity Range. Maximum. Quantity	Specifies the upper limit of the quantity range.	1..1
	minimum			Quantity Range. Minimum. Quantity	Specifies the lower limit of the quantity range.	1..1
Range				Range_ Range Group. Details	Provides the difference or interval between the minimum and maximum value.	
	maximum			Range_ Range Group. maximum_ value. Numeric	Specifies the upper limit of the quantity range.	1..1
	maximumType			Range_ Range Group. maximum_ Type. Numeric	Identifies the type of measurement the range is expressed in.	1..1
	minimum			Range_ Range Group. minimum_ value. Numeric	Specifies the lower limit of the quantity range.	1..1
	minimumType			Range_ Range Group. minimum_ Type. Numeric	A code that identifies the unit of measure of the range lower limit.	1..1

### 5.1.4. Class Diagram: Response Document



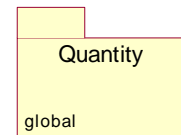
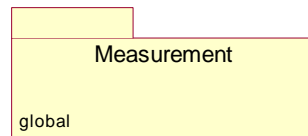
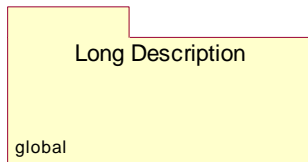
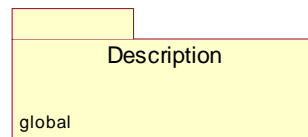
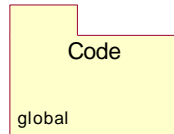
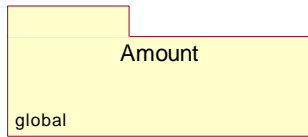
### CL: Response Document

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ReferenceDocument				Reference Document. Details	Contains the identification and date of the document referenced.	
	referenceDateTime			Reference Document. Reference Date Time. Date Time	Provides the date and optional time for referenced document.	0..1
	referenceDocumentType			Reference Document. Type. Numeric	Unique type of document referenced.	1..1
	referenceIdentification			Reference Document. Identification. Text	Unique identification of the document referenced.	1..1
ResponseDocument				Response Document. Details	Specifies the type of response and the information of the referenced document.	
	creationDateTime			Response Document. Creation Date Time. Date Format_ Code	The date and time the response document was created.	1..1

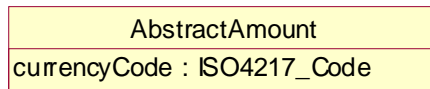
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	responseStatusType			Response Document. Response Status Type. Code	Unique type of response to a document referenced.	1..1
		responseIdentification	EntityIdentification	Response Document. Response Identification_ Association. Entity Identification	The identification of the response document.	1..1
		responseToOriginalDocument	ReferenceDocument	Response Document. Association. Reference Document	Contains the identification and date of the original document referenced.	1..1



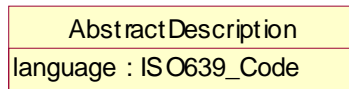
### 5.1.5. Package Overview: Compound Data Type



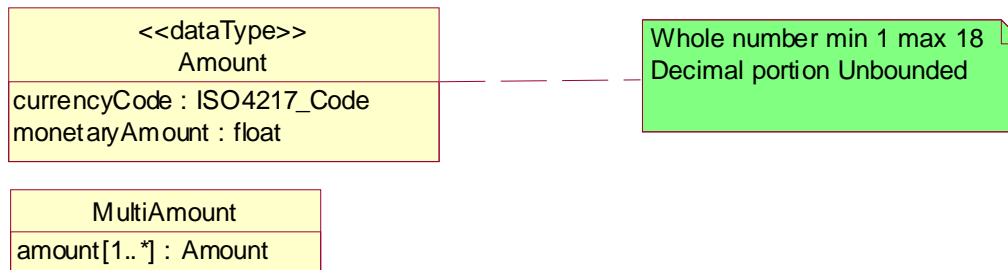
### 5.1.6. Class Diagram Abstract Amount



### 5.1.7. Class Diagram: Abstract Description

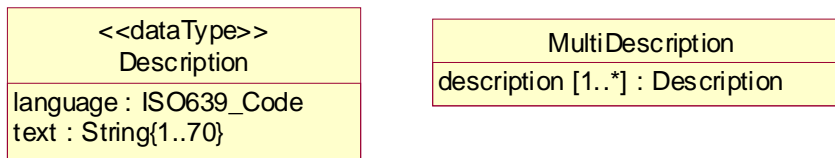


### 5.1.8. Class Diagram: MultiAmount



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiAmount				Multi-currency Amount. Details	Provides multiple iterations of monetary amount and an associated currency code.	
	amount			Multi-currency Amount. Amount. Numeric	Quantity of money	1..*

### 5.1.9. Class Diagram: Description



ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiDescription				Multi Description. Details	Provides multiple iterations of descriptive text with a maximum length of 70 and an associated language code.	
	description		Multi Description. Description. Text	A systematic means of communicating by the use of sounds or conventional symbols.		1..*

### 5.1.10. Class Diagram: Description 2500

Description2500  
language : ISO639\_Code  
text : String{1..2500}

MultiDescription2500  
description[1..\*] : Description2500

(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiDescription2500				Multi Description 2500. Details	Provides multiple iterations of descriptive text with a maximum length of 2500 and an associated language code.	
	description			Multi Description 2500. Description. Text	A systematic means of communicating by the use of sounds or conventional symbols.	1..*

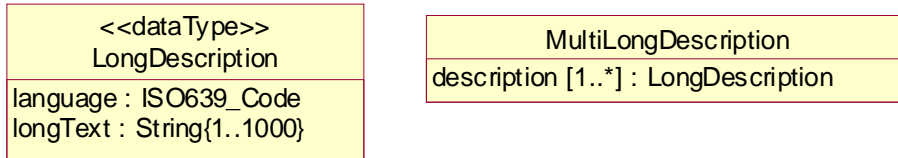
### 5.1.11. Class Diagram: Description 5000

Description5000  
language : ISO639\_Code  
text : String{1..5000}

MultiDescription5000  
description[1..\*] : Description5000

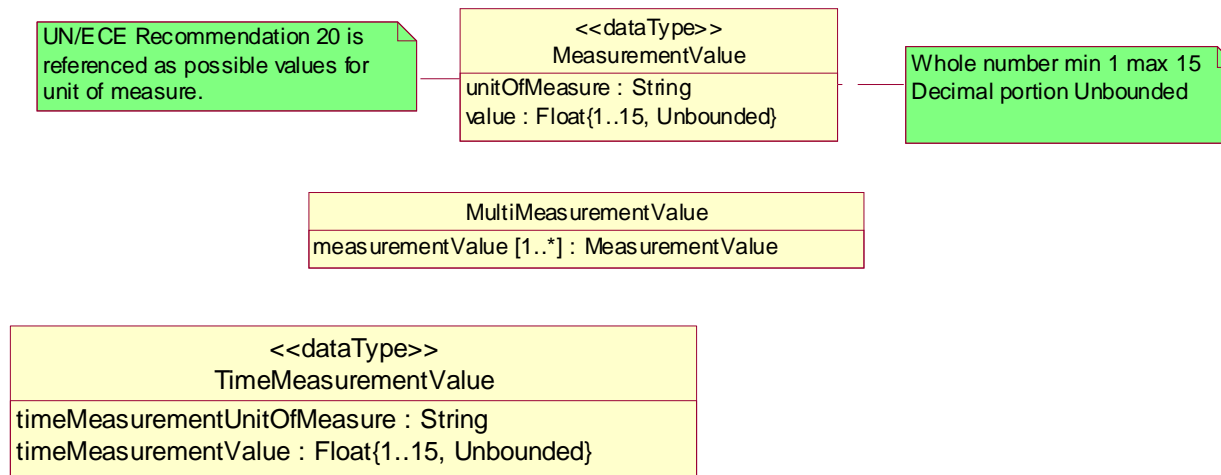
(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiDescription5000				Multi Description 5000. Details	Provides multiple iterations of descriptive text with a maximum length of 5000 and an associated language code.	
	description			Multi Description 5000. Description. Text	A systematic means of communicating by the use of sounds or conventional symbols	1..*

### 5.1.12. Class Diagram: Long Description



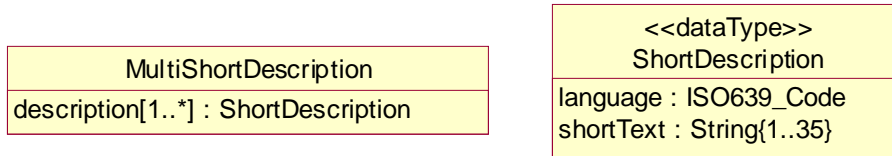
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiLongDescription				Multi Long Description. Details	Provides multiple iterations of descriptive text with a maximum length of 1000 and an associated language code.	
	description			Multi Long Description. Description. Text	A systematic means of communicating by the use of sounds or conventional symbols	1..*

### 5.1.13. Class Diagram: Measurement



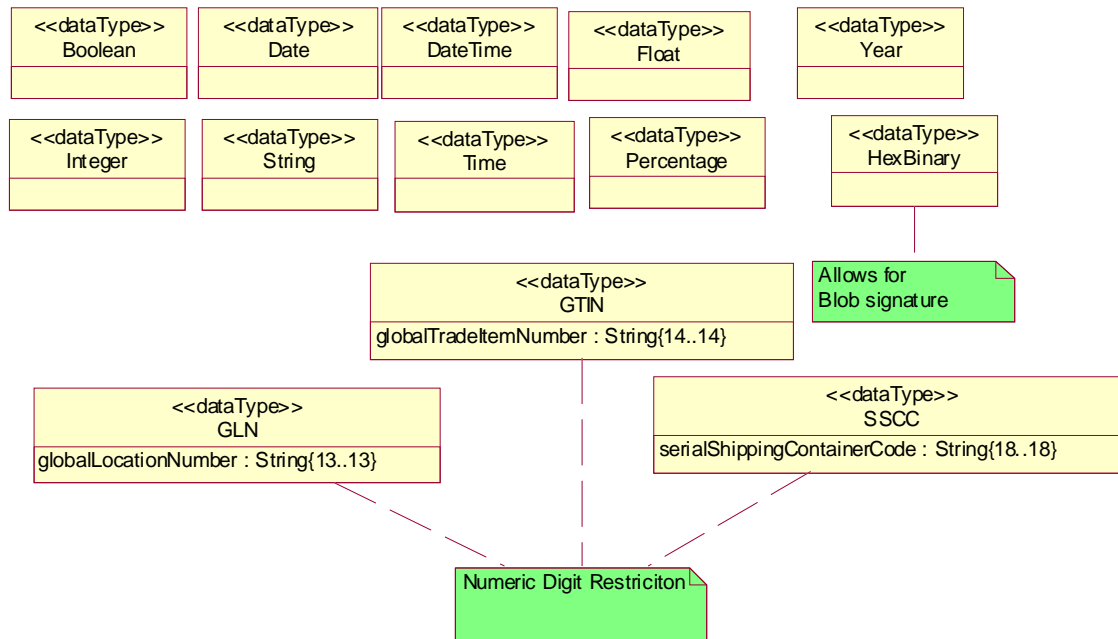
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiMeasurementValue				Multi Measurement Value. Details	Provides multiple iterations of measurement value and an associated unit of measure code.	
	measurementValue			Multi Measurement Value. Measurement Value. Measure	Provides the measurement value with the corresponding unit of measure.	1..*

### 5.1.14. Class Diagram: Short Description



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
MultiShortDescription				Short_ Multi-language Description. Details	Allows for the expression of text no greater than 35 characters in multiple languages.	
	description			Short_ Multi-language Description. Text	A systematic means of communicating by the use of sounds or conventional symbols.	1..*

### 5.1.15. Class Diagram: Data Type

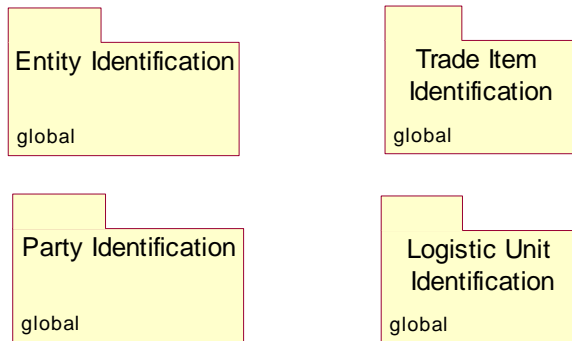




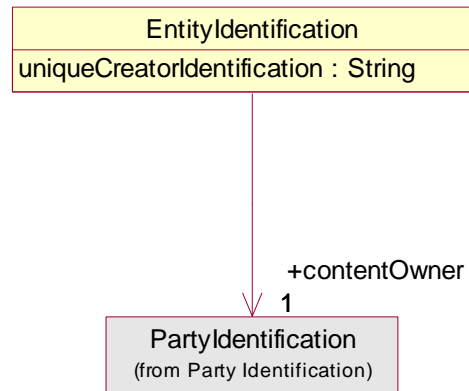
### 5.1.16. Class Diagram: Extended Data Type



### 5.1.17. Package Overview: Identification

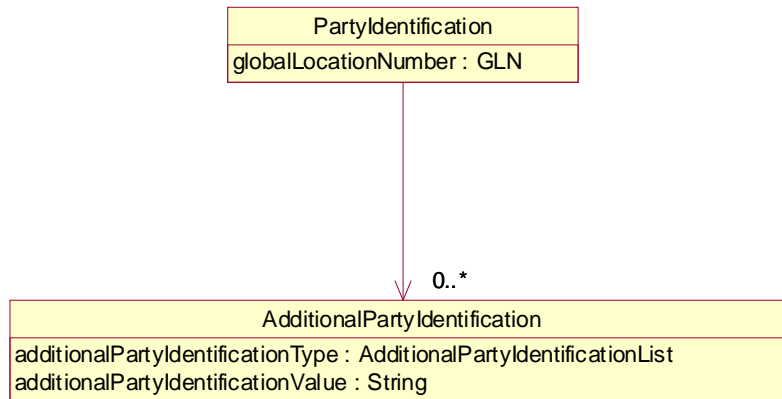


### 5.1.18. Class Diagram Identification: Entity Identification



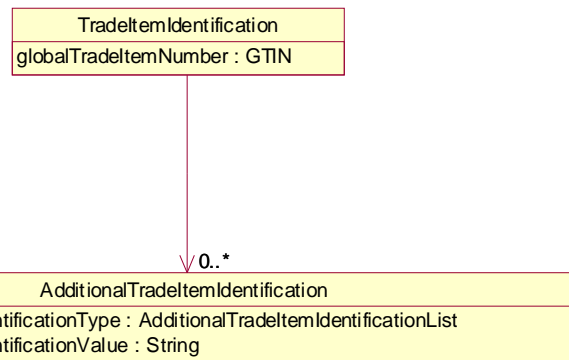
(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
EntityIdentification				Entity Identification. Details	The unique identification of a document.	
	uniqueCreatorIdentification			Entity Identification. Identification. Identifier	The unique creator identification for the message.	1..1
		contentOwner	PartyIdentification	Entity Identification. Content Owner. Party Identification	Uniquely identifies the creator of the instance document.	1..1

### 5.1.19. Class Diagram: Identification: Party Identification



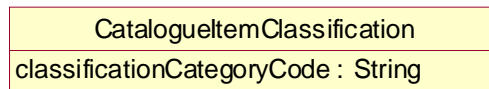
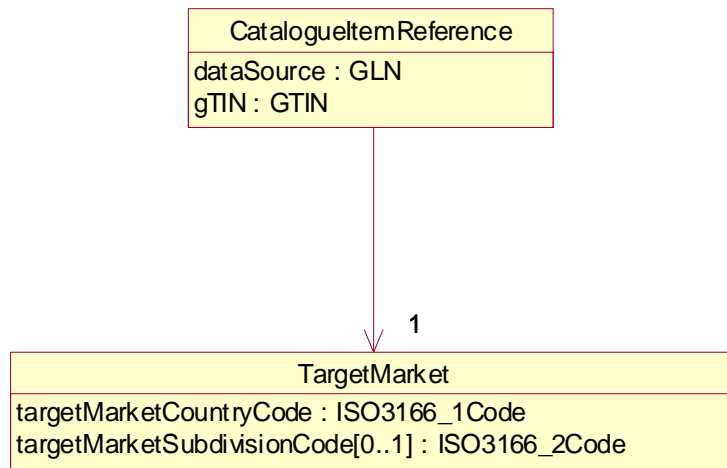
(ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AdditionalPartyIdentification				Non GLN_ Party Identification. Details	Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.	
	additionalPartyIdentificationType			Non GLN_ Party Identification. Identification Type. Code	Identification of a party by use of a code other than the Global Location Number.	1..1
	additionalPartyIdentificationValue			Non GLN_ Party Identification. Identification. Code	A party identifier that is in addition to the GLN.	1..1
PartyIdentification				Party Identification. Details	Unique location number identifying the Party for which the rest of the message defines.	
	globalLocationNumber			Party Identification. Primary Identification. GLN_ Identifier	The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the primary party identifier. Each party identified in the trading relationship must have a primary party Identification.	1..1
		None	AdditionalPartyIdentification	Party Identification. Additional. Non GLN_ Party Identification	Provides the optional additional formats of party identification	0..*

## 5.1.20. Class Diagram: Identification: Trade Item Identification



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AdditionalTradeltemIdentification				Non GTIN_ Trade Item Identification. Details	This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one to one relationship.	
	additionalTradeltemIdentificationType			Non GTIN_ Trade Item Identification. Identification Type. Code	Type of the identification system that is being used as an alternative to the Global Trade Item Number.	1..1
	additionalTradeltemIdentificationValue			Non GTIN_ Trade Item Identification. Additional Trade Item Identification Value_ additional Trade Item Identification. Code	Alternative means to the Global Trade Item Number to identify a trade item.	1..1
TradeltemIdentification				Trade Item Identification. Details	Provides the GTIN as the unique identifier for the item and optionally additional formats of non GTIN identifiers for the item.	
	globalTradeltemNumber			Trade Item Identification. Primary_ Identification. GTIN_ Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1
		None	AdditionalTradeltemIdentification	Trade Item Identification. Additional. Non GTIN_ Trade Item Identification	This information on AdditionalTradeltemIdentification for TradeltemIdentification.	0..*

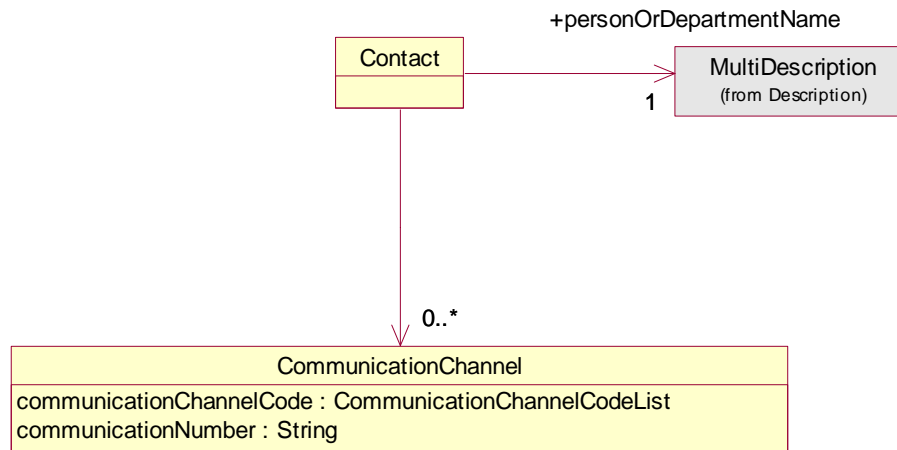
### 5.1.21. Class Diagram: Catalogue Item Common



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CatalogueItemClassification				GPC_ Product Classification. Details	A classification schema is an Industry accepted, standardized method to group like products together so that global searches can be enabled.	
	classificationCategoryCode			GPC_ Product Classification. Class. Text	A code that identifies a category in the GPC product classification	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CatalogueItemReference				Catalogue Item Identification. Details	A class of information used to identify the key to the trade item information using the data source GLN, the GTIN, and the Target Market within the Global Data Synchronisation Network.	
	dataSource			Catalogue Item Identification. Data Source_ Party. GLN_ Identifier	Entity that provides the global data synchronization network with Master Data. The Data Source is officially recognized as the owner of this data. For a given Item or Party, the source of data is responsible for permanent updates of the information under its responsibility.	1..1
	gTIN			Catalogue Item Identification. GTIN_ Identification. GTIN_ Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1
		None	TargetMarket	Catalogue Item Identification. Association. Target Market	Provides the target market information.	1..1
TargetMarket				Target Market. Details	The Target Market is a geographical region based upon geographical boundaries sanctioned by the United Nations. There is one international system to describe geographical regions, the ISO-3166-code system.	
	targetMarketCountryCode			Target Market. Market Country. Code	The code that identifies the target market. The target market is at country level or higher geographical definition and is where a trade-item is intended to be sold.	1..1
	targetMarketSubdivisionCode			Target Market. Market Subdivision. Code	The Code for country sub-division definition used to indicate the geo-political subdivision of the target market (=country ).	0..1

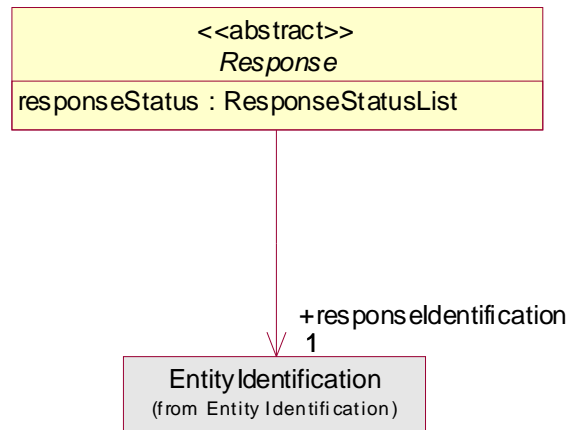
## 5.1.22. Contact



Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CommunicationChannel				Communication Channel. Details	The channel or manner in which a communication can be made, such as telephone or email.	
	communicationChannelCode			Communication Channel. Communication Channel. Text	Means used to communicate with another party.	1..1
	communicationNumber			Communication Channel. Communication Number. Text	Number assigned to a specific means of communication.	1..1
Contact				Contact. Details	The name and associated communication channel of a given party or organisation.	
		None	CommunicationChannel	Contact. Association. Communication Channel	This information on CommunicationChannel for Contact.	0..*
		personOrDepartmentName	MultiDescription	Contact. Person or Department_ Name. Multi-language Description	The name of a department within this address. The name of the individual or department that can be contacted to provide additional information.	1..1



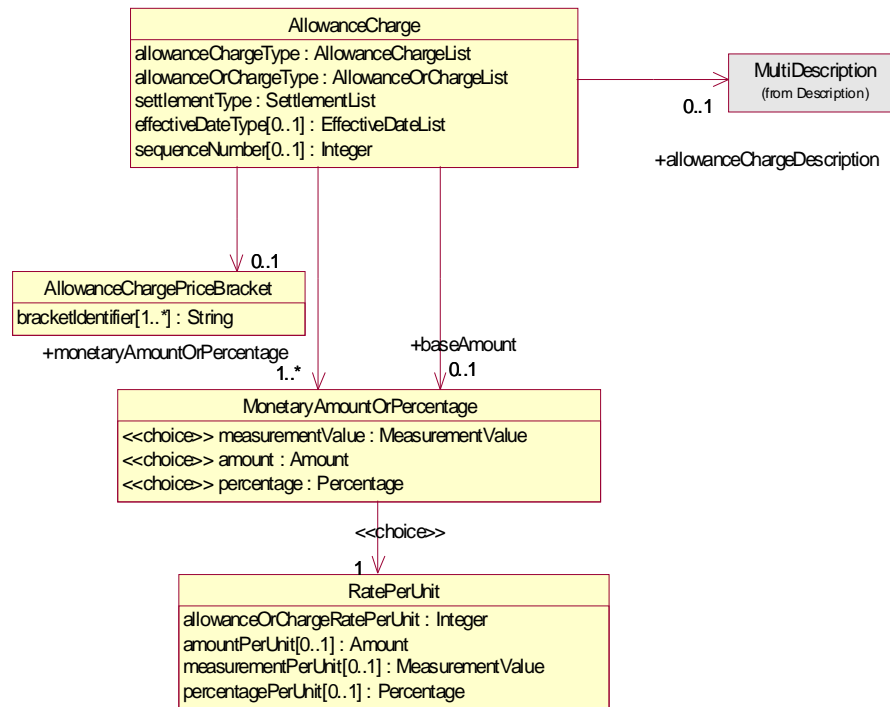
### 5.1.23. Class Diagram: Response



#### CL: Response v1.0

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Response				Response. Details		
	responseStatus			Response. Status. Code	Indicates whether a response was accepted or not, or whether it was modified.	1..1
		responselidentification	EntityIdentification	Response. Identification. Entity Identification	The identification of the response document.	1..1

## 5.1.24. Class Diagram: Allowance Charge



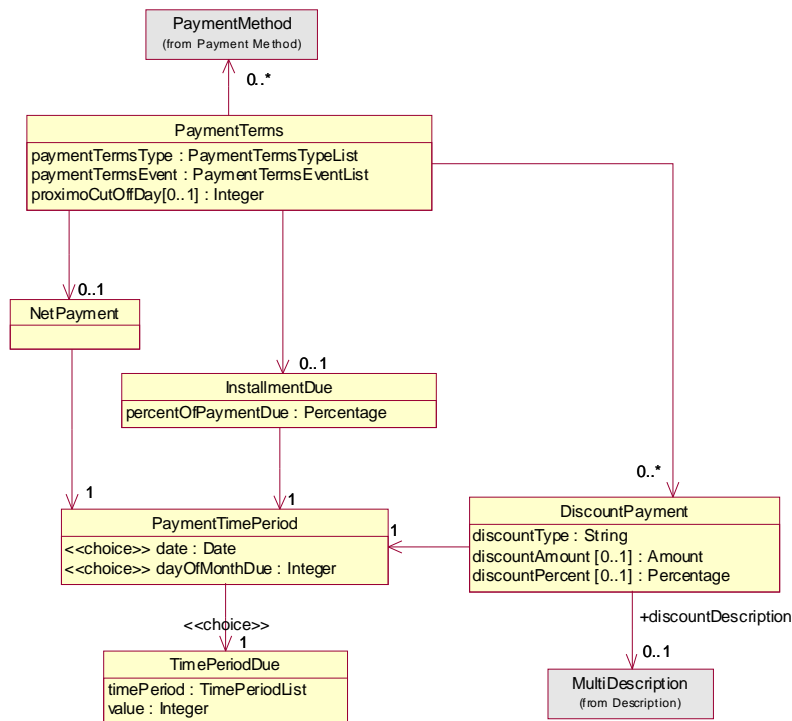
### CL: Allowance Charge v1.0

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AllowanceCharge				Allowance Charge. Details	!! Specifies allowances and charges specified to wither the entire message or to individual line items contained in the message.	
	allowanceChargeType			Allowance Charge. Allowance Charge_ Type. Indicator	The identification of an allowance charge selected from a predefined list. Also see Allowance Charge List.	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	allowanceOrChargeType			Allowance Charge. Allowance Or Charge_ Type. Indicator	The identification of either an allowance or a charge selected from the allowance or charge list.	1..1
	effectiveDateType			Allowance Charge. Effective_ Date Type. Indicator	The date on which this event is effective	0..1
	sequenceNumber			Allowance Charge. Sequence Number. Integer_ Numeric	A unique number used to indicate the order in which the allowances or charges are to be calculated.	0..1
	settlementType			Allowance Charge. Settlement_ Type. Indicator	The identification of a type of settlement selected from a predetermined list of types. Also see Allowance Charge List.	1..1
		None	AllowanceChargePriceBracket	Allowance Charge. Association. Allowance Charge_ Price Bracket	This information on AllowanceChargePriceBracket for AllowanceCharge.	0..1
		None	MonetaryAmountOrPercentage	Allowance Charge. Monetary Amount Or Percentage. Amount Percent Group	The amount of the allowance charge expressed as a measurement value, amount or percent.	1..*
		baseAmount	MonetaryAmountOrPercentage	Allowance Charge. Base Amount. Amount Percent Group	The amount of the allowance charge expressed as a measurement value, amount or percent.	0..1
		allowanceChargeDescription	MultiDescription	Allowance Charge. Allowance Charge_ Description. Multi-language Description	A text explanation of the allowance or charge. description is optional	0..1
AllowanceChargePriceBracket				Allowance Charge_ Price Bracket. Details		
	bracketIdentifier			Allowance Charge_ Price Bracket. Description. Indicator	A code that identifies a price bracket.	1..*
MonetaryAmountOrPercentage				Amount Percent Group. Details		
	amount			Amount Percent Group. Choice_ Amount. Numeric	used to indicate an allowance or charge applied against a given other amount	1..1
	measurementValue			Amount Percent Group. Choice_ Measurement. Numeric	used to indicate an allowance or charge applied against a given measurement or quantity	1..1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	percentage			Amount Percent Group. Choice_ Percentage. Numeric	Allowance and charges can be expressed in different ways. By using percentage, they are expressed as a percentage of another amount, e.g. the base amount.	1..1
		None	RatePerUnit	Amount Percent Group. Choice_ Association. Allowance Charge Unit Rate	This information on RatePerUnit for MonetaryAmountOrPercentage.	1..1
RatePerUnit				Allowance Charge Unit Rate. Details	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.	
	allowanceOrChargeRatePerUnit			Allowance Charge Unit Rate. Value. Numeric	Allowance/charge per unit expressed as a figure without decimals.	1..1
	amountPerUnit			Allowance Charge Unit Rate. Value. Numeric	Allowance/charge per unit expressed as an amount.	0..1
	measurementPerUnit			Allowance Charge Unit Rate. Value. Numeric	The allowance/charge rate per unit defined as a measurement. E.g. per ton	0..1
	percentagePerUnit			Allowance Charge Unit Rate. Value. Numeric	Allowance/charge per unit expressed as a percentage.	0..1

## 5.1.25. Class Diagram: Payment Terms

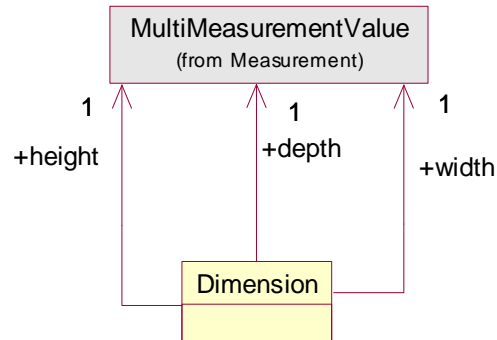


Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
DiscountPayment				Discount_ Payment Due. Details	This class is used to describe the amount for a discounted payment. Zero or more discounts may be specified using this class. The discount amount is expressed as a percent and is based on the number of days by which the payment must be made to earn the discount. For each discount, a time period is required to specify the percent discount earned.	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	discountAmount			Discount_ Payment Due. Discount Amount. Amount	The deduction represented in amount format.	0..1
	discountPercent			Discount_ Payment Due. Percent Of Payment. Numeric	The deduction represented in percentage.	0..1
	discountType			Discount_ Payment Due. Discount Type. Numeric	A code that specifies the type of payment discount.	1..1
		discountDescription	MultiDescription	Discount_ Payment Due. Description. Multi-language Description	A text field describing the discount.	0..1
		None	PaymentTime Period	Discount_ Payment Due. Terms Discount Due. Payment Due	This information on PaymentTimePeriod for DiscountPayment.	1..1
InstallmentDue				Installment_ Payment Due. Details	This class is used to specify the percentage amount of the payment due for the defined PaymentTimePeriod.	
	percentOfPayment Due			Installment_ Payment Due. Percent Of Payment. Percent_ Numeric	specifies the exact amount of the payment due this payment period. The amount is expressed as a percent. The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as 10.5.	1..1
		None	PaymentTime Period	Installment_ Payment Due. Payment Time Period. Payment Due	This information on PaymentTimePeriod for InstallmentDue.	1..1
NetPayment				Net_ Payment Due. Details	If used, a time period is required to specify when the payment is due.	
		None	PaymentTime Period	Net_ Payment Due. Association. Payment Due	The time period in which a payment is due may be specified in one of three ways:	1..1
PaymentTerms				Payment Terms. Details	This class is the root class for the message.	
	paymentTermsEvent			Payment Terms. Event Type. Payment Terms Event_ Code	Provides the payment terms event from a code list.	1..1
	paymentTermsType			Payment Terms. Payment Terms Type. Payment Terms_ Code	Required to define specific payment terms.	1..1
	proximoCutoffDay			Payment Terms. Proximo Cutoff Day. DD_ Date Time	This class is used in conjunction with the payment term 'Proximo'. It contains a numeric value for the day of the month.value – The day of the month payment becomes due. value is mandatory.	0..1
		None	DiscountPayment	Payment Terms. Association. Discount_ Payment Due	This information on DiscountPayment for PaymentTerms.	0..*

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		None	InstallmentDue	Payment Terms. Association. Installment_ Payment Due	This information on InstallmentDue for PaymentTerms.	0..1
		None	NetPayment	Payment Terms. Association. Net_ Payment Due	This information on NetPayment for PaymentTerms.	0..1
		None	PaymentMethod	Payment Terms. Association. Pay_ Payment Method	This information on PaymentMethod for PaymentTerms.	0..*
PaymentTimePeriod				Payment Due. Details	Provides the payment time period information.	
	date			Payment Due. Choice_ Date. Numeric	The time at which an event occurs, expressed as a day	1..1
	dayOfMonthDue			Payment Due. Choice_ Day Of Month. Numeric	The time at which a payment is due, expressed as a day of the month.	1..1
		None	TimePeriodDue	Payment Due. Choice_ Association. Time Period	A time period, in which a number (the time period) is specified in terms of days, weeks, or months.	1..1
TimePeriodDue				Time Period. Details	The payment time period in which the payment becomes due is expressed as a numeric value.	
	timePeriod			Time Period. Type. Code	The time span within which this event takes place	1..1
	value			Time Period. Length. Duration_ Measure	Numeric value describing the time period in which the payment comes due. value is mandatory.	1..1

## 5.1.26. Dimension



### CL: Dimension

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Dimension				Dimension. Details	Provides the length, width, and depth of an item with their associated unit of measure. The unit of measure may be represented in multiple formats.	
		depth	MultiMeasurementValue	Dimension. Depth_ Association. Multi-unit Measure	The extent; measurement; or dimension downward; backward; or inward.	1..1
		height	MultiMeasurementValue	Dimension. Height. Multi-unit Measure	The vertical dimension from the lowest extremity to the highest extremity.	1..1
		width	MultiMeasurementValue	Dimension. Width. Multi-unit Measure	The measurement of the extent of something from side to side. Width is the measurement from left to right.	1..1



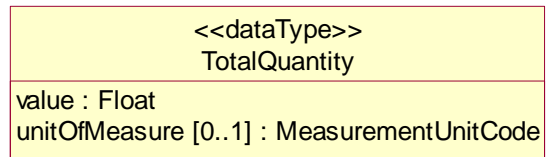
## 5.1.27. Class Diagram: Target Market Information

TargetMarketInformation
targetMarketCountryCode : ISO3166_1Code
targetMarketDescription[0..1] : ShortDescription
targetMarketSubdivisionCode[0..1] : ISO3166_2Code

### CL: Target Market Information

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
TargetMarketInformation				Named_ Target Market. Details	!! This is a reusable class from Trade Item Common and referenced as part of the Trade Item Information class.	
	targetMarketCountryCode			Named_ Target Market. Country. ISO3166_1_ Code	The target market code indicates the country level or higher geographical definition in which the information provider will make the GTIN available to buyers. This Indicator does not in any way govern where the buyer may re-sell the GTIN to consumers.	1..1
	targetMarketDescription			Named_ Target Market. Description. Language_ Text	The name for the specific target market identified with the Target Market Country Code . Target market description is composed of both text and a language code. The description will be generated from the ISO 3166-1 code list. The language code will be generated from the ISO 639 code list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..1
	targetMarketSubdivisionCode			Named_ Target Market. Subdivision. ISO3166_2_ Code	The Target Market Subdivision Code is the secondary code of the Target Market and must be a subdivision of a Target Market Country Code. The Target Market Subdivision Code describes the "geo-political subdivision of a country" where the trade item is available for sale, as determined by the information provider. For example, "State" in the US, "Land" in Germany, "Region" in France, or "Province" in Canada. Not all countries have subdivisions. This code is represented by the three-character ISO 3166-2 code. This Target Market Subdivision Code is a dependent attribute. It is important to note that the lack of the Target Market Subdivision code implies that the trade item is available in the entire target market country.	0..1

### 5.1.28. Class Diagram: Total Quantity



## 5.2. Code Lists

### 5.2.1. Additional Party Identification List

Code Name	Code Value
BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	N/A
DEA_DRUG_ENFORCEMENT_AGENCY	N/A
DUNS	N/A
DUNS_PLUS_FOUR	N/A
FOR_INTERNAL_USE_1	N/A
FOR_INTERNAL_USE_10	N/A
FOR_INTERNAL_USE_11	N/A
FOR_INTERNAL_USE_12	N/A
FOR_INTERNAL_USE_13	N/A
FOR_INTERNAL_USE_14	N/A
FOR_INTERNAL_USE_15	N/A
FOR_INTERNAL_USE_16	N/A
FOR_INTERNAL_USE_17	N/A
FOR_INTERNAL_USE_18	N/A
FOR_INTERNAL_USE_19	N/A
FOR_INTERNAL_USE_2	N/A
FOR_INTERNAL_USE_20	N/A
FOR_INTERNAL_USE_3	N/A
FOR_INTERNAL_USE_4	N/A
FOR_INTERNAL_USE_5	N/A
FOR_INTERNAL_USE_6	N/A
FOR_INTERNAL_USE_7	N/A
FOR_INTERNAL_USE_8	N/A
FOR_INTERNAL_USE_9	N/A
HIN_CANADIAN_HEALTHCARE_IDENTIFICATION_NUMBER	N/A
SCAC	N/A
SELLER_ASSIGNED_IDENTIFIER_FOR_A_PARTY	N/A
SIRET	N/A
TD_LINK_TRADE_DIMENSIONS	N/A
UCC_COMMUNICATION_IDENTIFICATION	N/A
UNKNOWN	N/A
UN_LOCATION_CODE	N/A
USDA_ESTABLISHMENT_NUMBER	N/A

## 5.2.2. Additional Trade Item Identification List

Code Name	Code Value
BUYER_ASSIGNED	N/A
DISTRIBUTOR_ASSIGNED	The additional Trade Item Identification value populated has been developed and assigned by an entity which purchases and takes title to goods which are then resold / redistributed elsewhere.
FOR_INTERNAL_USE_1	N/A
FOR_INTERNAL_USE_10	N/A
FOR_INTERNAL_USE_11	N/A
FOR_INTERNAL_USE_12	N/A
FOR_INTERNAL_USE_13	N/A
FOR_INTERNAL_USE_14	N/A
FOR_INTERNAL_USE_15	N/A
FOR_INTERNAL_USE_16	N/A
FOR_INTERNAL_USE_17	N/A
FOR_INTERNAL_USE_18	N/A
FOR_INTERNAL_USE_19	N/A
FOR_INTERNAL_USE_2	N/A
FOR_INTERNAL_USE_20	N/A
FOR_INTERNAL_USE_3	N/A
FOR_INTERNAL_USE_4	N/A
FOR_INTERNAL_USE_5	N/A
FOR_INTERNAL_USE_6	N/A
FOR_INTERNAL_USE_7	N/A
FOR_INTERNAL_USE_8	N/A
FOR_INTERNAL_USE_9	N/A
INDUSTRY_ASSIGNED	N/A
SUPPLIER_ASSIGNED	The additional Trade Item Identification value populated has been developed and assigned by the party which provides service(s) and/or manufactures or otherwise has possession the goods and consigns or makes them available in trade.

### 5.2.3. Allowance Charge List

Code Name	Code Value
ALLOWANCE_GLOBAL	N/A
CHARGE_GLOBAL	N/A
CONSOLIDATED	N/A
FLAT_RATE	N/A
FREE_GOODS	N/A
FREIGHT_COSTS	N/A
INSURANCE_CHARGE	N/A
LUMP_SUM	N/A
MARKUP_FOR_SMALL_VOLUME_PURCHASES	N/A
PACKING_CHARGES	N/A
SORTING	Code used by the trading partners to communicate sorting allowances or charges that result from organizing returnable items or assets such as glass bottles, pallet platforms, etc.

### 5.2.4. Allowance or Charge List

Code Name	Code Value
ALLOWANCE	N/A
CHARGE	N/A

### 5.2.5. Communication Channel Code List

Code Name	Code Value
EMAIL	N/A
TELEFAX	N/A
TELEPHONE	N/A
WEBSITE	N/A

### 5.2.6. Days of the Week List

Code Name	Code Value
FRIDAY	N/A
MONDAY	N/A
SATURDAY	N/A
SUNDAY	N/A
THURSDAY	N/A
TUESDAY	N/A
WEDNESDAY	N/A

### 5.2.7. Document Status List

Code Name	Code Value
COPY	N/A
ORIGINAL	N/A
REPLACE	Indicates that the original document that was sent should be replaced with the new document. This is only possible when the original document has not yet been processed in the recipient's application.

### 5.2.8. Effective Date List

Code Name	Code Value
EFFECTIVE_DATE	N/A
EXPIRATION_DATE	N/A
FIRST_ARRIVAL_DATE	N/A
FIRST_ORDER_DATE	N/A
FIRST_SHIP_DATE	N/A
LAST_ARRIVAL_DATE	N/A
LAST_ORDER_DATE	N/A
LAST_SHIP_DATE	N/A

### 5.2.9. Non-Binary Logic Code List

Code Name	Code Value
FALSE	Negative value.
NOT_APPLICABLE	A statement that an affirmative or negative response is not required for the attribute.
TRUE	Affirmative value.
UNSPECIFIED	Value not stated.

### 5.2.10. Payment Method List

Code Name	Code Value
BANK_CHEQUE	N/A
BANK_GIRO	N/A
BANKERS_DRAFT	N/A
BOOKENTRY_CREDIT	N/A
BOOKENTRY_DEBIT	N/A
BOP	N/A
CASH	N/A
CERTIFIED_CHEQUE	N/A
CHEQUE	N/A

Code Name	Code Value
CREDIT_CARD	N/A
DEBIT_CARD	N/A
ELECTRONIC_CREDIT_ACH	N/A
ELECTRONIC_DEBIT_ACH	N/A
FED_WIRE_NON_REPETITIVE	N/A
FED_WIRE_REPETITIVE	N/A
INTERNATIONAL_WIRE	N/A
LETTER_OF_CREDIT	N/A
POSTGIRO	N/A
WIRE_TRANSFER_CREDIT	N/A
WIRE_TRANSFER_DEBIT	N/A

### 5.2.11. Payment Terms Event List

Code Name	Code Value
AFTER_DATE_OF_DELIVERY	N/A
ANTICIPATED_DELIVERY_DATE	N/A
DATE_INVOICE_RECEIVED	N/A
DATE_OF_DELIVERY_TO_SITE	N/A
DATE_OF_INVOICE	N/A
DATE_OF_SHIPMENT_AS_EVIDENCED_BY_TRANSPORT_DOCUMENTS	N/A
EFFECTIVE_DATE	N/A
INVOICE_TRANSMISSION_DATE	N/A
PRIOR_TO_DATE_OF_DELIVERY	N/A
RECEIPT_OF_GOODS	N/A

### 5.2.12. Payment Terms Type List

Code Name	Code Value
BASIC_DISCOUNT_OFFERED	Payment term is basic discount offered.
BASIC_NET	Payment conditions normally applied.
DEFERRED	Payment term is deferred.
DISCOUNT	Payment term is discount.
DISCOUNT_AFTER_DEDUCTING_FREIGHT	Payment term is discount after deducting freight.
DISCOUNT_NOT_APPLICABLE	Payment term is discount not applicable.
ELECTIVE	Payment term is to be chosen by buyer (from options separately advised).
END_OF_MONTH	Payment term is end of month.
EXTENDED	Payment term is extended.
FIXED_DATE	Payment term is fixed date.
INSTANT	Payment term is due on receipt of invoice.
MIXED	Different payment terms negotiated under a documentary credit.

Code Name	Code Value
NO_CHARGE	There is no charge associated to the payment term.
PAYMENT_BY_INSTALLMENT	Payment term is payment by instalment.
PREVIOUSLY_AGREED_UPON	Payment term is previously agreed upon.
PROXIMO	Payment term is in the next month after present.
VALUTA	Value date, which is a prolongation of the terms for payment

### 5.2.13. Response Status List

Code Name	Code Value
ACCEPTED	N/A
MODIFIED	N/A
REJECTED	N/A

### 5.2.14. Settlement List

Code Name	Code Value
BILL_BACK	N/A
CHARGE_TO_BE_PAID_BY_CUSTOMER	N/A
CHARGE_TO_BE_PAID_BY_VENDOR	N/A
CREDIT_CUSTOMER_ACCOUNT	N/A
ITEM_ACCRUALS	N/A
OFF_INVOICE	N/A
VENDOR_ACCRUALS	N/A
VENDOR_CHECK	N/A

### 5.2.15. Time Period List

Code Name	Code Value
DAYS	N/A
MONTHS	N/A
WEEKS	N/A

### 5.2.16. Trade Channel Code List

Code Name	Code Value
CONVENIENCE	Small format retail store often outside or annexed to a gas/fuel station.
DRUG	Organisations or departments engaged in retailing prescription or non-prescription drugs and medicines.



Code Name	Code Value
FOOD_SERVICE	Trade channel that sells prepared food, for example restaurants, hotels, clubs.
GROCERY	Organisations or departments primarily engaged in retailing a general line of food products.
HARD_LINES	Organisations or departments primarily engaged in retailing a general line of hardware items, such as tools and builders' hardware.
HOME_GOODS	Not available
INDUSTRIAL	Not Available
INSTITUTIONAL	Not Available
MASS_MERCHANDISING	Organisations or departments primarily engaged in high volume, fast turnover variety of merchandise.
MILITARY	Sale of items to the military.
UNSPECIFIED	Trade Channel unknown or not relevant.
VENDING	The retailing merchandise through vending machines.

## 6. Business Document Example

Not Applicable

## 7. Implementation Considerations

Not Applicable

## 8. Testing

.

### 8.1. Pass / Fail Criteria

### 8.2. Test Data

Attribute	Value
Not Applicable	

## 9. Appendices

Not Applicable

## 10. Summary of Changes

Change	BSD Version	Associated CR Number
<ul style="list-style-type: none"> <li>In section 1.5.3 changed ISO639_Code in Extended Data Types to allow for a field length of up to 5 characters.</li> </ul>	1.0.0	
<ul style="list-style-type: none"> <li>Made Target Market Description Optional</li> </ul>	1.0.1	05-000389
<ul style="list-style-type: none"> <li>Added External File Link</li> </ul>	1.0.2	
<ul style="list-style-type: none"> <li>Added UN_INFODS_Code to Extended Data Types Class Diagram.</li> </ul>	1.0.3	05-000195
<ul style="list-style-type: none"> <li>Made Flashpoint Temperature optional in Trade Item Hazardous Information</li> <li>Added Non-Binary Logic Code List</li> <li>Added fileEffectiveStartDate, fileEffectiveEndDate to ExternalFileLink</li> </ul>	1.1.0	07-000171
<ul style="list-style-type: none"> <li>Updated the following code lists for additional values. <ul style="list-style-type: none"> <li>AllowanceChargeCodeList</li> <li>AdditionalTradeItemIdentification</li> <li>AdditionalPartyIdentification</li> <li>Non-Binary Logic Code List</li> </ul> </li> <li>Added Trade Channel Code List from Price Sync.</li> </ul>	1.2.0	