

# **Business Message Standard (BMS)**

**for**

**Align/Peer-To-Peer Trade Item (Data  
Definition)**

**BRG: Align**

**BMS Release: 2.0**

**Document Version: 9.0.0**

**Release Date: 31.12.2004**

*(dd.mm.cyyy)*



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<b>CR Submitter(s):</b>	
<b>Date of CR Submission to GSMP:</b>	

### Business Requirements Document (BRAD) Reference

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30.12.2004	9.0.0	Eric Kauz	Initial Draft of BSD		
23.04.2007	9.0.1	Giovanni Biffi	Editorial Changes	Minor Editorial Changes to the Document	

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### 1 Business Solution

#### 1.1 Business Domain View

##### 1.1.1 Problem Statement / Business Need

Item is the second message in the trade process following the Party message. Item elements are the mandatory attributes needed to align the item information between trading partners. These attributes in combination ensure the uniqueness of the data set associated with a GTIN. The use, definition, and relevance of these attributes is the same for ALL EAN.UCC industries. Following the Item attributes is an extension of cross industry. These are data attributes that may be required in conducting commerce between partners for the trade of an item or service. These attributes are relevant to more than one industry. The definition of these attributes must be the same for all industries.

Item and the extension of the cross industry data processes include communicating the data elements necessary to support the core business requirements in the global trading environment. The Party and Item process are mandatory in the completion of the price, purchase order, invoice, etc. messages that follow in the global trade process.

The objective of this document is to elaborate the Data Synchronization Data Model for Trade Item (hereafter referred to as 'Data Sync Trade Item') business process in enough detail to support the construction of standards. It is assumed that the players, both seller and buyer, have established a business understanding of the trading partner relationship. The challenge is to provide the core elements necessary to complete all supply chain processes without duplicates.

##### 1.1.2 Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements for Data Alignment.

##### 1.1.3 Audience

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers and other third parties.

##### 1.1.4 Artefacts

Artefact name	State	Artefact / State description

### 1.1.5 References

Reference Name	Description
"ELECTRONIC CATALOGUES EAN RECOMMENDATIONS COMMON SET OF DATA" (June 1998-June 1999)	
"GLOBAL DATA ALIGNMENT – GCI – DRAFT" (21 Jan. 2000 – 24 July 2000)	
"ELECTRONIC CATALOGUES EAN RECOMMENDATIONS COMMON SET OF DATA" (June 1998-June 1999)	
GLOBAL DATA DICTIONARY- Item Data Model – General Overview, Version 1, Global Commerce Initiative, Global Data Dictionary Group, March 31, 2002	
EAN.UCC Business Message Standards Version 1.0, July 2001	
Core Party Business Requirements Document, Version 6.0 of May 10, 2002	
Core Item and Extension of Trading Partner Neutral Data, Version 0.6.0 of May 10, 2002	
EAN.UCC Global Business Model (Process and Data), October 1999	
Java Framework for SIMPL-EDI Requirements Specification, April 2000	
Simple eb(electronic business), March 2000	
BPAWG Model of the International Supply Chain Domain (interim report), January 2000	
Change Requests: 01-000009, 01-000010, 01-000064, 01-000065.	
Change Request 02-00065	
GSMP –Technical Steering Team, Policy Paper "Policy on the use of identification keys in standards and recommendations developed in GSMP", January 2003	
GLOBAL DATA DICTIONARY- Item Data Model – General Overview, Version 1, Global Commerce Initiative, Global Data Dictionary Group, March 31, 2002	
EAN.UCC Business Message Standards Version 1.0, July 2001	
UCS 888 Item Maintenance	
VICS EDI 832 Price Sales Catalog	
I/C EDI 832 Price Sales Catalog	
EANCOM® PRICAT	
ebXML/SOAP	
eCo Framework (Common Business Library)	
Rosettanet	

### 1.1.6 Acknowledgements

*(List of the individuals—and their companies—who participated in the creation, review and approval of this BMS.)*

#### 1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Member	Buckley, Greg	Pepsi-Cola USA
BRG Member	Costello, Aidan	QRS
BRG Member	Funk, Jim	SC Johnson
BRG Member	Geyer, Terrie	Sears Roebuck & Company
BRG Member	Gore, Harshal	E-centre-UK
BRG Member	Harris, Mike	Vialink
BRG Member	Hawkins, Bruce	Wal-Mart
BRG Member	Iwicka, Ewa	EAN International
BRG Member	Kasper, Sascha	EAN Germany, CCG
BRG Member	Kille, Grant	WWRE
BRG Member	Laskero, Nancy	Sears Roebuck & Company
BRG Member	Laur, Rita	ECCC, Canada
BRG Member	Lerch, Hanjörg	Metro AG, Germany
BRG Member	Licul, Ed	Transora
BRG Member	Lockhead, Sean	UCCNet
BRG Member	Merulla, Mike	Wegmans
BRG Member	Moise, Michael	Nestle
BRG Member	Mouton, Olivier	Carrefour, France
BRG Member	Ngo, Aileen	Nestle
BRG Member	Panaccio, Robert (Co-chair)	Procter & Gamble
BRG Member	Pottier, Natascha (Co-chair)	EAN Germany, CCG
BRG Member	Sadiwnyk, Mike	ECCC, Canada
BRG Member	Schneck, Joy	General Mills
BRG Member	Sheldon, Emma	UDEX
BRG Member	Spooner, Karen	Kraft Foods
BRG Member	Vacval, Milan	Vista CPG
BRG Member	Walton, Mike	UDEX
BRG Member	Warde, Nadim	Equadis
BRG Member	Watt, Anna (Co-chair)	Cadbury/Schweppes
BRG Member	Wasielewski, David	Connective Commerce
BRG Member	Zielinski, Felix	The Coca Cola Company



### 1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		
ITRG Member		
...		

### 1.1.6.3 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

### 1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	Ryu, John	EAN.UCC, Business Process Modeler
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer		

## Business Solution Design

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### 1.2 Business Context

*(Note: The business context of the business)*

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

### 1.3 Additional Technical Requirements Analysis

#### 1.3.1 Technical Requirements (optional)

Number	Statement	Rationale

### 1.4 Business Transaction View

#### 1.4.1 Business Transaction Use Case Diagram

#### 1.4.2 Use Case Description

Use Case ID	UC-1																							
Use Case Name																								
Use Case Description	There is only one scenario in the Item data communication process as described in problem statement of section 1.1. Item data alignment is the process of communicating the core item and cross industry data elements following the establishment of a business relationship between supplier, buyer or third party.																							
Actors (Goal)	<p>The two general players in the Data Sync Trade Item business process are the "seller" and the "buyer". Depending on the specific nature of the relationship other players may have a role, such as a Third Party. The graphic flow below pictures the core sequence of messages, and is expanded to account for additional scenarios.</p> <table><tr><th>Ac-tor's Name</th><th>Description</th><th>Buyer</th><th>Seller</th><th>3<sup>rd</sup> Party</th></tr><tr><td>Seller</td><td>Manufacturer or supplier of the item.</td><td></td><td>X</td><td>X</td></tr><tr><td>Buyer</td><td>Retailer or distributor of the item</td><td>X</td><td></td><td>X</td></tr><tr><td>Third Party</td><td>Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item.</td><td>X</td><td>X</td><td>X</td></tr></table>				Ac-tor's Name	Description	Buyer	Seller	3 <sup>rd</sup> Party	Seller	Manufacturer or supplier of the item.		X	X	Buyer	Retailer or distributor of the item	X		X	Third Party	Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item.	X	X	X
Ac-tor's Name	Description	Buyer	Seller	3 <sup>rd</sup> Party																				
Seller	Manufacturer or supplier of the item.		X	X																				
Buyer	Retailer or distributor of the item	X		X																				
Third Party	Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item.	X	X	X																				
Performance Goals																								
Preconditions	<p>The buyer and seller must make contact and set up a business relationship before trade can proceed. This is a prerequisite to all of the other steps. This initial contact can be made in many different ways. Following the establishment of the trading agreement the parties must exchange their basic business data such as trading partner names, addresses, locations, item attributes, price lists, contracts and trading partner agreements. Specifically, the Core Item message follows the Core Party message in the data alignment process. This process creates a common understanding between the trading parties which can be used as a resource throughout the trading process.</p> <p>The Data Sync Trade Item business process begins when the parties decide to do business together. The next step is for the buyer to communicate the Party organizational information to the seller. The seller provides his Party organizational information to buyer. Other data alignment follows such as item and price attributes.</p>																							

## Business Solution Design

<b>Post conditions</b>	The end-state of the Data Sync Trade Item business process occurs when the parties have achieved Party and Item data alignment.															
<b>Scenario</b>	<p><b>Begins when...</b> trading partners discuss the need to exchange item information.</p> <p><b>Continues with...</b></p> <table border="1"><thead><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><tr><td>1</td><td>All</td><td>All preconditions have been met.</td></tr><tr><td>2</td><td>Seller</td><td>Communicates item data.</td></tr><tr><td>3</td><td>Buyer</td><td>Receives item data.</td></tr><tr><td>4</td><td>Buyer</td><td>Applies item data or notifies the seller of any errors in the data.</td></tr></tbody></table> <p><b>Ends when...</b> the Data Sync Trade Item business message has been accepted by both the seller and buyer and data alignment has been achieved. This process can be an ongoing process as item business information changes or new parties are added. The process of trading goods and services can now occur.</p>	Step #	Actor	Activity Step	1	All	All preconditions have been met.	2	Seller	Communicates item data.	3	Buyer	Receives item data.	4	Buyer	Applies item data or notifies the seller of any errors in the data.
Step #	Actor	Activity Step														
1	All	All preconditions have been met.														
2	Seller	Communicates item data.														
3	Buyer	Receives item data.														
4	Buyer	Applies item data or notifies the seller of any errors in the data.														
<b>Alternative Scenario</b>	<p><i>(any alternatives to the above scenario)</i></p> <table border="1"><thead><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr></thead><tbody><tr><td>1</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr></tbody></table>	Step #	Actor	Activity Step	1			2			3			4		
Step #	Actor	Activity Step														
1																
2																
3																
4																
<b>Related Requirements</b>	<table border="1"><tr><td>1</td><td></td></tr></table>	1														
1																
<b>Related Rules</b>	<table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>															

### **1.4.3 Business Transaction Activity Diagram(s)**

Not Available.

### **1.4.4 Business Transaction Sequence Diagram(s) (optional)**

Not Available.

## Business Solution Design

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### 1.5 Information Model (including GDD Report)

#### 1.5.1 Data Description (Related Requirements):

Class
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## Business Solution Design

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### 1.5.2 GDD Report

#### Peer To Peer Trade Item Document

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
BrandOwnerOf- TradeItem				Brand Owner_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	nameOf- BrandOwner			Brand Owner_ Party. Name. Text	Name of the party who owns the brand of the trade item. Mandatory when brandOwner Party identification is provided.	1..1
		brandOwner	PartyIdentifica- tion	Brand Owner_ Party. Association. Party Identifi- cation	Unique location number identifying the brand owner. May or may not be the same entity as the information provider, which actually enters and maintains data in data pools.	1..1
CatalogueItem- Classification				GPC_ Product Classifica- tion. Details	n.a.	
	classification- CategoryCode			GPC_ Product Classifica- tion. Class. Identifier		1..1
ChildTradeItem				Child_ Trade Item. Details	n.a.	
	quantity- ofNextLower- LevelTradeItem			Child_ Trade Item. Quan- tity. Quantity	!! The number of next lower level trade item that this trade item contains.	1..1
		None	TradeItemIden- tification	Child_ Trade Item. Asso- ciation. Trade Item Identifi- cation	A reference to the GTIN of the next lower level of trade item that this trade item contains .	1..1
Document				Electronic_ Document.	Used to specify basic information about the content of the	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
				Details	message including version number, creation date and time.	
	contentVersion			Electronic_ Document. Content_ Version. Identifier	Not defined in BRD	0..1
	creation- DateTime			Electronic_ Document. Creation_ Date. Date Time	Not defined in BRD	1..1
	documentStatus			Electronic_ Document. Status. Identifier	Indicates if the document is a copy or an original.	1..1
	documentStruc- tureVersion			Electronic_ Document. Document Structure_ Version. Identifier	Not defined in BRD	0..1
	lastUpdateDate			Electronic_ Document. Last Update_ Date. Date Time	Not defined in BRD	0..1
EANUCCTrade- ItemClassifica- tion				GPC_ Product Classifica- tion Attribute. Details	Not Defined in BRD	
	eANUCCClassi- ficationAttribute- TypeCode			GPC_ Product Classifica- tion Attribute. Type. Identifier	Unique 8 digit code which identifies the Global EAN.UCC classification attribute.	1..1
	eANUCCClassi- ficationAttribute- TypeDefinition			GPC_ Product Classifica- tion Attribute. Type Defini- tion. Text	System generated explanation of Global EAN.UCC attrib- ute.	0..1
	eANUCCClassi- ficationAttrib- uteTypeName			GPC_ Product Classifica- tion Attribute. Type Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute code	1..1
		None	EANUCCTrade- ItemClassifica- tionValue	GPC_ Product Classifica- tion Attribute. Association. GPC_ Product Classifica-	None	1..1



## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				tion Attribute Value		
EANUCCTradeItemClassificationValue				GPC_ Product Classification Attribute Value. Details	Not Defined in BRD.	
	eANUCCClassificationAttribute-ValueCode			GPC_ Product Classification Attribute Value. Code. Identifier	!! Unique 8 digit code which identifies the Global EAN.UCC classification attribute value.	1..1
	eANUCCClassificationAttribute-ValueName			GPC_ Product Classification Attribute Value. Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute value code.	1..1
EANUCCTradeItemClassification				GPC_ Product Classification Attribute. Details	Not Defined in BRD	1..1
EntityIdentification				Entity Identification. Details	The unique identification of a document.	
	uniqueCreatorIdentification			Entity Identification. Identification. Identifier	N/A	1..1
		contentOwner	PartyIdentification	Entity Identification. Content Owner. Party Identification	None	1..1
Information-Provider				Information Provider_Party. Details	!! This class is part of the Trade Item Information Class	
	nameOfInformationProvider			Information Provider_Party. Name. Text	Name of the party who owns the data. Name of the information provider on the trade item. Mandatory when informationProvider is provided	1..1
		information-Provider	PartyIdentification	Information Provider_Party. Identification. Party Identification	None	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
ManufacturerOf-TradeItem				Manufacturer_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	nameOfManufacturer			Manufacturer_ Party. Name. Text	Descriptive name of the manufacturer of the trade item.	1..1
		manufacturer	PartyIdentification	Manufacturer_ Party. Association. Party Identification	None	1..1
MarketingInformation				Trade Item_ Marketing. Details	None	
	campaignEndDate			Trade Item_ Marketing. End_ Campaign Date Time. Date Time	The date suggested by the supplier for the campaign to end. It indicates the end of a marketing campaign.	0..1
	campaignStartDate			Trade Item_ Marketing. Start_ Campaign Date Time. Date Time	The date suggested by the supplier for the campaign to start. It indicates the begin-ning of a marketing campaign.	0..1
	specialItemCode			Trade Item_ Marketing. Special Item Code. Special Item Code_ Code	This element identifies spe-cific items for promotional or special tracking purposes.	0..*
	campaignName			Trade Item_ Marketing. Campaign_Name. Language_ Text	Name of the sales or market-ing campaign, for which the textile trade item is intended. Input of user-defined text in order to assign the item to a specific marketing campaign.	0..1
	tradeItemFeatureBenefit			Trade Item_ Marketing. Feature_Benefit. Language_ Text	Element for consumer facing marketing content to describe the key features or benefits of the style suitable for display purposes.	0..*
	tradeItemMarketingMessage			Trade Item_ Marketing. Marketing_Message. Language_ Text	Marketing message associated to the Trade item.	0..1
MaterialCompo-				Product_ Material Com-	None	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
sition				position. Details		
	materialAgency-Code			Product_ Material Composition. Material_Agency. Material Agency Code_ Code	This element indicates the agency that is maintaining the Trade Item Material codes. This may include a specific code list.	0..1
	materialContent			Product_ Material Composition. Material Content_ Description. Text	This element is used to indicate the material composition. This element is used in conjunction with the percentage.	0..1
	materialPercentage			Product_ Material Composition. Material_ Percentage. Percent_ Numeric	Net weight percentage of a product material of the first main material. The percent-ages must add up to 100.	0..1
		materialCode	MultiDescription	Product_ Material Composition. materialCode_ Association. Multi-language Description	This element indicates the product material code that gives the composition of the trade item's first main material up to six material short codes that can be given in descending order of their respective percentages.	0..1
MaterialSafety-Data				Material Safety Data Sheet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	materialSafety-DataSheetNumber			Material Safety Data Sheet. Identification. Identifier	!! Manufacturer's identification number for the material safety data sheet for a trade item. This attribute is mandatory if the Material Safety Data Sheet attribute is "Y".	1..1
NextLower-LevelTrade-ItemInformation				Next Lower Level_ Trade Item Containment. Details	!! This class originates in the root class TradeItem	
	quantityOfChildren			Next Lower Level_ Trade Item Containment. Number Of Children_ Quantity. Quantity	Value indicates the number of unique next lower level trade items contained in a complex trade item. A complex trade item can contain at least 2 different GTINs.	1..1
	totalQuantity-			Next Lower Level_ Trade	This represents the Total quantity of next lower level trade	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	OfNextLower-LevelTradeItem			Item Containment. Total_Quantity. Quantity	Items that this trade item contains.	
		None	ChildTradeItem	Next Lower Level_ Trade Item Containment. Association. Child_ Trade Item	None	1..*
NonPackaged-SizeDimension				Apparel_Home Fashions_ Product Size Group. Details	None	
	descriptiveSize-Dimension			Apparel_Home Fashions_ Product Size Group. Choice_ Dimension_ Description. Text	The textual representation of the size dimension specified by the size type.	1..1
	sizeDimension			Apparel_Home Fashions_ Product Size Group. Choice_ Size_ Dimension. Measure	The numerical size measure-ment of the size dimension specified by the size type.	1..1
	sizeSystem			Apparel_Home Fashions_ Product Size Group. Size_ System. Size System Code_ Code	This is the system that is being used to define the size. It is used in conjunction with size group to completely define the size dimension.	1..1
	sizeType			Apparel_Home Fashions_ Product Size Group. Size_ Type. Size Type Code_ Code	The type of size dimension being specified by the size measurement.	1..1
NonPackageTradeItemDimension				Apparel_Home Fashions_ Product Size. Details	None	
	sizeGroup			Apparel_Home Fashions_ Product Size. Size_ Group Type. Size Group	A description of the variable size that is necessary to uniquely specify the size of the item in conjunction with the non-packaged size dimension.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
				Code_ Code		
		None	NonPackaged-SizeDimension	Apparel_ Home Fash-ions_ Product Size. Association. Apparel_ Home Fashions_ Product Size Group	None	1..*
OrderingAnd-SellingUnitOf-Measure				Ordering_ Selling_ Trade Item Unit Information. Details	None	
	orderingUnitOf-Measure			Ordering_ Selling_ Trade Item Unit Information. Ordering_ Transaction Unit Of Measure. Text	The alternate Unit of Measure of how Trade Items are ordered by the Retailer under one Unit of Measure, but sold under another Unit of Measure.	0..1
	sellingUnitOf-Measure			Ordering_ Selling_ Trade Item Unit Information. Selling_ Transaction Unit Of Measure. Text	Describes the measurement used for selling unit of the Trade Item to the end consumer. A Trade Item may have only one Unit of Measure.	0..1
OrganicTrade-ItemCharacteris-tics				Organic_ Trade Item. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	organicClaimA-gency			Organic_ Trade Item. Claim_ Agency Name. Text	A Governing body that creates and maintains standards related to organic products.	1..*
	organicTrade-ItemCode			Organic_ Trade Item. Class. Identifier	!! Used to indicate the organic status of a trade item or of one or more of its components.	1..1
PackagingMark-ing				Peer To Peer_ Trade Item_ Packaging Marking. Details	N.A	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	isPackaging-MarkedReturn-able			Peer To Peer_Trade Item_ Packaging Marking. Returnable_ Marking. Indicator	Trade item has returnable packaging.	1..1
	isPackaging-MarkedWithIn-gredients			Peer To Peer_Trade Item_ Packaging Marking. Ingredients_ Marking. Indicator	Trade item packaging contains information pertaining to its ingredients. trade item ingredients are required to be shown on the trade item (normally at base trade item level). This is a yes/no (Boolean) where yes equals marked with ingredients.	0..1
	offerOnPack			Peer To Peer_Trade Item_ Packaging Marking. offerOnPack. Text	Contains details of any on pack product offer (consumer or traded).	0..1
	packageMarks-DietAllergen			Peer To Peer_Trade Item_ Packaging Marking. Diet Allergen_ Marked As. Package Marks Diet Al-lergen Code List_ Code	Indication of which dietary or allergen marks that are on the package.	0..*
	packageMark-sEnvironment			Peer To Peer_Trade Item_ Packaging Marking. Environment_ Marked As. package Marks Environ-ment Code List_ Code	Indication of which environmental marks (e.g. recycling schemes) that are on trade item package.	0..*
	packageMark-sEthical			Peer To Peer_Trade Item_ Packaging Marking. Ethical_ Marked As. Package Marks Ethical Code List_ Code	Indication of which ethical trading marks that are on the package.	0..*
	packageMarks-FreeFrom			Peer To Peer_Trade Item_ Packaging Marking. Free From_ Marked As. Package Marks Free From Code List_ Code	Indication of which free-from marks that are on the pack-age.	0..*

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	packagingMarkedExpirationDateType			Peer To Peer_Trade Item_ Packaging Marking. Date Expiration Type_Marked As. Packaging Marked Expiration Date Code_ Code	Indicates the type of expiration date marked on the packaging.	0..*
	packagingMarkedRecyclableScheme			Peer To Peer_Trade Item_ Packaging Marking. Marked Recyclable Scheme_ Description. Text	The package of this GTIN is marked to indicate under which scheme it is recyclable. Applies to recyclable packaging with or without deposit. Examples: Aluminum can be marked as recyclable.	0..1
PackagingMaterial				Peer To Peer_ Packaging Material. Details	n.a.	
	depositValueEffectiveDate			Peer To Peer_ Packaging Material. Effective_ Deposit Value Date. Date Time	First date that the deposit value is valid for the deposit code. CCYYMMDD.	0..1
	depositValueEndDate			Peer To Peer_ Packaging Material. End_ Deposit Value Date. Date Time	Last date that the deposit value in the currency is valid for the deposit code.	0..1
	packagingMaterialCode			Peer To Peer_ Packaging Material. Type. Code	Currently a European Union table of code lists exists for this requirement. The code list required to identify the packaging material of the trade item. Examples: "GL" (glass) "AL" (Aluminum).	1..1
	packagingMaterialCodeListMaintenanceAgency			Peer To Peer_ Packaging Material. Code List Maintenance Agency. Text	The agency or agencies controlling the packaging code lists of each country.	1..1
	packagingTermsAndConditions			Peer To Peer_ Packaging Material. Terms And Conditions. Text	Indicates if the packaging given in the described packaging configuration is a rented, exchangeable, against deposit or one way/not reusable.	0..1
	returnablePack-			Peer To Peer_ Packaging	In some markets the deposit information is specified by a	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	ageDepositCode			Material. Returnable Package_ Deposit Code. Text	GTIN giving the type of returnable package on which a deposit is charged. Each deposit code is associated with an amount specified elsewhere. The enumeration list is maintained externally.	
		packagingMaterialComposition-Quantity	MultiMeasure-mentValue	Peer To Peer_ Packaging Material. Packaging Material_ Composition Quantity. Multi-unit Measure	The quantity of the packaging of the trade item. Can be weight, volume or surface, can vary by country.	1..1
	returnablePackageDepositAmount			Peer To Peer_ Packaging Material. Returnable Package_ Deposit_ Amount. Amount	The monetary amount for the individual returnable package.	0..1
		packagingMaterialDescription	MultiDescription	Peer To Peer_ Packaging Material. Packaging Material_ Description. Multi-language Description	The system generated text description equivalent of the packaging material code.	1..1
PackagingType				Packaging.Details	n.a.	
	packagingType-Code			Packaging. Type. Packaging Type_ Code	The code identifying the type of package used as a container of the trade item.	1..1
	packaging-TypeDescription			Packaging. Description. Text	System generated text description of the type of packaging used for the trade item.	1..1
PegMeasurements				Peg Location. Details	This class enables the description of multiple peg holes and their locations for a trade item.	
	pegHoleNumber			Peg Location. Location_ Number. Numeric	Used to indicate the peg hole numbers when more than one hole is present in the product or packaging. Peg holes should be numbered from the upper left corner of the front of the package to the bottom right corner.	1..1
		pegHorizontal	MultiMeasure-mentValue	Peg Location. Peg_ Horizontal. Multi-unit Measure	Used to indicate the horizontal distance from the left edge of the trade item to the center of the hole into which the	1..1



## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					peg is inserted when the trade item is displayed on a peg-board. Example: "2 INH." Required if the trade item is displayed on a peg board.	
		pegVertical	MultiMeasurementValue	Peg Location. Peg_ Vertical. Multi-unit Measure	Used to indicate the vertical distance of a peg hole measured from the bottom edge of the trade item to the top of the peg hole. Peg holes are inserted when the trade item is displayed on a pegboard. Example: "2 INH." Information is required if the trade item is displayed on a peg board.	1..1
PriceOnTrade-Item				Price_ Packaging Marking. Details	n.a.	
	retailPriceOn-TradeItem			Price_ Packaging Marking. Retail_ Price. Amount	The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field priceOnPack-Indicator	1..1
PrivateInformation				Private Data Recipient_ Party. Details	n.a.	
		partyReceiving-PrivateData	PartyIdentification	Private Data Recipient_ Party. Association. Party Identification	n.a.	
Season				Trade Item_ Season. Details	n.a.	
	seasonCalendarYear			Trade Item_ Season. Season_ Calendar Year. Text	This element indicates the calendar year in which the trade item is seasonally available.	0..*
	seasonParameter			Trade Item_ Season. Season_ Parameter. Season Parameter Code_ Code	Indication of the season, in which the trade item is available, i.e. assignment to one of the following collection periods: spring/summer, autumn/ winter or all year around.	0..*
	seasonalAvail-			Trade Item_ Season.	Indicates the end date of the trade item's seasonal avail-	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	abilityEndDate			Seasonal_End_Availability Date. CCYYMMDD hhmm_ Date Time	ability.	
	seasonalAvailabilityStartDate			Trade Item_ Season. Seasonal_Start_Availability Date. CCYYMMDD hhmm_ Date Time	Indicates the start date of the trade item's seasonal availability.	0..1
	seasonName			Trade Item_ Season. Season_Name_ Description. Text	Element defines the season applicable to the item.	0..*
SecurityTagInformation				Security Tag. Details	n.a.	
	securityTagType			Security Tag. Security Tag Type. Security Tag Type Code_ Code	This is a code to indicate the type of EAS tag located on the Trade Item. Values include Acousto-Magnetic, Electro-Magnetic, Ink or dye, Microwave, Radio Frequency.	0..1
	securityTagLocation			Security Tag. Tag_ Location. Security Tag Location Code Type_ Code	This is a code to indicate where the EAS tag is located on the Trade Item. Values include On outside of Trade Item, Concealed inside Trade Item, Integrated Inside Trade Item.	0..1
TargetConsumer				Trade Item_ Target Consumer. Details	n.a.	
	targetConsumerAge			Trade Item_ Target Consumer. Consumer Age_ Description. Text	Identifies the target consumer age range for which a trade item has been designed.	0..1
	targetConsumerGender			Trade Item_ Target Consumer. Target Consumer_ Gender Code. Target Consumer Gender Code_ Code	Identifies the target consumer gender for which a product has been designed.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
TargetMarketIn- formation				Named_ Target Market. Details	!! This is a reusable class from Trade Item Common and referenced as part of the Trade Item Information class.	
	targetMarket- CountryCode			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
	targetMarketDe- scription			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.	1..1
	targetMar- ketSubdivision- Code			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
TradeItemDocu- ment				Trade Item Alignment. Details	!! This is the root class of the Trade Item Message.	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
		None	Document	Trade Item Alignment. Inheritance_ Association. Electronic_ Document	None	1..1
		tradeItemDocu- mentIdentification	EntityIdentification	Trade Item Alignment. Association. Entity Identification	!! This is a role from the TradeItemDocument root class. The destination class is EntityIdentification.	1..1
TradeItem				Trade Item. Details	!! Trade Item is the root class within the TradeItemDocu- ment.	
	tradeItemUnit- Descriptor			Trade Item. Unit Descrip- tor. Unit Descriptor_ Code	n.a.	1..1
		None	NextLower- LevelTrade- ItemInformation	Trade Item. Association. Next Lower Level_ Trade Item Containment	n.a.	0..1
		None	TradeItemHan- dlingInformation	Trade Item. Association. Trade Item Handling	None	0..1
		None	TradeItemIden- tification	Trade Item. Association. Trade Item Identification	None	1..1
		replacedTrade- ItemIdentification	TradeItemIden- tification	Trade Item. Replaced. Trade Item Identification	!! This is a role from the Trade Item Class.	0..1
		None	TradeItemInfor- mation	Trade Item. Association. Trade Item Information Group	None	1..1
TradeItemCol- orDescription				Trade Item Colour. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	colorCodeValue			Trade Item Colour. Code. Colour_ Code	The code list required to identify the color of the trade item. No ISO standards exist. Each industry needs to determine which code agency is will use.	1..1
	colorCode- ListAgency			Trade Item Colour. Colour Code_ Agency. Text		1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
		colorDescription	MultiDescription	Trade Item Colour. Description. Multi-language Description	Free from text. A description text field. This data element is repeatable for each language used and must be associated with a valid ISO language code from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details. Sector specific extension. 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, 1-70, as defined in the Trade Item BRD.	1..1
TradeItemCoupon				Trade Item Coupon. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	couponFamily-Code			Trade Item Coupon. Family. Bilateral_ Code	A code assigned by the vendor to a single trade item or to families of consumer trade items that can be used by in store scanners in conjunction with a U.P.C. coupon value code for coupon value discount when the proper trade item has been purchased.	1..1
TradeItem-DateInformation				Trade Item Date Group. Details	n.a.	
	effectiveDate			Trade Item Date Group. Effective_ Date. CCYYMMDD_ Date Time	The date on which the information contents of the master data version are valid. Valid = correct or true. This effective date can be used for initial trade item offering or to mark a change in the information related to an existing trade item. This date would mark when these changes take effect. ISO 8601 date format CCYY-MM-DD. Examples: "2002-02-05" February 5th 2002. Effective Date is mandatory.	1..1
	lastChange-DateTime			Trade Item Date Group. Last Change_ Date. CCYYMMDD hhmm_ Date Time	A system generated value identifying the date and time a record was last updated. DateTime format ISO 8601 - CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" = February 5th 2002 5:00:00pm.	1..1
	publicationDate			Trade Item Date Group.	A date on which all static data associated with the trade	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
				Publication_ Date. CCYYMMDD_ Date Time	Item becomes available for viewing. Date format is defined in ISO8601 –CCYY-MM-DD. Examples: "2002-02-05" February 5th 2002.	
	startAvailability- DateTime			Trade Item Date Group. Start Availability_ Date. CCYYMMDD hhmm_ Date Time	The date from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services. DateTime format is ISO8601 – CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	1..1
	canceledDate			Trade Item Date Group. Cancelled_ Date. CCYYMMDD_ Date Time	Communicates cancelation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation. Use ISO 8601 date format CCYY-MM-DD.	0..1
	consumerAvailabilityDateTime			Trade Item Date Group. Consumer Availability_ Date. CCYYMMDD hhmm_ Date Time	The first date/time that the buyer is allowed to sell the trade item to consumers. Usually related to a specific geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS. ISO 8601 datetime format CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	0..1
	discontinuedDate			Trade Item Date Group. Discontinued_ Date. CCYYMMDD_ Date Time	Communicate the date on which the trade item is no longer to be manufactured. Allows the reuse of the GTIN after 48 months with the explicit exception of Apparel, being 30 months and the implicit exception for specialty products (e.g., steel beams). ISO 8601 date format CCYY-MM-DD.	0..1
	endAvailability- DateTime			Trade Item Date Group. End Availability_ Date. CCYYMMDD hhmm_ Date Time	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services. Datetime format is CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	0..1
	endDateMaximumBuyingQuantity			Peer To Peer_ Trade Item Date Group. Maximum Buying Quantity End_	The end date for when the maximum buying quantity is no longer available to the trading partner.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
				Date. Date Time		
	endDateMinimumBuyingQuantity			Peer To Peer_ Trade Item Date Group. Minimum Buying Quantity End_ Date. Date Time	The end date for when the minimum buying quantity is no longer available to the trading partner	0..1
	endDateTimeOfExclusivity			Peer To Peer_ Trade Item Date Group. Exclusivity End_ Date. Date Time	The Date & Time at which a product is no longer exclusive to that trading partner.	0..1
	firstOrderDate			Peer To Peer_ Trade Item Date Group. First Order_ Date. Date Time	It indicates the earliest date that an order can be placed for the trade item.	0..1
	firstShipDate			Peer To Peer_ Trade Item Date Group. First Ship_ Date. Date Time	It indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.	0..1
	lastOrderDate			Peer To Peer_ Trade Item Date Group. Last Order_ Date. Date Time	It indicates the latest date that an order can be placed for the trade item.	0..1
	lastShipDate			Peer To Peer_ Trade Item Date Group. Last Ship_ Date. Date Time	It indicates the latest date that the trade item can be shipped. This is independent of any specific ship-from location.	0..1
	startDateMaximumBuyingQuantity			Peer To Peer_ Trade Item Date Group. Maximum Buying Quantity Start_ Date. Date Time	The start date for when the maximum buying quantity is available to the trading partner.	0..1
	startDateMinimumBuyingQuantity			Peer To Peer_ Trade Item Date Group. Minimum Buying Quantity Start_ Date. Date Time	The start date for when the minimum buying quantity is available to the trading partner.	0..1
TradeItemFinish				Product Finish. Details	n.a.	
	tradeItemFinish-			Product Finish. Finish_	Additional Attribute which defines the outer sur-	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	Description			Description. Text	face/appearance of the product.	
TradeItemDe- scriptionInforma- tion				Peer To Peer_ Trade Item Description. Details	None	
	brandName			Peer To Peer_ Trade Item Description. Brand. Text	The recognizable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer. Brands are more likely to be language independent.	1..1
	linkToExter- nalDescription			Peer To Peer_ Trade Item Description. Link To Ex- ternal Description. Text	!!The link (e.g. url) to the external description.	0..1
	productRange			Peer To Peer_ Trade Item Description. Product Range. Text	A name, used by a BrandOwner, that span multiple con- sumer categories or uses. E.g. (Waist Watchers).	0..1
	subBrand			Peer To Peer_ Trade Item Description. Sub_ Brand. Text	Second level of brand. Can be a trademark. It is the pri- mary differentiating factor that a brand owner wants to communicate to the consumer or buyer. E.g. Yummy-Cola Classic. In this example Yummy-Cola is the brand and Classic is the subBrand.	0..1
	tradeItem- FormDescription			Peer To Peer_ Trade Item Description. Form_ De- scription. Text	The physical form or shape of the product. Used, for ex- ample, in pharmaceutical industry to indicate the formula- tion of the trade item. Defines the form the trade item takes and is distinct from the form of the packaging.	0..*
	tradeItem- GroupIdentifica- tionCode			Peer To Peer_ Trade Item Description. Group. Identifi- fier	A code assigned by the supplier or manufacturer to logi- cally group trade item independently from the Global trade item Classification.	0..1
		tradeItemDe- scription	MultiLongDe- scription	Peer To Peer_ Trade Item Description. Long_ De- scription. Long_ Multi- language Description	The concatenated product description of a product or ser- vice. This is a derived attribute resulting from the concate- nation of 4 other attributes of up to 35 characters each.	1..1
		additionalTrade-	MultiLongDe-	Peer To Peer_ Trade Item	The description of a product or service.	0..1



## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi-plicity
		ItemDescription	scription	Description. Additional_Trade Item_ Description. Multi-language Description		
		descriptionShort	MultiDescription	Peer To Peer_ Trade Item Description. Short_ Description. Multi-language Description	A free form short length description of the trade item that can be used to identify the trade item at point of sale.	0..1
		functionalName	MultiDescription	Peer To Peer_ Trade Item Description. Functional_ Name. Multi-language Description	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN. Examples: drill, salad dressing, soup, beer.	1..1
		invoiceName	MultiDescription	Peer To Peer_ Trade Item Description. Invoice_ Name. Multi-language Description	Free form information provider assigned trade item description designed to match trade item/service description as noted on invoices.	0..1
		tradeItem-GroupIdentificationDescription	MultiDescription	Peer To Peer_ Trade Item Description. Trade Item_Group Identification_ Description. Multi-language Description	The text description of the value represented by the trade itemGroupIDCode. Example: "501 Blue Jeans", represent all sizes and colors of this trade item. If trade item-GroupIDCode is present, this field must be present.	0..*
		variant	MultiDescription	Peer To Peer_ Trade Item Description. Variant. Multi-language Description	Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste. Examples: Examples: Banana, Strawberry, Lemon Scented.	0..*
TradeItemHandlingInformation				Peer To Peer_ Trade Item Handling. Details	n.a.	
	minimumTrade-ItemLifespan-FromTimeOfArrival			Peer To Peer_ Trade Item Handling. Minimum From Arrival Time_Trade Item_	The period of days, guaranteed by the manufacturer, before the expiration date of the trade item, based on arrival to a mutually agreed to point in the buyers distribution	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	val			Lifespan. Measure	system. . Must be expressed in number of days.	
	minimumTrade- ItemLifespan- FromTimeOfPro- duction			Peer To Peer_ Trade Item Handling. Minimum From Production Time_Trade Item_ Lifespan. Measure	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.	0..1
	stackingFactor			Peer To Peer_ Trade Item Handling. Stacking_ Fac- tor. Numeric	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked. Example: Factor of "2" = trade item is stackable 2 high. The counting of the levels will always commence at 1 not 0.	0..1
		stackingWeight- Maximum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Handling. Maximum Stacking_ Weight. Multi- unit Measure	The maximum admissible weight that can be stacked on the trade item. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other. Used in conjunction with unit of measure.	0..1
		handlingInstruc- tionsCode	MultiDescription	Peer To Peer_ Trade Item Handling. Handling_ In- struction. Multi-language Description	Defines the information and processes needed to safely handle the trade item. Handling instructions is composed of both text and a language code.	0..1
TradeItemHaz- ardousInforma- tion				Hazardous Goods. Details	!! This reusable class is part of the Trading Partner Neutral Trade Item Information Class.	
	classOfDanger- ousGoods			Hazardous Goods. Class. Identifier	!! Dangerous goods classification of the trade item. There are 9 danger classes, some classes are further subdivided into subclasses. "Class" number explains in general terms the nature and properties of the goods and serves to clas- sify them together in terms of their most significant risk.	1..1
	dangerousGood- sAMarginNum- ber			Hazardous Goods. A Margin Number. Integer_ Numeric	!! Information, whether for the base trade item or further packaging trade item a dangerous goods a-margin number does exist in the European dangerous goods agreements (and in the respective national dangerous goods legisla-	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					tion), thus facilitations for the transport of defined limited quantity by road or rail are possible or not. If they are possible, they must be indicated, whether they are used by the data supplier.	
	dangerousGoodsHazardousCode			Hazardous Goods. Hazard. Identifier	Dangerous goods hazard ID number, which must be applied to the vehicle, when transporting this trade item (dangerous good) by road or rail, to inform the police, the fire brigade and others in case of an accident about the kind of danger caused by the cargo.	1..1
	dangerous-GoodsPacking-Group			Hazardous Goods. Packing Group. Identifier	!! Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.	1..1
	dangerous-GoodsRegulationCode			Hazardous Goods. Regulation. Identifier	!! Code indicating the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.	1..1
	dangerous-GoodsShipping-Name			Hazardous Goods. Shipping_ Name. Text	Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.	1..1
	unitedNations-Dangerous-GoodsNumber			Hazardous Goods. United Nations_ Class. Identifier	!! The four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to classify a substance or a particular groups of substances. Abbreviation: UNDG Number.	1..1
		dangerousGoodsTechnicalName	MultiLongDescription	Hazardous Goods. Technical_ Name. Long_ Multi-language Description	Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 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, 1-200, as defined in	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					the Trade Item BRD.	
		flashPointTemperature	MultiMeasurementValue	Hazardous Goods. Flash Point_ Temperature. Multi-unit Measure	The lowest temperature at which a substance gives off a sufficient vapor to support combustion. This uses a measurement consisting of a unit of measure and value.	1..1
TradeItemHierarchy				Trade Item Containment. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	quantityOfCompleteLayersContainedInATradeItem			Trade Item Containment. Complete Layers_ Quantity. Quantity	The number of layers of the base trade item found in a trade item. Does not apply to the base trade item unit.	0..1
	quantityOfInnerPack			Trade Item Containment. Number Of Inner Packs_ Quantity. Quantity	Indicates the number of non-coded physical groupings (innerpacks) of next lower level trade items within the current GTIN level.	0..1
	quantityOfLayersPerPallet			Trade Item Containment. Layers Per Pallet_ Quantity. Quantity	The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.	0..1
	quantityOfNextLevelTradeItemWithinInnerPack			Trade Item Containment. Items Per Inner Pack_ Quantity. Quantity	Indicates the number of next lower level trade items contained within the physical non-coded grouping (innerpack).	0..1
	quantityOfTradeItemsContainedInACompleteLayer			Trade Item Containment. Items Per Complete Layer_ Quantity. Quantity	The number of trade items contained in a complete layer of a higher packaging configuration. Used in hierarchical packaging structure of a trade item. Cannot be used for trade item base unit.	0..1
	quantityOfTradeItemsPerPallet			Trade Item Containment. Items Per Pallet_ Quantity. Quantity	The number of trade items contained in a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet according to supplier or retailer preferences.	0..1
	quantityOfTradeItemsPerPallet-			Trade Item Containment. Items Per Pallet Layer_	The number of trade items contained on a single layer of a pallet. Only used if the pallet has no GTIN. It indicates the	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	Layer			Quantity. Quantity	number of trade items placed on a pallet layer according to supplier or retailer preferences.	
TradeItemImportIdentification				Trade Item_ Import Classification. Details	None	
	importClassificationType			Trade Item_ Import Classification. Import_ Classification Type. Import Classification Type Code_ Code		0..1
	importClassificationValue			Trade Item_ Import Classification. Import_ Classification Code. Text	Imports and exports of trade items typically require classification codes to determine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté	0..1
TradeItemInformation				Trade Item Information Group. Details	!! This class is part of the Trade Item Class.	
		None	AllowanceCharge	Trade Item Information Group. Association. Allowance Charge	!! This is a reusable class referenced in the Item BRD as part of the Trade Item Information class. See EAN.UCC Business Message Standard for Allowance-Charge Extension, July 2001.	0..*
		information-ProviderOfTradeItem	Information-Provider	Trade Item Information Group. Association. Information Provider_ Party	None	1..1
		None	PaymentTerms	Trade Item Information Group. Association. Payment Terms	!! This is a reusable class referenced in the Item BRD as part of the Trade Item Information class. See EAN.UCC Business Message Standard for Payment Terms Extension, July 2001.	0..*
		None	TargetMarketIn-	Trade Item Information	None	0..*

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
			formation	Group. Association. Named_ Target Market		
		None	TradeItemDescriptionInformation	Trade Item Information Group. Association. Trade Item Description	None	1..1
		None	TradingPartnerNeutralTradeItemInformation	Trade Item Information Group. Association. Trading Partner Neutral_ Trade Item	None	1..1
TradeItemMarking				Trade Item Marking. Details	n.a.	
	hasBatchNumber			Trade Item Marking. Batch Number. Indicator	Indication whether the base trade item is batch or lot number requested by law, not batch or lot number requested by law but batch or lot number allocated, or not batch or lot number allocated. A batch or lot number is a manufacturer assigned code used to identify a trade item's trade item on batch or lot. Differs from Serial Number which is a manufacturer assigned code during the trade item on cycle to identify a unique trade item.	0..1
	isNonSoldTradeItemReturnable			Trade Item Marking. Non Sold Returnable. Indicator	Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to General Merchandise, Publishing industries and for some FMCG trade item.	0..1
	isTradeItemMarkedAsRecyclable			Trade Item Marking. Recyclable. Indicator	Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies.	0..1
TradeItemMaterial				Additional_ Product_ Material Composition. Details		

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	materialWeight			Additional_ Product_ Material Composition. Thread Count_ Description. Text	The measured weight of the material expressed in ounces per square yard or grams per square meter.	0..1
	threadCount			Additional_ Product_ Material Composition. Material_ Weight. Measure	This element is used to specify the quality of material (fabric) of a trade item.	0..1
TradeItemMeasurements				Peer To Peer_Physical_ Trade Item Dimensions. Details	n.a.	
	genericIngredient			Peer To Peer_Physical_ Trade Item Dimensions. Generic_ Ingredient. Text	Used for pharmaceutical trade items to describe 1 or many generic ingredients within the trade item.	0..1
	ingredient-Strength			Peer To Peer_Physical_ Trade Item Dimensions. Ingredient Strength. Measure	Used for pharmaceutical trade item to define the strength of each ingredient in a trade item or unit volume of the trade item. Examples: "100mg" for a tablet, "2%" for a liquid or ointment, where 100 and 2 represent the value, and mg and % are the units of measure.	0..1
	isNetContentDeclarationIndicated			Peer To Peer_Physical_ Trade Item Dimensions. Net Content Declaration. Indicator	This field is used to facilitate local business rules where a declaration of a trade item's net content is not on the product label . Example: UK under 50g legislation. For a product without an on-pack net content declaration this field should be indicated as 'Y', weight should be communicated at the trade unit level	0..1
	priceComparisonContent Type			Peer To Peer_Physical_ Trade Item Dimensions. Price Comparison_ Content Type Code. Price Comparison Content Type_ Code	Code indicating how the value in Price Comparison Measurement is used to calculate the comparative price, which is printed on shelf labels.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
		depth	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Depth. Multi-unit Measure	The measurement from front to back of the trade item. Measurements are relative to how the customer normally views the trade item. Refer to EAN.UCC General Specifications for Trade Item Orientation Guidelines.	1..1
		diameter	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Diameter. Multi-unit Measure	The measurement of the diameter of the trade item at its largest point.	0..1
		drainedWeight	Measur MultiMeasurement- Value ment	Peer To Peer_Physical_ Trade Item Dimensions. Drained_ Weight. Multi-unit Measure	The weight of the trade item when drained of its liquid. Example: 225 "gm", Jar of pickles in vinegar.	0..1
		genericIngredientStrength	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Generic_ Ingredient Strength. Multi-unit Measure	Used for pharmaceutical trade items to define the strength of each generic ingredient in a trade item or unit volume of the trade item.	0..1
		grossWeight	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Gross_ Weight. Multi-unit Measure	Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade itemGrossWeight includes the weight of the pallet itself. Examples: "200 gm", value - total pounds, total grams, etc.	0..1
		Height	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Height. Multi-unit Measure	The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade itemHeight will include the height of the pallet itself. Example: "60 CMT".	1..1
		netContent	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Net_ Content. Multi-unit Measure	The amount of the trade item contained by a package, as claimed on the label. In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade items, which	0..1



## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					are sold by volume or weight, and whose actual content may vary slightly from batch to batch. In case of variable quantity trade items, indicates the average quantity. Examples: Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea."	
		netWeight	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Net_Weight. Multi-unit Measure	Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level. For consumer unit, Net Content replaces Net Weight (can then be weight, size, volume).	0..1
		priceCom- parisonMeas- urement	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Price_ Comparison Meas- urement. Multi-unit Meas- ure	The quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent. This field is dependent on the population of priceComparisonContentType and is required when price-ComparisonContentType is used.	0..1
		tradeItemCom- positionWidth	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Trade Item_Composition_ Width. Multi-unit Measure	The number of child-items that are packaged beside each other in a trade unit (on the side facing the consumer). This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf. The Space Manager always allocates Base Units in the shelf. Usually there are no pictures of Trade Units available and for Hypermarkets/Big Supermarkets there is a need to allocate whole trade units into the shelves.	0..1
		width	MultiMeasure- mentValue	Peer To Peer_Physical_ Trade Item Dimensions. Width. Multi-unit Measure	None	1..1
		None	PegMeasure- ments	Peer To Peer_Physical_ Trade Item Dimensions. Association. Peg Location	None	0..*
TradeItemOrder- Information				Trade Item Ordering. Details	n.a.	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
	isTradeItemRe-orderable			Peer To Peer_ Trade Item Ordering. Reorderable. Indicator	This element is an indicator that selected styles or trade items may or may not be re-ordered. It does not imply any information on current availability.	0..1
	isTradeItem-SizeBasedPricing			Peer To Peer_ Trade Item Ordering. Size Based Pricing. Indicator	This is an indicator that an item may be at a different price point than other similar SKUs (GTIN's price within a Style may differ).	0..1
	agreedMinimumBuyingQuantity			Peer To Peer_ Trade Item Ordering. Agreed Minimum Buying_ Quantity. Quantity	Minimum buying quantity agreed between trading partners.	0..1
	agreedMaximumBuyingQuantity			Peer To Peer_ Trade Item Ordering. Agreed Maximum Buying_ Quantity. Quantity	The maximum quantity of the product available to the retailer.	0..1
	FirstDelivery-DateTime			Peer To Peer_ Trade Item Ordering. First_ Delivery Date. Date Time	The earliest date at which the supplier can deliver the product to the trading partner.	0..1
	OrderingQuantityMaximum			Peer To Peer_ Trade Item Ordering. Maximum Order_ Quantity. Quantity	The maximum quantity of the trade item that can be ordered. A number or a count. This value can represent the total number of units ordered over a set period of time with multiple orders.	0..1
	OrderingQuantityMinimum			Peer To Peer_ Trade Item Ordering. Minimum Order_ Quantity. Quantity	Represent an agreed to minimum quantity of the trade item that can be ordered.	0..1
	orderQuantity-Multiple			Peer To Peer_ Trade Item Ordering. Order Multiple_ Quantity. Quantity	The order quantity multiples in which the trade item may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the trade item can only be ordered in quantities which are divisible by the Order Quantity Multiple of 20.	0..1
	orderingLead-Time		MultiMeasure-mentValue	Peer To Peer_ Trade Item Ordering. Ordering_ Lead Time. Multi-unit Measure	The normal delivery time measured from receipt of order by the seller until trade item is shipped by the seller. Examples: 12 hours, 48 hours, 4 days. Geographic distance from	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					Manufacturing/distribution point to delivery point may impact this value.	
	orderingSizeFactor		MultiMeasurementValue	Peer To Peer_ Trade Item Ordering. Order Sizing_ Factor. Multi-unit Measure	A trade item specification other than gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of trade item.	0..1
	goodsPickupLeadTime		MultiMeasurementValue	Peer To Peer_ Trade Item Ordering. Goods Pickup_ Lead Time. Multi-unit Measure	Time (in weeks, days, hours) required between order entry and the earliest goods release (use for pick-up, not use for delivery). Remark about ordering lead-time : Geographic distance from manufacturing / distribution point to delivery point impacts this value (relationship dependant data).	0..1
TradeItemPallet- Information				Pallet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	palletTermsAnd- Conditions			Pallet. Terms And Condi- tions. Text	Indicates if the pallet in the prescribed pallet configuration is rented, exchangeable, against deposit or one way (not reusable).	0..1
	palletTypeCode			Pallet. Type. Bilateral_ Code	Indicates whether the described dispatch unit is delivered on a pallet and on which type of pallet, or if it is non-palletized. If the dispatch unit is delivered on a pallet the pallet type must be given here. The range of the pallet types/codes is listed in code sets.	0..1
TradeItemPrice- DateInformation				Trade Item Price. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	effectiveEndDate			Trade Item Price. Effec- tive_ End Date. Date Time	!! The effective end date of the price is optional based upon the agreement by the trading partners. If an invalid end date is communicated, then it is implied that the price and its effective date are effective until further notice. Examples of invalid dates include 99/99/9999, 00/00/0000, blank, etc. These invalid end dates should not be communicated.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, last order date, last ship date, and last arrival date.	
	effectiveStart-Date			Trade Item Price. Effective_ Start Date. Date Time	!! This is the effective start date of the price agreed to by the trading partners. This start date is mandatory and, if no end date is communicated, then implies that the price is effective until further notice. Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, first order date, first ship date, and first arrival date.	1..1
	value			Trade Item Price. Price. Amount	!! The default value to be used for the field when that field is not present in the file.	1..1
TradeItem-SizeDescription				Trade Item Size. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	descriptiveSize			Trade Item Size. Description. Language_ Text	!! An alphanumeric size factor the brand owner wishes to communicate to the consumer. IE Jumbo, Capri, Full Length, Maxi 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
	sizeCode-ListAgency			Trade Item Size. Size Code List_ Agency. Text	The parties controlling the size code list. Dependent on size code value. If size code is indicated, sizeCode-ListAgency is required.	1..1
	sizeCodeValue			Trade Item Size. Code. Size_ Code	The value from a industry specific code list required to identify the size of the trade item. Can be a combination of values which fully describe the trade item size (32 waist, 36 inseam).	1..1
TradeItemTax-				Trade Item_ Tax Amount.	!! This class is part of the TradeItem Tax Information class.	

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi-plicity
Amount				Details		
	taxAmount			Trade Item_ Tax Amount. Amount. Amount	The current tax or duty or fee amount applicable to the trade item.	1..1
		None	TaxAgency	Trade Item_ Tax Amount. Association. Tax Type	None	1..1
TradeItemTaxInformation				Trade Item_ Tax Information Group. Details	!! This reusable class from Trade Item Tax Information is part of the Trading Partner Neutral Trade Item Information Class.	
		None	TradeItemTaxAmount	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Amount	None	1..*
		None	TradeItemTaxRate	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Rate	None	1..*
TradeItemTaxRate				Trade Item_ Tax Rate. Details	!! This class is part of the TradeItem Tax Information class.	
	taxRate			Trade Item_ Tax Rate. Percentage. Percent_ Numeric	The current tax or duty rate percentage applicable to the trade item.	1..1
		None	TaxAgency	Trade Item_ Tax Rate. Association. Tax Type	None	1..1
TradeItemTemperatureInformation				Trade Item Temperature Group. Details	n.a.	
		deliveryToDistributionCenterTemperatureMaximum	MultiMeasure-mentValue	Peer To Peer_ Trade Item Temperature Group. Delivery To DC_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item on transport to the distribution center. Examples: "+6 C" or degrees F, value.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
		deliveryToMarketTemperatureMaximum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Delivery To Market_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item during delivery to market. Examples: "+7 C" or degrees F, value.	0..1
		storageHandlingTemperatureMaximum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Storage Handling_ Maximum. Multi-unit Measure	The maximum temperature at which the trade item can be stored. When no other information is provided (temperatures to market or/and distribution center), this value applies at any point of the supply chain. Examples: "+15 F" or degrees C, value.	0..1
		deliveryToDistributionCenterTemperatureMinimum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Delivery To DC_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item on transport to the distribution center. Examples: "+2 C" or degrees F, value.	0..1
		deliveryToMarketTemperatureMinimum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Delivery To Market_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item during delivery to market to market. Examples: "+3 C" or degrees F, value.	0..1
		storageHandlingTemperatureMinimum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Storage Handling_ Minimum. Multi-unit Measure	The minimum humidity in percentages that the goods should be stored in.	0..1
		storageHandlingHumidityMinimum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Storage Handling Humidity_ Minimum. Multi-unit Measure	The minimum humidity in percentages that the goods should be stored in.	0..1
		storageHandlingHumidityMaximum	MultiMeasure- mentValue	Peer To Peer_ Trade Item Temperature Group. Storage Handling Humidity_ Maximum. Multi-unit Measure	The maximum humidity in percentages that the goods should be stored in.	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
TradeItemUnitIndicator				Peer To Peer_ Trade Item Processing. Details	N.A	
	isTradeItemA-BaseUnit			Peer To Peer_ Trade Item Processing. Trade Item_Base_ Unit. Indicator	An indicator identifying the trade item as the base unit level of the trade item hierarchy. This is Y/N (Boolean) where 'Y' indicates the trade item is a base unit. Examples: A bundle pack of product is composed of packages without GTINs that cannot be sold individually. This bundle pack would then be a base item. If that same bundle pack contained individual packages that have a GTIN + could be individually sold.	1..1
	isTradeItemAConsumerUnit			Peer To Peer_ Trade Item Processing. Trade Item Consumer_ Unit. Indicator	Identifies whether the current hierarchy level of a trade item is intended for a ultimate consumption. For retail, this trade item will be scanned at point of sale. At retail, this data is commonly used to select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be the intention of the retailer. Examples: A multi-pack of paper towels and the individual paper towels contained in the multi-pack are both identified as a consumer unit.	1..1
	isTradeItemADespatchUnit			Peer To Peer_ Trade Item Processing. Trade Item Despatch_ Unit. Indicator	An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit. This may be Trading Partner dependent based on channel of trade or other point to point agreement.	1..1
	isTradeItemAnInvoiceUnit			Peer To Peer_ Trade Item Processing. Trade Item Invoice_ Unit. Indicator	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be Trading Partner dependent based on channel of trade or other point to point agreement.	1..1
	isTradeItemAnOrderableUnit			Peer To Peer_ Trade Item Processing. Trade Item Orderable_ Unit. Indicator	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be relationship dependent based on channel	1..1

## Business Solution Design

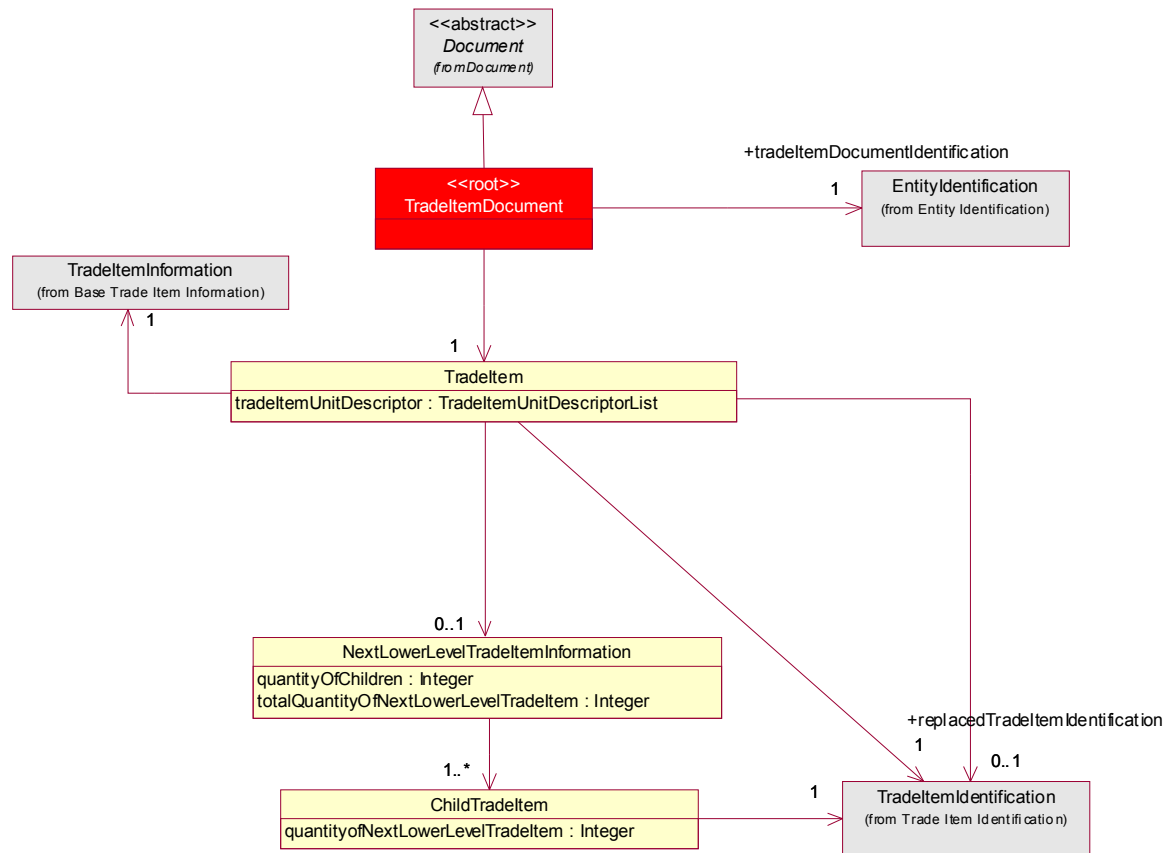
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi- plicity
					of trade or other point to point agreement.	
	isTradeItemVariableUnit			Peer To Peer_ Trade Item Processing. TradeItem Variable_ Unit. Indicator	Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume. trade item is used or traded in continuous rather than discrete quantities. Examples: A wheel of cheese: The weight is about 25 kilograms, but it can be 24 kilogram or 27 kilogram.	1..1
	priceByMeasureType			Peer To Peer_ Trade Item Processing. Price By Measure. Price By Measure Type Code_ Code	Indicator to show how a product is sold.	0..1
	variableTradeItemType			Peer To Peer_ Trade Item Processing. Variable Trade Item Type. Code	Indicator to show if a product is loose or pre-packed.	0..1

End of Report



### 1.5.3 Class Diagrams

#### 1.5.3.1 Class Diagram for Trade Item



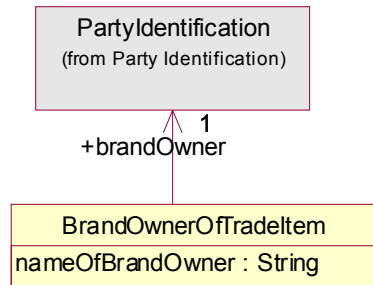




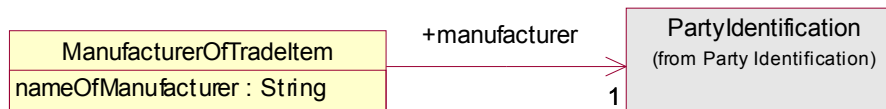
## Business Solution Design

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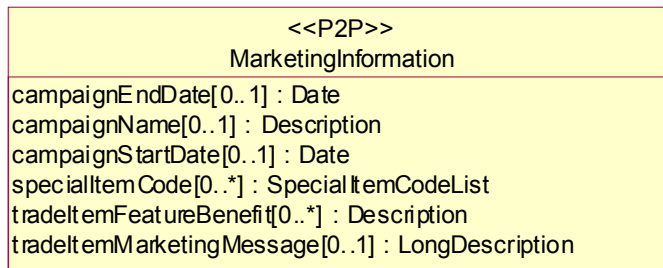
### 1.5.6 Class Diagram Brand Owner Of Trade Item



### 1.5.7 Class Diagram Manufacturer Of Trade Item



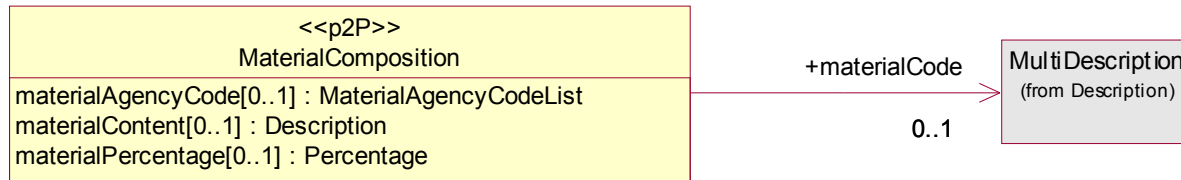
### 1.5.8 Class Diagram Marketing Information



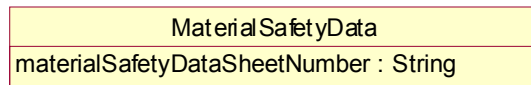
## Business Solution Design

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### 1.5.9 Class Diagram Material Composition



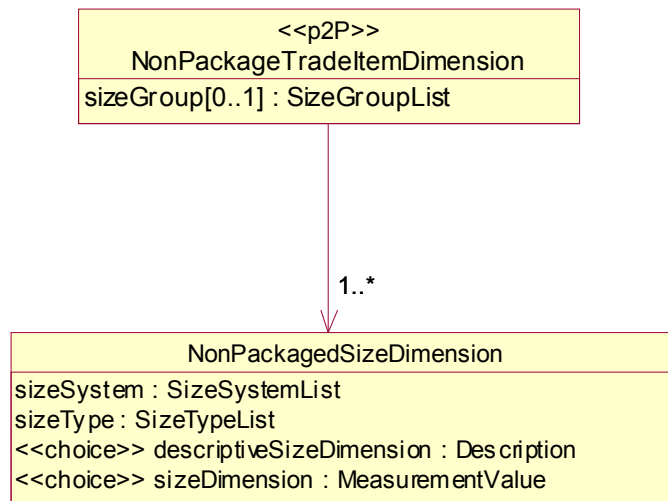
### 1.5.10 Class Diagram Material Safety Data



## Business Solution Design

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### 1.5.11 Class Diagram Non-Package Trade Item Dimension

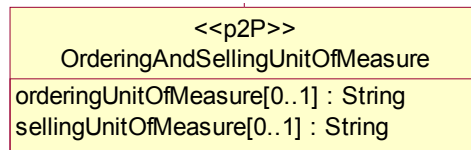


## Business Solution Design

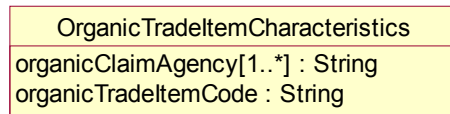
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### 1.5.12 Class Diagram Ordering And Selling Unit of Measure

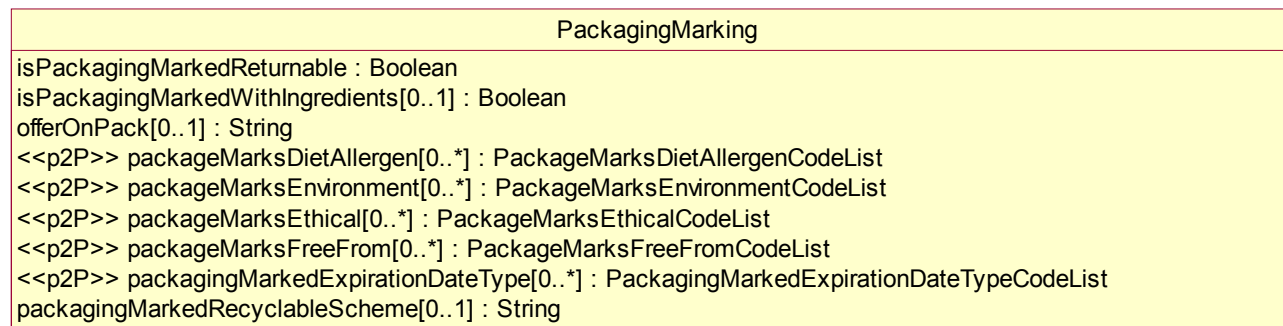
UN/ECE Recommendation 20 is referenced as possible values for unit of measure.



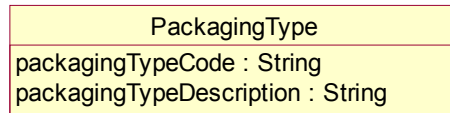
### 1.5.13 Class Diagram Organic Trade Item Characteristics



### 1.5.14 Class Diagram Packaging Marking



### 1.5.15 Class Diagram Packaging Type

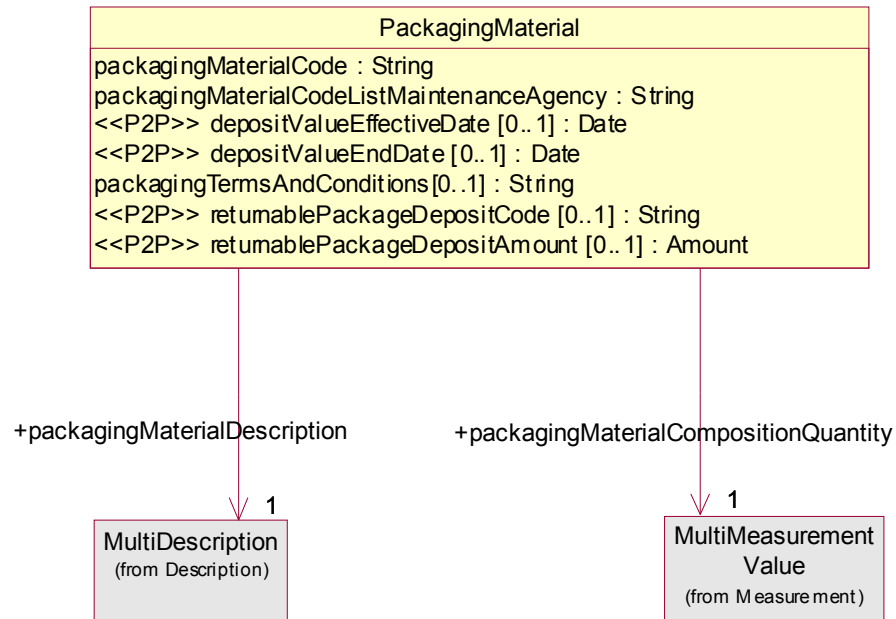




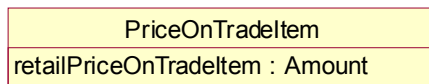
## Business Solution Design

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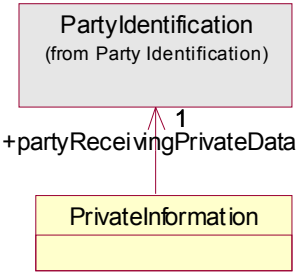
### 1.5.16 Class Diagram Packaging Material



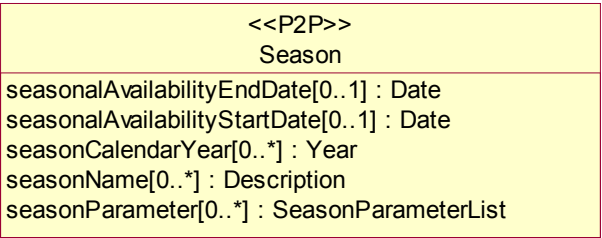
### 1.5.17 Class Diagram Price On Trade Item



1.5.18 Class Diagram Private Information



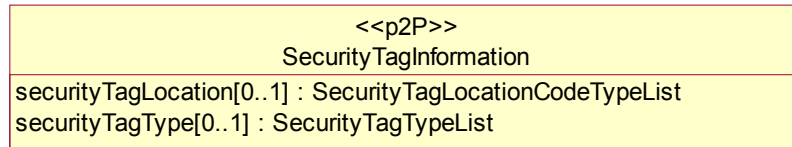
1.5.19 Class Diagram Season



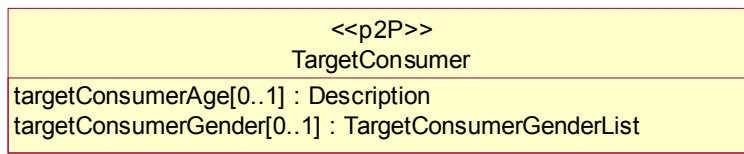
## Business Solution Design

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### 1.5.20 Class Diagram Security Tag Information

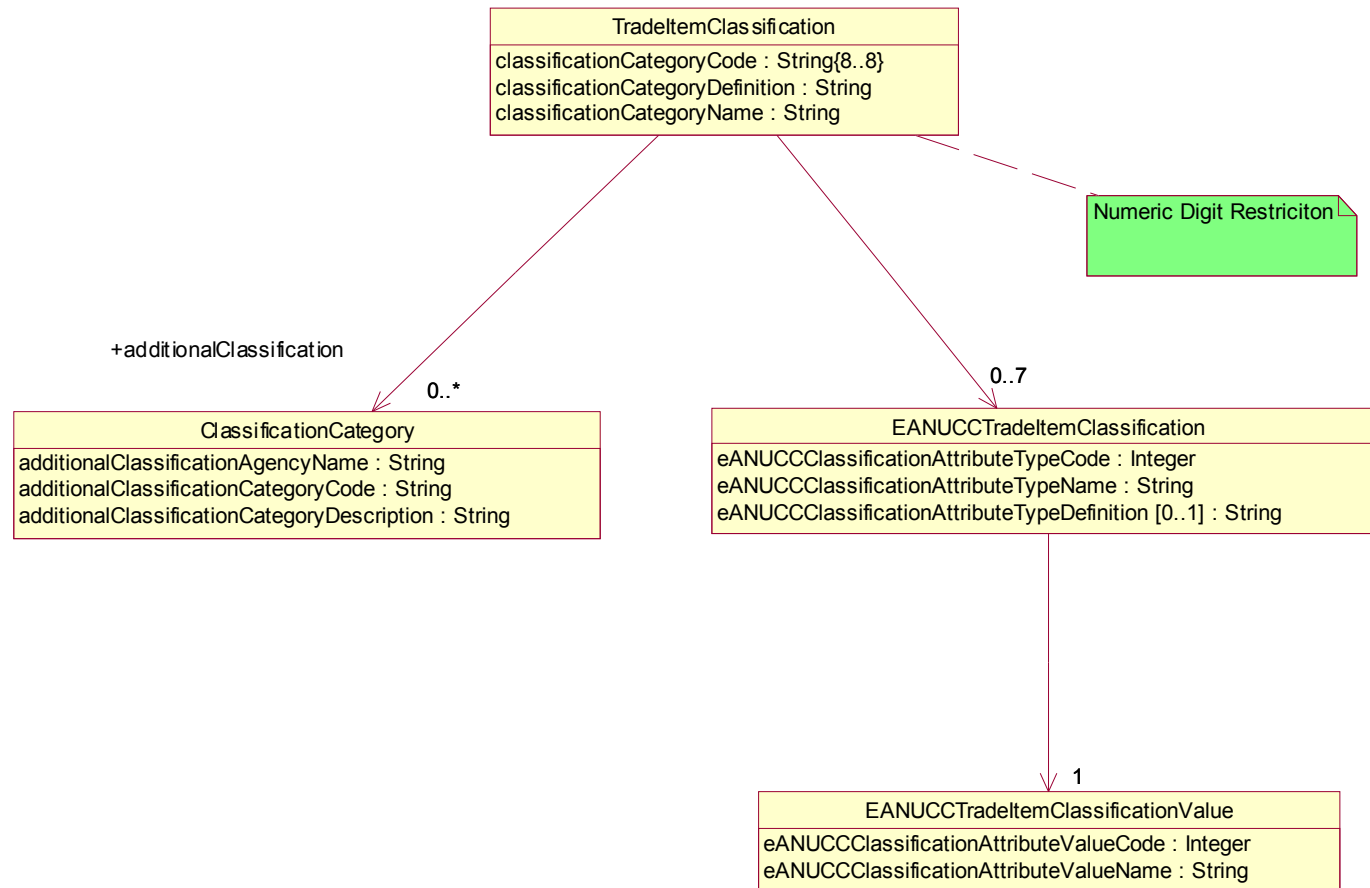


### 1.5.21 Class Diagram Target Consumer



## Business Solution Design

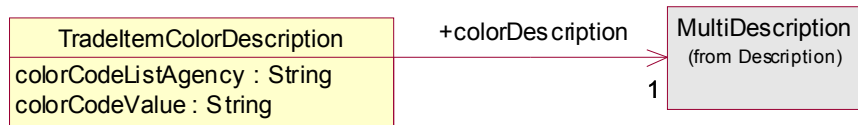
### 1.5.22 Class Diagram Trade Item Classification



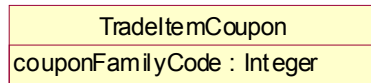
## Business Solution Design

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### 1.5.23 Class Diagram Trade Item Color Description



### 1.5.24 Class Diagram Trade Item Coupon



### 1.5.25 Class Diagram Trade Item Date Information

## Business Solution Design

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TradeItemDateInformation
effectiveDate : Date lastChangeDateTime : DateTime publicationDate : Date startAvailabilityDateTime : DateTime canceledDate[0..1] : Date consumerAvailabilityDateTime[0..1] : DateTime discontinuedDate[0..1] : Date endAvailabilityDateTime[0..1] : DateTime <<p2P>> endDateMaximumBuyingQuantity[0..1] : DateTime <<p2P>> endDateMinimumBuyingQuantity[0..1] : DateTime <<p2P>> endDateTimeOfExclusivity[0..1] : DateTime <<p2P>> firstOrderDate[0..1] : Date <<p2P>> firstShipDate[0..1] : Date <<p2P>> lastOrderDate[0..1] : Date <<p2P>> lastShipDate[0..1] : Date <<p2P>> startDateMaximumBuyingQuantity[0..1] : DateTime <<p2P>> startDateMinimumBuyingQuantity[0..1] : DateTime

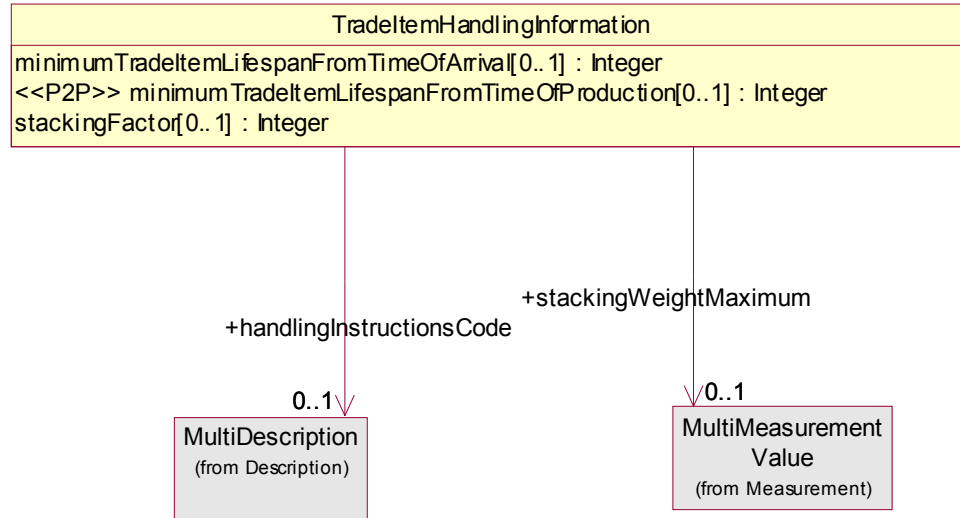
### 1.5.26 Class Diagram Trade Item Finish

<<p2P>> TradeItemFinish
tradeItemFinishDescription[0..1] : Description

### 1.5.27 Class Diagram Trade Item Handling Information

## Business Solution Design

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## Business Solution Design

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### 1.5.28 Class Diagram Trade Item Hierarchy

TradelItemHierarchy
quantityOfCompleteLayersContainedInATradelItem[0..1] : Integer quantityOfInnerPack[0..1] : Integer quantityOfLayersPerPallet[0..1] : Integer quantityOfNextLevelTradelItemWithinInnerPack[0..1] : Integer quantityOfTradelItemsContainedInACompleteLayer[0..1] : Integer quantityOfTradelItemsPerPallet[0..1] : Integer quantityOfTradelItemsPerPalletLayer[0..1] : Integer

### 1.5.29 Class Diagram Trade Item Import Identification

<<p2P>> TradelItemImportIdentification
importClassificationType[0..1] : ImportClassificationTypeList importClassificationValue[0..1] : String

### 1.5.30 Class Diagram Trade Item Marking

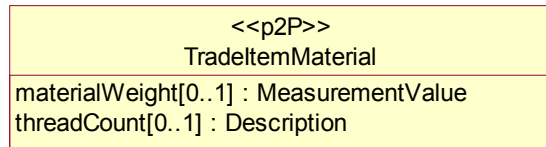
TradelItemMarking
hasBatchNumber[0..1] : Boolean isNonSoldTradelItemReturnable[0..1] : Boolean isTradelItemMarkedAsRecyclable[0..1] : Boolean



## Business Solution Design

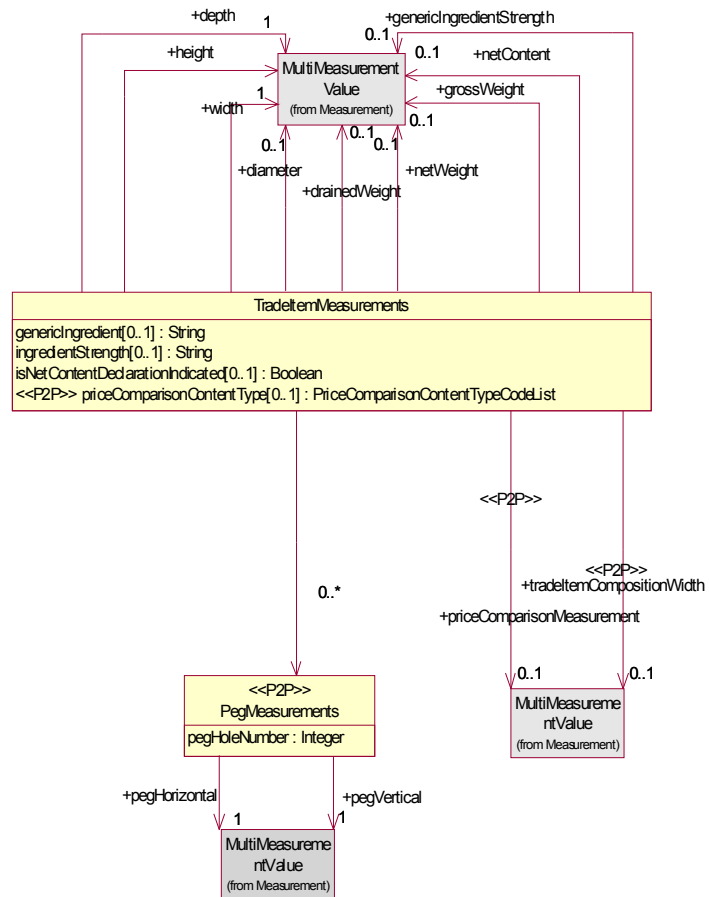
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### 1.5.31 Class Diagram Trade Item Material

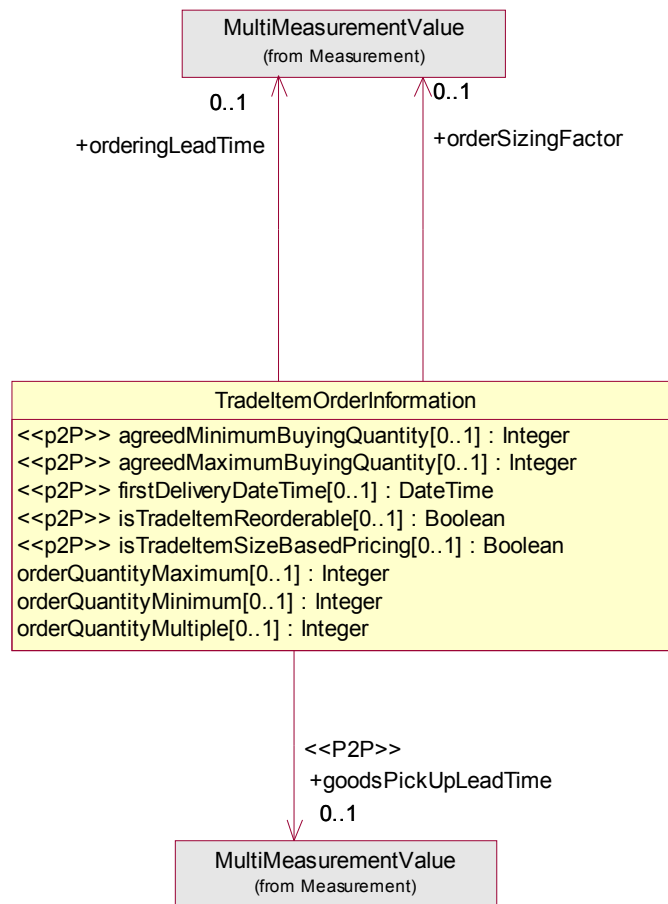


## Business Solution Design

### 1.5.32 Class Diagram Trade Item Measurements



### 1.5.33 Class Diagram Trade Item Order Information



## Business Solution Design

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### 1.5.34 Class Diagram Trade Item Pallet Information

TradeItemPalletInformation
palletTypeCode[0..1] : String
palletTermsAndConditions[0..1] : String

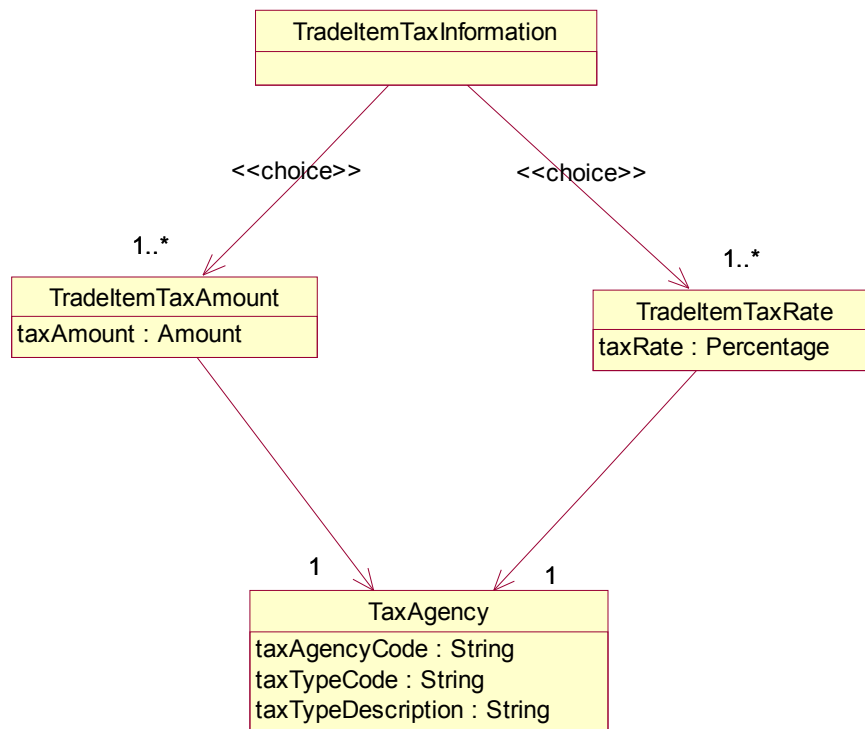
### 1.5.35 Class Diagram Trade Item Price Date

TradeItemPriceDateInformation
effectiveStartDate : Date
value : Amount
effectiveEndDate[0..1] : Date

### 1.5.36 Class Diagram Trade Item Size Description

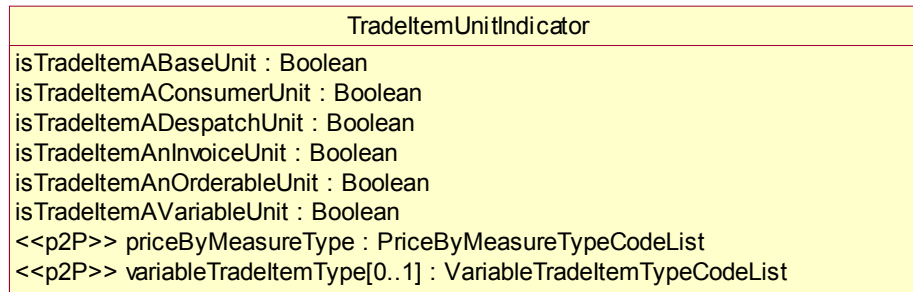
TradeItemSizeDescription
sizeCodeListAgency : String
sizeCodeValue : String
descriptiveSize[0..1] : Description

### 1.5.37 Class Diagram Trade Item Tax Information





### 1.5.39 Class Diagram Trade Item Unit Indicator



## Business Solution Design

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### 1.5.40 Code Lists

Code List Name	Code List Description
BarCodeTypeList	
COMPOSITE_COMPONENT_A	N/A
COMPOSITE_COMPONENT_B	N/A
COMPOSITE_COMPONENT_C	N/A
EAN_UCC_13_SYMBOL	N/A
EAN_UCC_14_SYMBOL	N/A
EAN_UCC_8_SYMBOL	N/A
ITF_14_SYMBOL	N/A
RSS_14	N/A
RSS_14_STACKED	N/A
RSS_14_STACKED_OMNIDIRECTIONAL	N/A
RSS_14_TRUNCATED	N/A
RSS_EXPANDED	N/A
RSS_EXPANDED_STACKED	N/A
RSS_LIMITED	N/A
UCC_EAN_128_SYMBOL	N/A
UPC_A_SYMBOL	N/A
UPC_E_SYMBOL	N/A



## Business Solution Design

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Code List Name	Code List Description
ClassComplianceRegulationCodeList	
Code Name	Code Description
COMPLIANT_WITH_FAIR_LABOR_STANDARDS_ACT	N/A
COMPLIANT_WITH_FLAMMABILITY_ACT	N/A
COMPLIANT_WITH_FUR_PRODUCT_LABELING_ACT	N/A
COMPLIANT_WITH_STATE_ENVIRONMENT_REQUIREMENTS	N/A
COMPLIANT_WITH_TEXTILE_FIBER_PRODUCT_IDENTIFICATION	N/A
COMPLIANT_WITH_WOOL_PRODUCTS_LABELING_ACT	N/A
VOLATILE_ORGANIC_COMPOUND_COMPLIANT	N/A

Code List Name	Code List Description
ImportClassificationTypeList	
Code Name	Code Description
CUSTOMS_TARIFF_NUMBER	N/A
HARMONIZED_COMMODITY_DESCRIPTION_AND_CODING_SYSTEM	N/A
HARMONIZED_TARIFF_SCHEDULE_OF_THE_US	N/A
INTRASTAT	N/A
INTRASTAT_COMBINED_NOMENCLATURE	N/A
NETHERLANDS	N/A
TARIF_INTEGRE_DE_LA_COMMUNAUTE	N/A

Code List Name	Code List Description
MaterialAgencyCodeList	
Code Name	Code Description
DIN6001_PART4	N/A

## Business Solution Design

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Code List Name	Code List Description
PackageMarksDietAllergenCodeList	
Code Name	Code Description
APPROVED_BY_ASTHMA_AND_ALLERGY_ASSOC	N/A
NYCKELHAL_MARK	N/A

Code List Name	Code List Description
PackageMarksEnvironmentCodeList	
Code Name	Code Description
EU_BLOMMA	N/A
FALKEN	N/A
GREEN_DOT	N/A
KRAV_MARK	N/A
SVANEN	N/A

Code List Name	Code List Description
PackageMarksEthicalCodeList	
Code Name	Code Description
FAIR_TRADE_MARK	N/A

## Business Solution Design

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Code List Name	Code List Description
PriceComparisonContentTypeCodeList	
Code Name	Code Description
DRAINED_WEIGHT	N/A
INCLUDING_ADDITIVES	N/A
MILLILITRES_EXCLUDING_DEPOSIT	N/A
PER_DOSE	N/A
PER_KILOGRAM	N/A
PER_LITRE	N/A
PER_LOAD	N/A
PER_METRE	N/A
PER_PIECE	N/A
PER_PINT	N/A
PER_POUND	N/A
PER_WASH	N/A
PER_YARD	N/A
READY_TO_DRINK	N/A
READY_TO_EAT	N/A

Code List Name	Code List Description
PriceByMeasureTypeCodeList	
Code Name	Code Description
AREA	N/A
COUNT	N/A
LENGTH	N/A
VOLUME	N/A
WEIGHT	N/A

## Business Solution Design

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Code List Name	Code List Description
SeasonParameterList	
Code Name	Code Description
ALL_YEAR	N/A
AUTUMN	N/A
SPRING	N/A
SUMMER	N/A
WINTER	N/A

Code List Name	Code List Description
SecurityTagLocationCodeTypeList	
CONCEALED_INSIDE_THE_TRADE_ITEM	N/A
INTEGRATED_INSIDE_OF_TRADE_ITEM	N/A
ON_OUTSIDE_OF_TRADE_ITEM	N/A

Code List Name	Code List Description
SecurityTagTypeList	
Code Name	Code Description
ACOUSTO_MAGNETIC_EAS_TAG	N/A
ELECTRO_MAGNETIC_EAS_TAG	N/A
INK_OR_DYE_EAS_TAG	N/A
MICROWAVE_EAS_TAG	N/A
RADIO_FREQUENCY_EAS_TAG	N/A

## Business Solution Design

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Code List Name	Code List Description
SizeGroupList	
Code Name	Code Description
BOYS	N/A
GIRLS	N/A
INFANTS	N/A
JUNIORS	N/A
MATERNITY	N/A
MENS	N/A
MENS_TALL	N/A
MISSES	N/A
PETITE	N/A
WOMENS	N/A
WOMENS_TALL	N/A

Code List Name	Code List Description
SizeSystemList	
AUSTRALIA	N/A
CONTINENTAL	N/A
EUROPE	N/A
JAPAN	N/A
MEXICO	N/A
UK	N/A
US	N/A

## Business Solution Design

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Code List Name	Code List Description
SizeTypeList	
BACK	N/A
COLLAR	N/A
CUP	N/A
INSEAM	N/A
LENGTH	N/A
ONE_DIMENSION	N/A
SLEEVE	N/A
WAIST	N/A
WIDTH	N/A

Code List Name	Code List Description
TargetConsumerGenderList	
Code Name	Code Description
FEMALE	N/A
MALE	N/A
UNISEX	N/A

Code List Name	Code List Description
SpecialItemCodeList	
Code Name	Code Description
COLLATERAL_ITEM	N/A
DYNAMIC_ASSORTMENT	N/A
GIFT_WITH_PURCHASE	N/A
PURCHASE_WITH_PURCHASE	N/A

## Business Solution Design

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Code List Name	Code List Description
VariableTradeItemTypeInfoCodeList	
Code Name	Code Description
LOOSE	N/A
PRE_PACKED	N/A

Code List Name	Code List Description
PackageMarksFreeFromCodeList	
FREE_FROM_EGG	N/A
FREE_FROM_GLUTEN	N/A
FREE_FROM_LACTOSE	N/A
FREE_FROM_MILK_PROTEIN	N/A
FREE_FROM_PEA_NUTS	N/A
FREE_FROM_SOYA	N/A
FREE_FROM_SUGAR	N/A
REDUCED_LACTOSE	N/A

Code List Name	Code List Description
PackagingMarkedExpirationDateTypeInfoCodeList	
BEST_BEFORE_DATE	N/A
EXPIRY_DATE	N/A

### 1.6 Business Document Example

### 1.7 Implementation Considerations

### 1.8 Testing

#### 1.8.1 Pass / Fail Criteria

*Unit testing criteria for business solution.*

Number	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1	Reflects a specific business requirement from a related BRAD. For example: When goods are ordered, the buyer requires an answer from the suppliers that the order has been received.	BRAD Name.Version. Req #	Message, role, attribute	Result which determines that requirement has been satisfied: For example:  Seller is able to create and send an Order Receipt Acknowledgement.	Result which shows that requirement has not been satisfied: For example:  Buyer does not receive the Order Receipt Acknowledgement.
2					
3					

#### 1.8.2 Test Data

Attribute	Value
Attribute Name. For example "orderQuantity"	Valid value associated with the attribute. For example "5".



### 1.9 Appendices

#### 1.10 Summary of Changes

*(Details changes to BMS for each version by BMS Section)*

Change	BMS Ver- sion	Associated CR Number
Section 4.2.2 – <ul style="list-style-type: none"><li>Added “xxxxx” class to Class Diagram</li></ul>	V 0.1	CR 01-00001

### 2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

[http://www.ean-ucc.org/global\\_smp/ean.ucc\\_standards.htm](http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm).

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
  - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
  - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
  - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

[http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0\\_14f7](http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7)

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest