

# **Business Message Standard (BMS)**

**for**

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

**BRG: Align**

**BMS Release: 2.0.2**

**Document Version: 9.0.2**

**Release Date: 31.03.2005**

*(dd.mm.cyy)*



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

### Business Requirements Document (BRAD) Reference

<b>BRD Title: Business Requirement Document For Peer-To-Peer Trade Item For Data Alignment (Data Definition)</b>
<b>BRD Date: 30.11.2004</b>
<b>BRD Version: Version 8.8</b>

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20.04.2007	9.0.2	Giovanni Biffi	Editorial Updates	Minor Editorial Updates 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

## Business Solution Design

### 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	Align
System Capabilities	EAN.UCC
Official Constraints	None

## 1.3 Additional Technical Requirements Analysis

### 1.3.1 Technical Requirements (optional)

Number	Statement	Rationale

# Business Solution Design

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## 1.4 Business Transaction View

### 1.4.1 Business Transaction Use Case Diagram

### 1.4.2 Use Case Description

<b>Use Case ID</b>	UC-1																							
<b>Use Case Name</b>																								
<b>Use Case Description</b>	<p>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.</p>																							
<b>Actors (Goal)</b>	<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 border="1" data-bbox="581 1150 1393 1453"> <thead> <tr> <th>Ac-tor's Name</th> <th>Description</th> <th>Buyer</th> <th>Seller</th> <th>3<sup>rd</sup> Party</th> </tr> </thead> <tbody> <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> </tbody> </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																				
<b>Performance Goals</b>																								
<b>Preconditions</b>	<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"> <tbody> <tr> <td>1</td> <td></td> </tr> </tbody> </table>	1														
1																
<b>Related Rules</b>	<table border="1"> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>															

## **Business Solution Design**

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### **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				

## Business Solution Design

### 1.5.2 GDD Report

#### Trade Item Document

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
CatalogueItem-Classification				GPC_Product Classification. Details	Not Available	
	classificationCategoryCode			GPC_Product Classification. Class. Identifier	Not Available	1..1
	classificationCategoryDefinition			GPC_Product Classification. Class Description. Text	System generated explanation of Global EAN.UCC category.	1..1
	classificationCategoryName			GPC_Product Classification. Class Name. Text	The system generated text equivalent of the Global EAN.UCC classification category code.	1..1
			ClassificationCategory	GPC_Product Classification.Association. Non-GPC_Product Classification	Not Available	0..*
			EANUCC-TradeItem-Classification	GPC_Product Classification.Association. GPC_Product Classification Attribute	Not Available	0..7

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ClassificationCategory				Non-GPC_ Product Classification. Details		
	additional-ClassificationAgencyName			Non-GPC_ Product Classification. Agency Name. Text	!! Text name of the additional external classification agency whose schema is being provided in addition to the Global EAN.UCC schema. Required if additional classification schema fields are populated	1..1
	additional-ClassificationCategoryCode			Non-GPC_ Product Classification. Class. Identifier	!! Category code based on alternate classification schema chosen in addition to EAN/UCC classification schema.	1..1
	additional-ClassificationCategoryDescription			Non-GPC_ Product Classification. Class Description. Text	!! Description of the additional classification bundle (code/agency + description).	1..1
EANUCC-Tradeltem-Classification				GPC_ Product Classification Attribute. Details		
	eANUCCClassificationAttributeTypeCode			GPC_ Product Classification Attribute. Type. Identifier	Unique 8 digit code which identifies the Global EAN.UCC classification attribute.	1..1
	eANUCCClassificationAttributeTypeDefinition			GPC_ Product Classification Attribute. Type Definition. Text	System generated explanation of Global EAN.UCC attribute.	0..1
	eANUCCClassificationAttribute-			GPC_ Product Classification Attribute. Type Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute code	1..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	uteTypeNam e					
		None	EANUCC- TradeItem- Classifica- tionValue	GPC_ Product Classifica- tion Attribute. Association. GPC_ Product Classifica- tion Attribute Value	None	1..1
EANUCC- TradeItem- Classifica- tionValue				GPC_ Product Classifica- tion Attribute Value. De- tails		
	eANUCClas sificationAt- tributeVal- ueCode			GPC_ Product Classifica- tion Attribute Value. Code. Identifier	!! Unique 8 digit code which identifies the Global EAN.UCC classification attribute value.	1..1
	eANUCClas sificationAt- tributeValu- eName			GPC_ Product Classifica- tion Attribute Value. Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute value code.	1..1
ChildTrade- Item				Child_ Trade Item. Details	Not Available	
	quantity- ofNextLower LevelTrade- Item			Child_ Trade Item. Quan- tity. Quantity	!! The number of next lower level trade item that this trade item contains.	1..1
		None	Trade- ItemIdentifica- tion	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 con- tains .	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Information-Provider				Information Provider_Party. Details	!! This class is part of the Trade Item Information Class	
	nameOfInformation-Provider			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
NextLower-LevelTrade-ItemInformation				Next Lower Level_ Trade Item Containment. Details	!! This class originates in the root class TradeItem	
	quantityOf-Children			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
	totalQuantityOfNextLower-LevelTrade-Item			Next Lower Level_ Trade Item Containment. Total_ Quantity. Quantity	This represents the Total quantity of next lower level trade items that this trade item contains.	1..1
		None	ChildTrade-Item	Next Lower Level_ Trade Item Containment. Association. Child_ Trade Item	None	1..*
TargetMarketInformation				Named_ Target Market. Details	!! This is a reusable class from Trade Item Common and referenced as part of the Trade Item Information class.	
	targetMar-			Named_ Target Market.	The target market code indicates the country	1..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	ketCountry-Code			Country. ISO3166_1_Code	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.	
	targetMarketDescription			Named_ Target Market. Description. Language_ Text	The name for the specific target market identified with the Target Market Country Code . Target market description is composed of both text and a language code. The description will be generated from the ISO 3166-1 code list. The language code will be generated from the ISO 639 code list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	1..1
	targetMarketSubdivisionCode			Named_ Target Market. Subdivision. ISO3166_2_Code	The Target Market Subdivision Code is the secondary code of the Target Market and must be a subdivision of a Target Market Country Code. The Target Market Subdivision Code describes the "geo-political subdivision of a country" where the trade item is available for sale, as determined by the information provider. For example, "State" in the US, "Land" in Germany, "Region" in France, or "Province" in Canada. Not all countries have subdivisions. This code is represented by the three-character ISO 3166-2 code. This Target Market Subdivision Code is a dependent attribute. It is important to note that the lack of the Target Market Subdivision code implies that the trade item	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					is available in the entire target market country.	
TradeItem				Trade Item. Details	!! Trade Item is the root class within the TradeItemDocument.	
	tradeItemUnitDescriptor			Trade Item. Unit Descriptor. Unit Descriptor_ Code	Describes the hierarchical level of the trade item. TradeItemUnitIndicator is mandatory. Examples: "CASE" , "PALLET"	1..1
		NextLowerLevelTradeItemInformation	NextLowerLevelTradeItemInformation	Trade Item. Association. Next Lower Level_ Trade Item Containment	Not Available	0..1
		None	TradeItemIdentification	Trade Item. Association. Trade Item Identification	None	1..1
		replacedTradeItemIdentification	TradeItemIdentification	Trade Item. Replaced. Trade Item Identification	!! This is a role from the Trade Item Class.	0..1
		None	TradeItemInformation	Trade Item. Association. Trade Item Information Group	None	1..1
TradeItemDescriptionInformation				Trade Item Description. Details	!! This class is part of the Trade Item Information Class	
	brandName			Trade Item Description. Brand. Text	!! The recognisable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer.	1..1
	produc-			Trade Item Description.	!! A name, used by a BrandOwner, that span	0..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	tRange			Product Range. Text	multiple consumer categories or uses. E.g. (Waist Watchers).	
	subBrand			Trade Item Description. Sub_ Brand. Text	Second level of brand. Can be a trademark. It is the primary 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			Trade Item Description. Form_ Description. Text	!! The physical form or shape of the product. Used, for example, in pharmaceutical industry to indicate the formulation of the trade item. Defines the form the trade item takes and is distinct from the form of the packaging.	0..*
	tradeItem-GroupIdentification-Code			Trade Item Description. Group. Identifier	!! A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.	0..1
	linkToExternalDescription			Trade Item Description. Link To External Description. Text	!!The link (e.g. URL) to the external description.	0..1
		description-Short	MultiDescription	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.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, 1-30, as defined in the Trade Item BRD.	0..1
		functional-Name	MultiDescription	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.The	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					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.	
		invoice-Name	MultiDescription	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. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..1
		tradeItem-GroupIdentificationDescription	MultiDescription	Trade Item Description. Group. Multi-language Description	The text description of the value represented by the trade itemGroupIDCode.	0..*
		variant	MultiDescription	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. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..*
		None	MultiLongDescription	Trade Item Description. Long_ Description. Long_ Multi-language Description	The concatenated product description of a product or service. This is a derived attribute resulting from the concatenation of 4 other	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				tion	attributes of up to 35 characters each (seeSection 4.7 of the Implemenation Considerations and Concerns.). When implemented, these four attributes may be concatenated as appropriate. Item description is part of the set of core data that will be stored in the Registry.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, 1-143, as defined in the Trade Item BRD.	
		additional-TradeItem-Description	MultiLongDescription	Trade Item Description. Additional_ Description. Long_ Multi-language Description	Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Color, and Fragrance.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, 1-350, as defined in the Trade Item BRD.	0..1
TradeItem-Document				Trade Item Alignment. Details	!! This is the root class of the Trade Item Message.	
		None	Document	Trade Item Alignment. Inheritance_ Association. Electronic_ Document	None	1..1
		tradeItem-Document-Identification	EntityIdentification	Trade Item Alignment. Association. Entity Identification	!! This is a role from the TradeItemDocument root class. The destination class is Entity-Identification.	1..1

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		None	TradeItem	Trade Item Alignment. Association. Trade Item	None	1..1
Trade-ItemIdentification				Trade Item Identification. Details	Not Available	
	globalTrade-ItemNumber			Trade Item Identification. Primary_ Identification. GTIN_ Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1
		None	Additional-Trade-ItemIdentification	Trade Item Identification. Additional. Non GTIN_ Trade Item Identification	Not Available	0..*
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-ProviderOf-TradeItem	Information-Provider	Trade Item Information Group. Association. Information Provider_ Party	None	1..1
		None	Payment-Terms	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	0..*

## Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					Standard for Payment Terms Extension, July 2001.	
		None	TargetMarket-Information	Trade Item Information Group. Association. Named_ Target Market	None	0..*
		None	TradeItem-Classification	Trade Item Information Group. Classification Category Code_ Association. Product Classification	None	0..1
		None	TradeItemDescription-Information	Trade Item Information Group. Association. Trade Item Description	None	1..1
		None	TradingPartnerNeutral-TradeItem-Information	Trade Item Information Group. Association. Trading Partner Neutral_ Trade Item	None	1..1

## Business Solution Design

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### Trading Partner Neutral Trade Item Information

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
BrandOwnerOfTradeItem				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	PartyIdentification	Brand Owner_ Party. Association. Party Identification	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
ManufacturerOfTradeItem				Manufacturer_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	nameOf-Manufacturer			Manufacturer_ Party. Name. Text	Descriptive name of the manufacturer of the trade item.	0..1
		manufacturer	PartyIdentification	Manufacturer_ Party. Association. Party Identification	None	1..1
MarketingIn-				Trade Item_ Marketing.	Not Available	

## Business Solution Design

Information				Details		
	campaignEnd-Date			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
	campaign-Name			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
	campaign-StartDate			Trade Item_ Marketing. Start_ Campaign Date Time. Date Time	The date suggested by the supplier for the campaign to start. It indicates the beginning of a marketing campaign.	0..1
	special-ItemCode			Trade Item_ Marketing. Special Item Code. Special Item Code_ Code	This element identifies specific items for promotional or special tracking purposes.	0..*
	tradeItem-Feature-Benefit			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..*
	tradeItem-Marketing-Message			Trade Item_ Marketing. Marketing_ Message. Language_ Text	Marketing message associated to the Trade item.	0..1
Material-Composition				Product_ Material Composition. Details	None	
	materialAgencyCode			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	Net weight percentage of a product material of the first main material. The percent-	0..1

## Business Solution Design

				centage. Percent_ Numeric	ages must add up to 100.	
		material-Code	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
Material-SafetyData				Material Safety Data Sheet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	material-Safety-DataSheet-Number			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
NonPackagedSize-Dimension				Apparel_Home Fashions_ Product Size Group. Details	None	
	descriptive-SizeDimension			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 measurement 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.	0..1
	sizeType			Apparel_Home Fashions_ Product Size Group.	The type of size dimension being specified by the size measurement.	1..1

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				Size_ Type. Size Type Code_ Code		
NonPack- ageTrade- ItemDimen- sion				Apparel_ Home Fash- ions_ Product Size. De- tails	None	
	sizeGroup			Apparel_ Home Fash- ions_ Product Size. Size_ Group Type. Size Group Code_ Code	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
		None	NonPack- agedSizeDi- mension	Apparel_ Home Fash- ions_ Product Size. Asso- ciation. Apparel_ Home Fashions_ Product Size Group	None	1..*
Orderin- gAndSellin- gUnitOf- Measure				Ordering_ Selling_ Trade Item Unit Information. Details	None	
	orderingUni- tOfMeasure			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 un- der another Unit of Measure.	0..1
	sellingUni- tOfMeasure			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
Organic- TradeItem- Characteris- tics				Organic_ Trade Item. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	

## Business Solution Design

	organic-ClaimAgency			Organic_ Trade Item. Claim_Agency Name. Text	A Governing body that creates and maintains standards related to organic products.	1..*
	organic-TradeItemCode			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
Packaging-Marking				Packaging Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	isPackagingMarkedReturnable			Packaging Marking. Returnable_Marking. Indicator	Trade item has returnable packaging. This is a yes/no (Boolean) where yes equals package can be returned. Attribute applies to returnable packaging with or without deposit.	1..1
	isPackagingMarkedWithIngredients			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			Packaging Marking. offerOnPack. Text	Contains details of any on pack product offer (consumer or traded).	0..1
	package-MarksDietAllergen			Trade Item_ Packaging Marking. Diet Allergen_Marked As. Package Marks Diet Allergen Code List_ Code	Indication of which dietary or allergen marks that are on the package.	0..*
	package-MarksEnvironment			Trade Item_ Packaging Marking. Environment_Marked As. package Marks Environment Code List_ Code	Indication of which environmental marks (e.g. recycling schemes) that are on trade item package.	0..*
	package-			Trade Item_ Packaging	Indication of which ethical trading marks	0..*

## Business Solution Design

	MarksEthical			Marking. Ethical_ Marked As. Package Marks Ethical Code List_ Code	that are on the package.	
	package-MarksFree-From			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 package.	0..*
	packaging-MarkedExpiration-DateType			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..*
	packaging-MarkedRecyclableScheme			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
Packaging-Material				Packaging Material. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	packaging-Material-Code			Packaging Material. Type. Packaging Material_ Code	The code identifying the type of package used as a container of the trade item.	1..1
	packaging-TermsAnd-Conditions			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 reuseable.	0..1
	return-ablePackageDepositCode			Packaging Material. Returnable Package_ Deposit Code. Text	In some markets the deposit information is specified by a 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.	0..1

## Business Solution Design

	returnable PackageDe- positAmount			Packaging Material. Re- turnable Package_ De- posit_Amount. Amount	The monetary amount for the individual returnable package.	0..1
	packaging- Material- CodeList- Mainte- nanceAgenc y			Packaging Material. Code List Maintenance Agency. Text	The agency or agencies controlling the packaging code lists of each country.	1..1
	depositVal- ueEffective- Date			Packaging Material. Effec- tive_ Deposit Value Date. Date Time	First date that the deposit value is valid for the deposit code. CCYYMMDD.	0..1
	depositVal- ueEndDate			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
		packaging- MaterialDe- scription	MultiDescrip- tion	Packaging Material. De- scription. Multi-language Description	The system generated text description equivalent of the packaging material code. 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 de- fined in the Trade Item BRD.	1..1
		packaging- Material- Composi- tionQuantity	MultiMeas- urementValue	Packaging Material. Com- position 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
Packaging- Type				Packaging. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	packaging- TypeCode			Packaging. Type. Packag- ing Type_ Code	The code identifying the type of package used as a container of the trade item.	1..1
	packaging- TypeDe-			Packaging. Description. Text	System generated text description of the type of packaging used for the trade item.	1..1

## Business Solution Design

	scription					
PegMeas- urements				Peg Location. Details	This class enables the description of multiple peg holes and their locations for a trade item.	
	pegHole- Number			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
		pegHorizon- tal	MultiMeas- urementValue	Peg Location. Peg_ Hor- izontal. 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 peg is inserted when the trade item is displayed on a pegboard. Example: "2 INH." Re- quired if the trade item is displayed on a peg board.	1..1
		pegVertical	MultiMeas- urementValue	Peg Location. Peg_ Verti- cal. 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
PriceOn- Tradeltem				Price_ Packaging Mark- ington. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
		None	retailPriceOn- Tradeltem	Price_ Packaging Mark- ington. Trade Item Retail Price	!! The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field priceOnPackIndi- cator.	1..1

## Business Solution Design

PrivateIn-formation				Private Data Recipient_Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
		partyReceivingPrivate-Data	PartyIdentification	Private Data Recipient_Party. Association. Party Identification	None	1..1
Season				Trade Item_ Season. Details	None	
	seasonalAvailabilityEnd-Date			Trade Item_ Season. Seasonal_End_ Availability Date. CCYYMMDD hhmm_ Date Time	Indicates the end date of the trade item's seasonal availability.	0..1
	seasonalAvailabilityStart-Date			Trade Item_ Season. Seasonal_Start_ Availability Date. CCYYMMDD hhmm_ Date Time	Indicates the start date of the trade item's seasonal availability.	1..1
	seasonCalendarYear			Trade Item_ Season. Season_ Calendar Year. Text	This element indicates the calendar year in which the trade item is seasonally available.	0..*
	season-Name			Trade Item_ Season. Season_Name_ Description. Text	Element defines the season applicable to the item.	0..*
	season-Parameter			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..*
Security-TagInformation				Security Tag. Details	n.a	
	securityTag-Location			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, Con-	0..1

## Business Solution Design

					cealed inside Trade Item, Integrated Inside Trade Item.	
	security-TagType			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
TargetConsumer				Trade Item_ Target Consumer. Details	None	
	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
		targetConsumerAge	MultiDescription	Trade Item_ Target Consumer. Target Consumer Age_ Association. Multi-language Description	Identifies the target consumer age range for which a trade item has been designed.	0..1
TradeItemColorDescription				Trade Item Colour. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	colorCodeListAgency			Trade Item Colour. Colour Code_ Agency. Text	The parties controlling the color code lists. Dependent on color code value. If color code is indicated, colorCodeListAgency is required.	1..1
	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	1..1

## Business Solution Design

					code agency is will use.	
		colorDe- scription	MultiDescrip- tion	Trade Item Colour. De- scription. 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 Sectionn 4.4 of the Implementation Considerations and Con- cerns for more details. Sector specific extension.The schema uses common library component as shown in the GDD Max Size field. For the business require- ments for item, please use the specific definition of this data type and field, 1-70, as defined in the Trade Item BRD.	0..1
TradeItem- Coupon				Trade Item Coupon. De- tails	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	coupon- FamilyCode			Trade Item Coupon. Fam- ily. 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- DateInfor- mation				Trade Item Date Group. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	canceled- Date			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 can- cellation.	0..1

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	consumerA- availability- DateTime			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.	0..1
	discontin- uedDate			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).	0..1
	effective- Date			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.	1..1
	endAvailabil- ityDateTime			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.	0..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. This field allows the data pool to control the trade item data version, and allows the information user to determine if trade item data should be downloaded. Date format CCYY-MM-DDTHH:MM:SS.	1..1
	publication- Date			Trade Item Date Group. Publication_ Date. CCYYMMDD_ Date Time	A date on which all static data associated with the trade item becomes available for viewing and synchronisation.	1..1
	startAvail-			Trade Item Date Group.	The date (CCYY-MM-DDTHH:MM:SS)	1..1

## Business Solution Design

	ability- DateTime			Start Availability_ Date. CCYYMMDD hhmm_ Date Time	from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services.	
	endDate- Maximum- Buy- ingQuantity			Trade Item Date Group. Maximum Buying Quantity End_ Date. Date Time	The end date for when the maximum buying quantity is no longer available to the trading partner.	0..1
	endDateMini- mumBuy- ingQuantity			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
	end- DateTimeOf Exclusivity			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
	firstOrder- Date			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			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
	lastOrder- Date			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			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
	startDate- Maximum- Buy- ingQuantity			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
	start- DateMini- mumBuy- ingQuantity			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

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TradeItem-Finish				Product Finish. Details	n.a	
	tradeItem-FinishDe-scription			Product Finish. Finish_ Description. Text	Additional Attribute which defines the outer sur-face/appearance of the product.	0..1
TradeItem-HandlingIn-formation				Trade Item Handling. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	minimum-TradeItem-Lifespan-FromTimeOfArrival			Trade Item Handling. Lifespan. Duration_ Measure	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 system. Can be repeatable upon use of GLN.	0..1
	minimum-TradeItem-Lifespan-From-TimeOfPro-duction			Trade Item Handling. Minimum From Production Time_Trade Item_ Life-span. Measure	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.	0..1
	stackingFactor			Trade Item Handling. Stacking_ Factor. Integer_ Numeric	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.	0..1
		None	HandlingIn-structionCode	Trade Item Handling. Instruc-tion.Association.Handling Instruction Code	Defines the information and processes needed to safely handle the trade item. Handling instructions is composed of both text and a language code. The language for text is specified using the two digit ISO 639-1988 list, for example, English is EN and French is FR. The schema uses common library component as shown in	0..*

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					the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-5, as defined in the Trade Item BRD.	
		stacking-Weight-Maximum	MultiMeasurementValue	Trade Item Handling. Stacking Maximum_Weight. Multi-unit Measure	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. 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.	0..1
TradeItem-Hierarchy				Trade Item Containment. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	quantityOf-Complete-LayersContainedInA-TradeItem			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
	quantity-OfInnerPack			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
	quantity-OfLayersPerPallet			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
	quantity-OfNextLevelTradeItemWithinInnerPack			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

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	quantityOf-TradeItemsContainedInACompleteLayer			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
	quantityOf-Trade-ItemsPer-Pallet			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
	quantityOf-Trade-ItemsPer-PalletLayer			Trade Item Containment. Items Per Pallet Layer_ Quantity. Quantity	The number of trade items contained on a single layer of a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet layer according to supplier or retailer preferences.	0..1
Trade-ItemImport-Identification				Trade Item_ Import Classification. Details	None	
	importClassification-Type			Trade Item_ Import Classification. Import_ Classification Type. Import Classification Type Code_ Code	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
	importClassification-Value			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,	0..1

## Business Solution Design

					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	
TradeItem-Marking				Trade Item Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	hasBatch-Number			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
	isNonSold-TradeItem-Returnable			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
	isTrade-ItemMarkedAsRecyclable			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
TradeItem-Material				Additional_ Product_ Material Composition.	None	

## Business Solution Design

				Details		
	material-Weight			Additional_ Product_ Material Composition. Material_ Weight. Measure	The measured weight of the material expressed in ounces per square yard or grams per square meter.	0..1
	threadCount			Additional_ Product_ Material Composition. Thread Count_ Description. Text	This element is used to specify the quality of material (fabric) of a trade item.	0..1
TradeItem-Measurements				Physical_ Trade Item Dimensions. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	genericIngredient			Physical_ Trade Item Dimensions. Generic_ Ingredient. Text	Used, for pharmaceutical trade item to describe 1 or many generic ingredients within the trade item.	0..1
	ingredient-Strength			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.	0..1
	isNetContentDeclarationIndicated			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 e.g., UK under 50g.legislatio	0..1
		depth	MultiMeasurementValue	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. Needs to be associated with a valid UoM.	1..1
		diameter	MultiMeasurementValue	Physical_ Trade Item Dimensions. Diameter. Multi-unit Measure	The measurement of the diameter of the trade item at its largest point. For example, 165 "mmt", value - mmt, diameter. Has to be associated with valid UoM.	0..1
		drained-	MultiMeas-	Physical_ Trade Item	The weight of the trade item when drained	0..1

## Business Solution Design

		Weight	MeasurementValue	Dimensions. Drained_Weight. Multi-unit Measure	of its liquid. For examples 225 "gm", Jar of pickles in vinegar. Applies to defined bricks of GCI Global trade item Classification - Mainly food trade item. Has to be associated with a valid UoM.	
		genericIngredient-Strength	MultiMeasurementValue	Physical_ Trade Item Dimensions. Generic_Ingredient Strength. Multi-unit Measure	Used, for pharmaceutical trade item to define the strength of each generic ingredient in a trade item or unit volume of the trade item. Repeated per generic substance. Needs to be associated with a valid UoM.	0..1
		grossWeight	MultiMeasurementValue	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. For example, "200 gm", value - total pounds, total grams, etc. Has to be associated with a valid UoM.	0..1
		height	MultiMeasurementValue	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. Business Rules: Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1
		netContent	MultiMeasurementValue	Physical_ Trade Item Dimensions. Net_Content. Multi-unit Measure	The amount of the trade item contained by a package, as claimed on the label. For example, Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea.". In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the	0..1

## Business Solution Design

					value claimed on the package, to avoid variable fill rate issue that arises with some trade item which 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.	
		netWeight	MultiMeasurementValue	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). Has to be associated with a valid UoM.	0..1
	priceComparisonContentType			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
		priceComparisonMeasurement	MultiMeasurementValue	Physical_ Trade Item Dimensions. Price_ Comparison Measurement. Multi-unit Measure	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 priceComparisonContentType is used.	0..1
		tradeItemCompositionWidth	MultiMeasurementValue	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	0..1

## Business Solution Design

					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.	
		width	MultiMeasurementValue	Physical_ Trade Item Dimensions. Width. Multi-unit Measure	The measurement from left to right of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1
		None	PegMeasurements	Physical_ Trade Item Dimensions. Association. Peg Location	None	0..*
TradeItemOrderInformation				Trade Item Ordering. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	isTradeItemReorderable			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
	isTradeItemSizeBasedPricing			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
	agreed-MinimumBuyingQuantity			Trade Item Ordering. Agreed Minimum Buying_Quantity. Quantity	Minimum buying quantity agreed between trading partners.	0..1
	agreed-Maximum-BuyingQuantity			Trade Item Ordering. Agreed Maximum Buying_Quantity. Quantity	The maximum quantity of the product available to the retailer.	0..1
	FirstDeliv-			Trade Item Ordering.	The earliest date at which the supplier	0..1

## Business Solution Design

	eryDateTime			First_ Delivery Date. Date Time	can deliver the product to the trading partner.	
	ordering-LeadTime			Trade Item Ordering. Lead_ Time. Duration_ Measure	!! The normal delivery time measured from receipt of order by the seller until trade item is shipped by the seller.	0..1
	orderQuantityMaximum			Trade Item Ordering. Maximum_ 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
	orderQuantityMinimum			Trade Item Ordering. Minimum_ Quantity. Quantity	Represent an agreed to minimum quantity of the trade item that can be ordered. A number or a count. This applies to each individual order. Can be a fixed amount for all customers in a target market.	0..1
	orderQuantityMultiple			Trade Item Ordering. 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
		goodsPick-UpLeadTime	MultiMeas-urementValue	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
		orderSizing-Factor	MultiMeas-urementValue	Trade Item Ordering. 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,	0..1

## Business Solution Design

					reflecting different weights, and dimensions of trade item.	
TradeItem-PalletInformation				Pallet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	palletTermsAndConditions			Pallet. Terms And Conditions. 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
TradeItem-PriceDateInformation				Trade Item Price. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	effectiveEndDate			Trade Item Price. Effective_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. 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	0..1

## Business Solution Design

					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
		None	Trade Item Price.Detail	Trade Item Price. Association. Trade Item Price.Detail	!! 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.	
	descriptive-Size			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, sizeCodeListAgency is required.	1..1
	sizeCode-Value			Trade Item Size. Code. Size_Code	The value from a industry specific code list required to identify the size of the	1..1

## Business Solution Design

					trade item. Can be a combination of values which fully describe the trade item size (32 waist, 36 inseam).	
TradeItem-TaxInformation				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	TradeItem-TaxAmount	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Amount	The current tax or duty or fee amount applicable to the trade item.	1..*
		None	TradeItem-TaxRate	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Rate	The current tax or duty rate percentage applicable to the trade item.	1..*
TradeItem-TemperatureInformation				Trade Item Temperature Group. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
		deliveryTo-Distribution-CenterTemperature-Maximum	MultiMeasurementValue	Trade Item Temperature Group. Delivery To DC_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item on transport to the distribution center.	1..1
		deliveryTo-Distribution-CenterTemperature-Minimum	MultiMeasurementValue	Trade Item Temperature Group. Delivery TO DC_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item on transport to the distribution center.	1..1
		delivery-ToMarket-TemperatureMaximum	MultiMeasurementValue	Trade Item Temperature Group. Delivery to Market_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item during delivery to market.	0..1

## Business Solution Design

		delivery-ToMarket-TemperatureMinimum	MultiMeasurementValue	Trade Item Temperature Group. Delivery To Market_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item during delivery to market.	0..1
		storageHandlingHumidityMaximum	MultiMeasurementValue	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
		storageHandlingHumidityMinimum	MultiMeasurementValue	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
		storageHandlingTemperatureMaximum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_ Maximum. Multi-unit Measure	The maximum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.	0..1
		storageHandlingTemperatureMinimum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_ Minimum. Multi-unit Measure	The minimum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.	0..1
TradeItemIndicator				Trade Item Processing. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	isTradeItemBaseUnit			Trade Item Processing. 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.	1..1
	isTradeItemConsumerUnit			Trade Item Processing. 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 se-	1..1

## Business Solution Design

					lect which GTINs should be used for shelf planning and for front end POS data-bases. This value reflects the intention of the Information Provider which may not necessarily be reflected by the retailer.	
	isTradelte- mADespatch Unit			Trade Item Processing. Despatch_Unit_ Unit. Indicator	An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit. This may be relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is a dispatch unit.	1..1
	isTradelte- mAnIn- voiceUnit			Trade Item Processing. Invoice_ Unit. Indicator	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an invoicing unit.	1..1
	isTradelte- mAnOrder- ableUnit			Trade Item Processing. 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 a relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an ordering unit.	1..1
	isTradelte- mAVari- ableUnit			Trade Item Processing. 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.	1..1

## Business Solution Design

	priceBy-Measure-Type			Trade Item Processing. Price By Measure. Price By Measure Type Code_ Code	Indicator to show how a product is sold.	0..1
	variableTrade-Item Type			Trade Item Processing. Variable Trade Item Type. Code	Indicator to show if a product is loose or pre-packed.	0..1
Trading-PartnerNeutralTrade-ItemInformation				Trading Partner Neutral_ Trade Item. Details	!! This is a class from the TradeItemInformation class.	
	barCodeType			Trading Partner Neutral_ Trade Item. Bar Code. Bar Code Type_ Code	Indication if the trade item is physically bar-coded with the primary trade item identification number.	0..*
	classComplianceRegulationCode			Trading Partner Neutral_ Trade Item. Class Compliance_ Regulation Code. Code	A code that indicates that a trade item is in compliance with specific applicable government regulations. Different municipalities require this on items shipped-to or sold-in the municipality.	0..*
	tradeItem-CountryOfAssembly			Trading Partner Neutral_ Trade Item. Assembly_ Country. ISO3166_1_ Code	Country where product is assembled. Uses ISO country codes.	0..*
	tradeItem-CountryOfOrigin			Trading Partner Neutral_ Trade Item. Origin_ Country. ISO3166_1_ Code	The country code (codes) in which the goods have been produced or manufactured, according to criteria established for the purposes of application of the value may or may not be presented on the trade item label.	0..*
		None	BrandOwnerOfTrade-Item	Trading Partner Neutral_ Trade Item. Association. Brand Owner_ Party	None	0..1

## Business Solution Design

		None	Manufacture- rOfTradeItem	Trading Partner Neutral_ Trade Item. Association. Manufacturer_ Party	None	0..*
		None	MarketingIn- formation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Marketing	None	0..1
		None	MaterialCom- position	Trading Partner Neutral_ Trade Item. Association. Product_ Material Com- position	None	0..*
		None	Material- SafetyData	Trading Partner Neutral_ Trade Item. Association. Material Safety Data Sheet	None	0..1
		None	NonPack- ageTrade- ItemDimen- sion	Trading Partner Neutral_ Trade Item. Association. Apparel_ Home Fash- ions_ Product Size	None	0..1
		None	OrderingAnd- SellingUni- tOfMeasure	Trading Partner Neutral_ Trade Item. Association. Ordering_ Selling_ Trade Item Unit Information	None	0..1
		None	Organic- TradeItem- Characteris- tics	Trading Partner Neutral_ Trade Item. Association. Organic_ Trade Item	None	0..1
		None	Packaging- Marking	Trading Partner Neutral_ Trade Item. Association. Packaging Marking	None	1..1
		None	Packaging- Material	Trading Partner Neutral_ Trade Item. Association. Packaging Material	None	0..*
		None	Packaging- Type	Trading Partner Neutral_ Trade Item. Association.	None	0..*

## Business Solution Design

				Packaging		
		None	PriceOn-TradeItem	Trading Partner Neutral_ Trade Item. Association. Price_ Packaging Marking	None	0..1
		None	PrivateInformation	Trading Partner Neutral_ Trade Item. Association. Private Data Recipient_ Party	None	0..*
		None	Season	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Season	None	0..1
		None	Security-TagInformation	Trading Partner Neutral_ Trade Item. Association. Security Tag	None	0..1
		None	TargetConsumer	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Target Consumer	None	0..1
		None	TradeItem-ColorDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Colour	None	0..*
		None	TradeItem-Coupon	Trading Partner Neutral_ Trade Item. Association. Trade Item Coupon	None	0..1
		None	TradeItem-DateInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Date Group	None	0..1
		None	TradeItem-Finish	Trading Partner Neutral_ Trade Item. Association. Product Finish	None	0..1
		None	TradeItem-HandlingInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Handling	None	0..1
		None	TradeItem-	Trading Partner Neutral_	None	0..*

## Business Solution Design

			HazardousIn-formation	Trade Item. Association. Hazardous Goods		
		None	Tradeltem-Hierarchy	Trading Partner Neutral_ Trade Item. Association. Trade Item Containment	None	0..1
		None	TradeltemIm-portIdentification	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Import Clas-sification	None	0..*
		None	Tradeltem-Marking	Trading Partner Neutral_ Trade Item. Association. Trade Item Marking	None	1..1
		None	TradeltemMa-terial	Trading Partner Neutral_ Trade Item. Association. Additional_ Product_ Material Composition	None	0..1
		None	Tradeltem-Measure-ments	Trading Partner Neutral_ Trade Item. Association. Physical_ Trade Item Dimensions	None	1..1
		None	TradeltemOr-derInforma-tion	Trading Partner Neutral_ Trade Item. Association. Trade Item Ordering	None	0..1
		None	TradeltemPal-letInformation	Trading Partner Neutral_ Trade Item. Association. Pallet	None	0..1
		catalogue-Price	Tradeltem-PriceDateIn-formation	Trading Partner Neutral_ Trade Item. Catalogue Price. Trade Item Price	None	0..1
		suggest-edRetail-Price	Tradeltem-PriceDateIn-formation	Trading Partner Neutral_ Trade Item. Suggested Retail Price. Trade Item Price	None	0..1
		None	Tradeltem-	Trading Partner Neutral_	None	0..*

## Business Solution Design

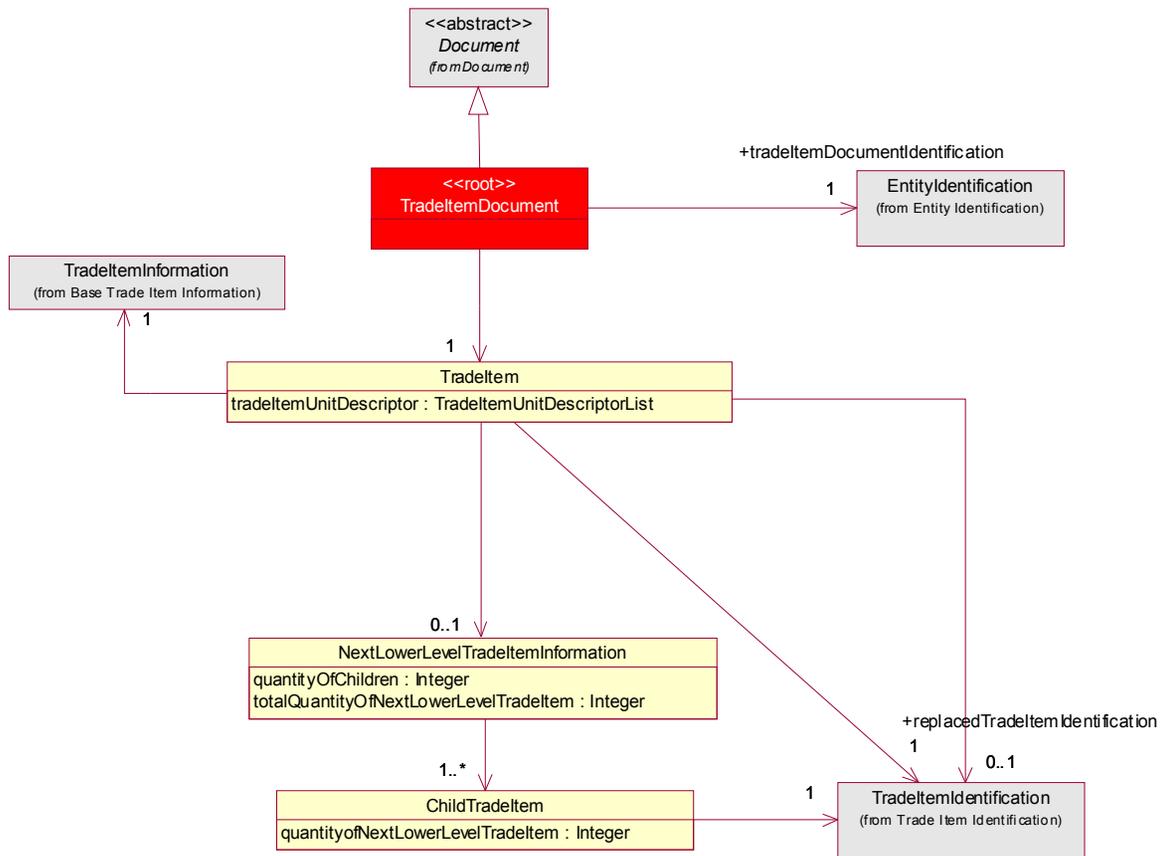
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			SizeDescription	Trade Item. Association. Trade Item Size		
		None	Tradeltem-TaxInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Tax Information Group	None	0..1
		None	Tradeltem-TemperatureInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Temperature Group	None	0..1
		None	TradeltemUnitIndicator	Trading Partner Neutral_ Trade Item. Association. Trade Item Processing	None	1..1

## Business Solution Design

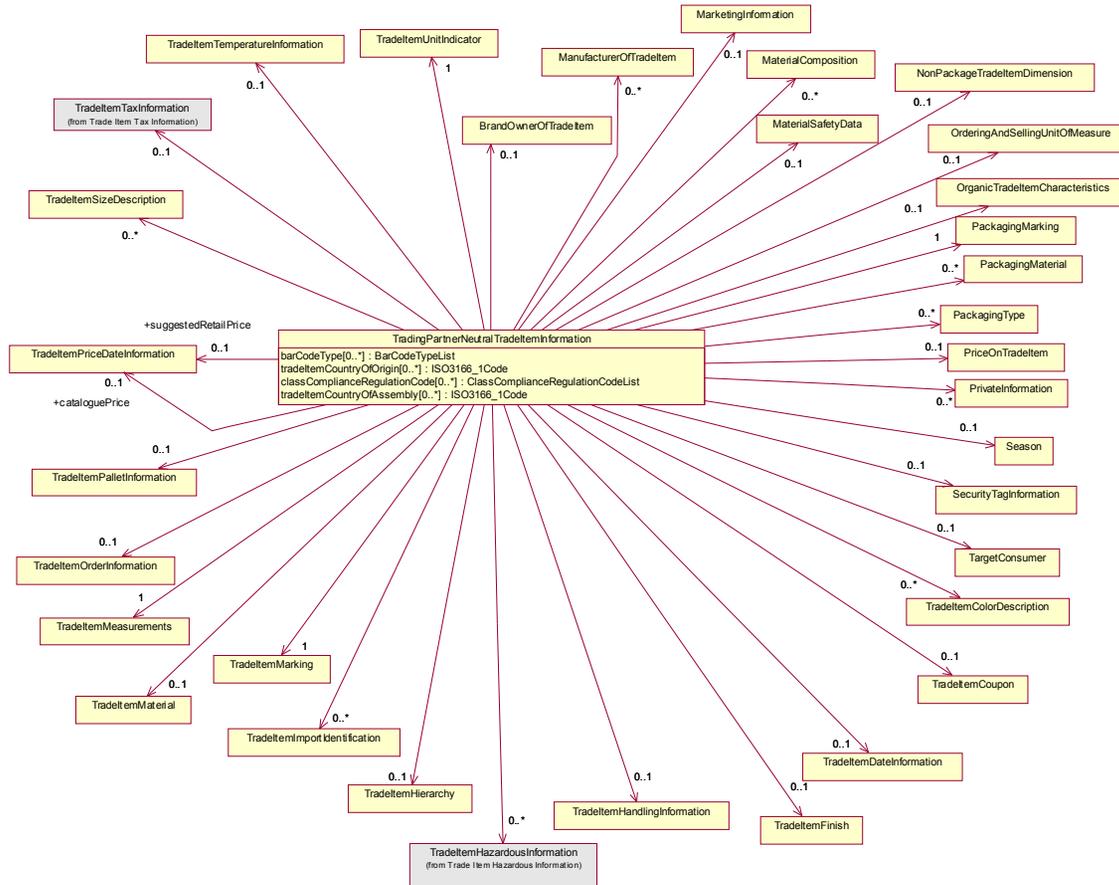
### 1.5.3 Class Diagrams

#### 1.5.3.1 Class Diagram for Trade Item





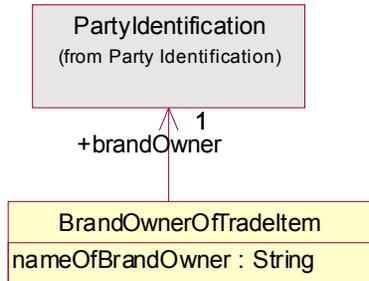
1.5.5 Class Diagram Trading Partner Neutral Trade Item Information Relationship



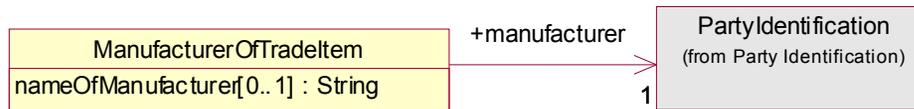
## Business Solution Design

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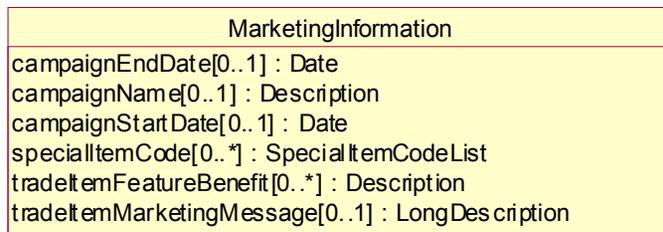
### 1.5.6 Class Diagram Brand Owner Of Trade Item



### 1.5.7 Class Diagram Manufacturer Of Trade Item



### 1.5.8 Class Diagram Marketing Information



## Business Solution Design

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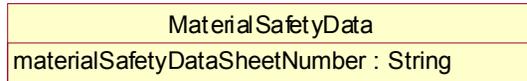
### 1.5.9 Class Diagram Material Composition



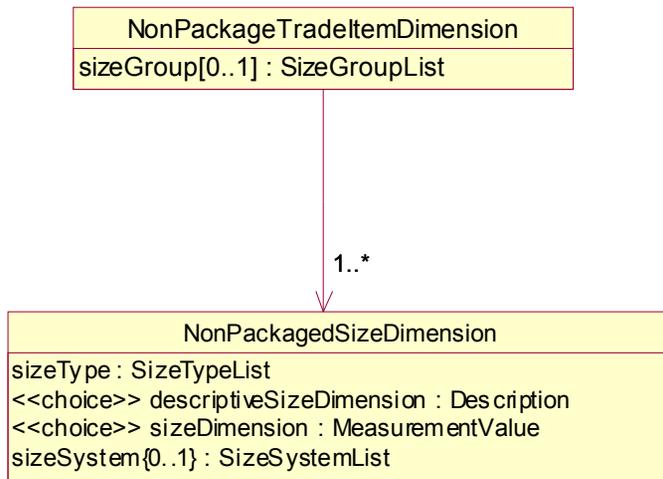
## Business Solution Design

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### 1.5.10 Class Diagram Material Safety Data



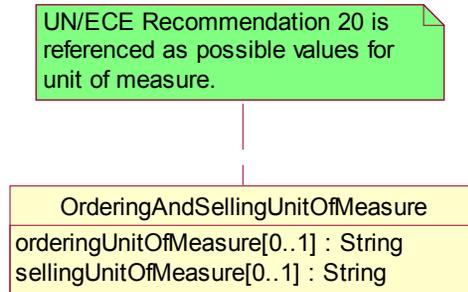
### 1.5.11 Class Diagram Non Package Trade Item Dimension



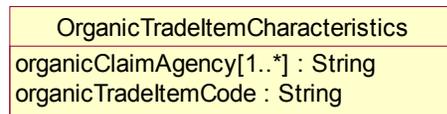
## Business Solution Design

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### 1.5.12 Class Diagram Ordering and Selling Unit Of Measure



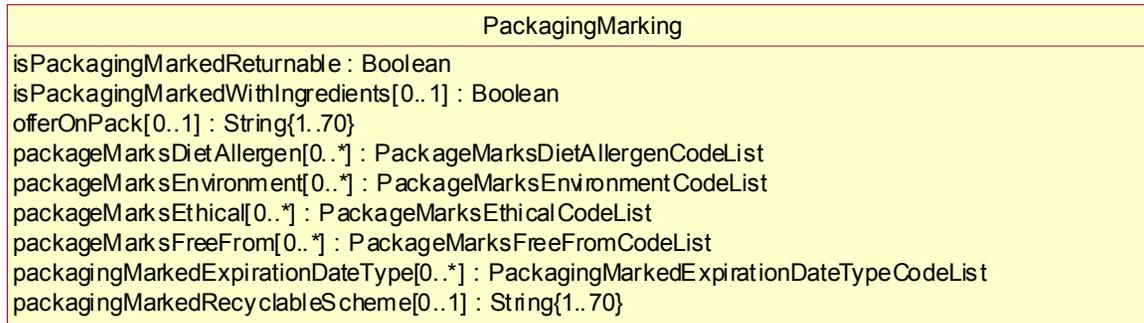
### 1.5.13 Class Diagram Organic Trade Item Characteristics



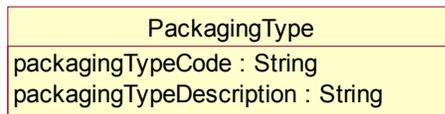
## Business Solution Design

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### 1.5.14 Class Diagram Packaging Marking



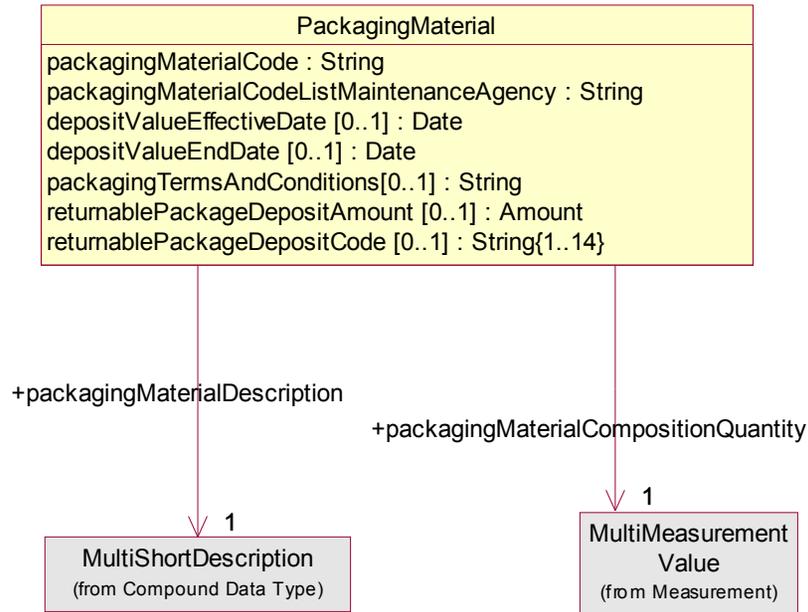
### 1.5.15 Class Diagram Packaging Type



## Business Solution Design

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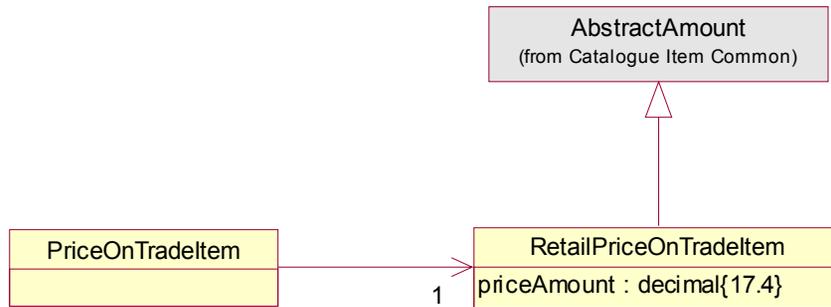
### 1.5.16 Class Diagram Packaging Material



## Business Solution Design

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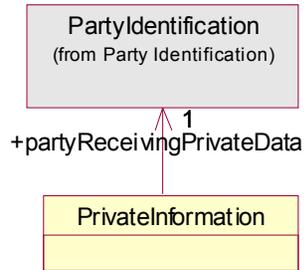
### 1.5.17 Class Diagram Price On Trade Item



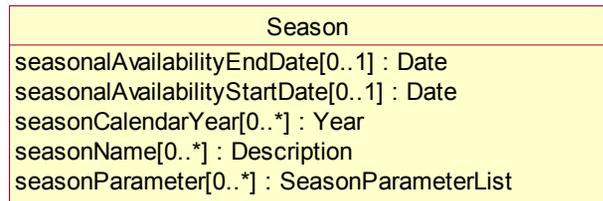
## Business Solution Design

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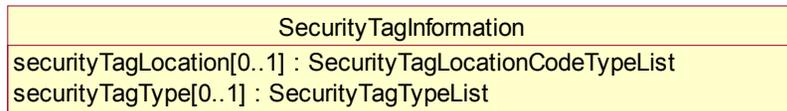
### 1.5.18 Class Diagram Private Information



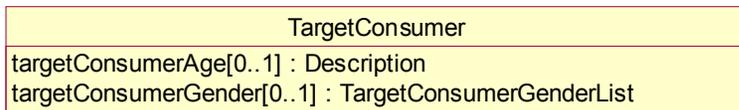
### 1.5.19 Class Diagram Season



### 1.5.20 Class Diagram Security Tag Information



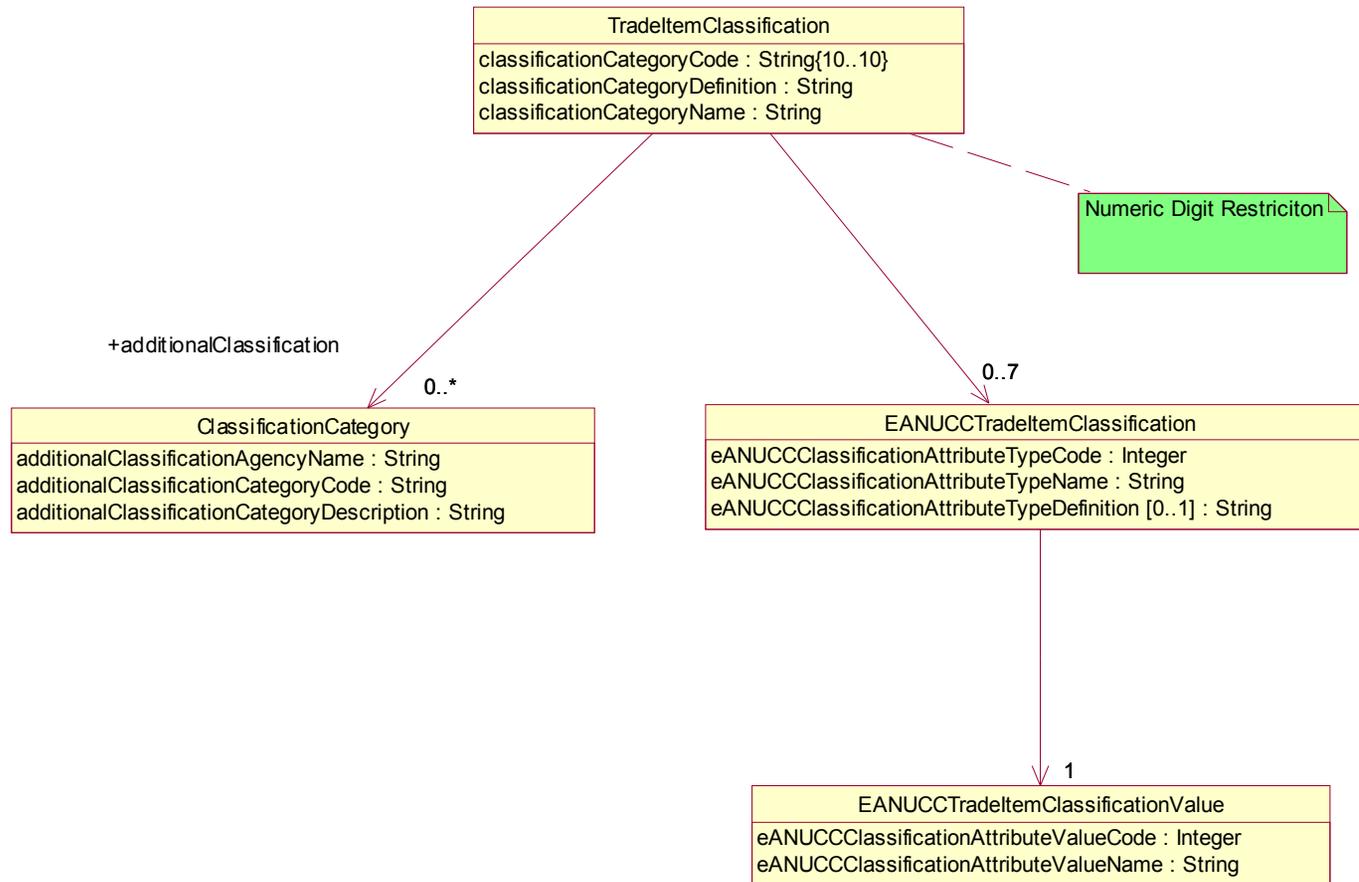
### 1.5.21 Class Diagram Target Consumer



## Business Solution Design

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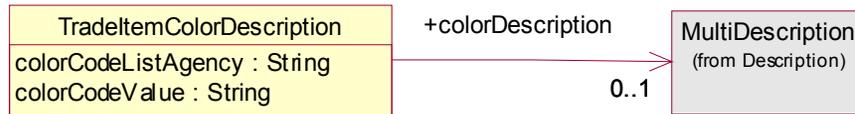
### 1.5.22 Class Diagram Trade Item Classification



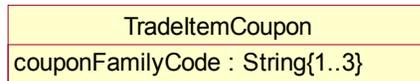
## Business Solution Design

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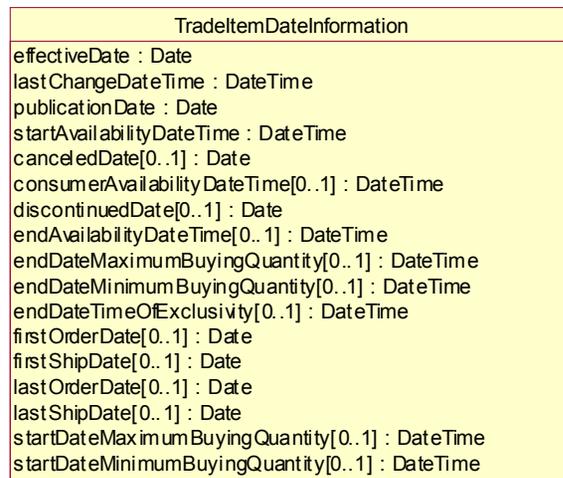
### 1.5.23 Class Diagram Trade Item Color Description



### 1.5.24 Class Diagram Trade Item Coupon



### 1.5.25 Class Diagram Trade Item Date Information

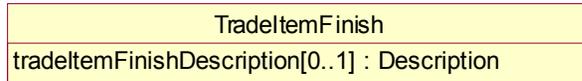


## Business Solution Design

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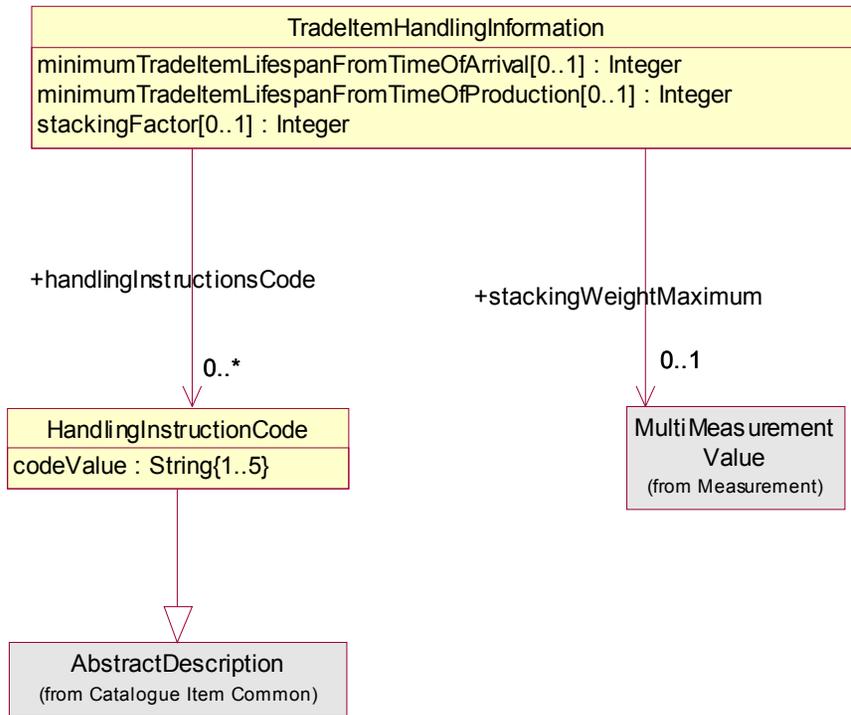
### 1.5.26 Class Diagram Trade Item Finish



## Business Solution Design

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### 1.5.27 Class Diagram Trade Item Handling Information



## Business Solution Design

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### 1.5.28 Class Diagram Trade Item Hierarchy

TradeItemHierarchy
quantityOfCompleteLayersContainedInATradeItem[0..1] : Integer quantityOfInnerPack[0..1] : Integer{1..3} quantityOfLayersPerPallet[0..1] : Integer quantityOfNextLevelTradeItemWithinInnerPack[0..1] : Integer quantityOfTradeItemsContainedInACompleteLayer[0..1] : Integer quantityOfTradeItemsPerPallet[0..1] : Integer quantityOfTradeItemsPerPalletLayer[0..1] : Integer

### 1.5.29 Trade Item Import Identification

TradeItemImportIdentification
importClassificationType[0..1] : ImportClassificationTypeList importClassificationValue[0..1] : String{1..70}

### 1.5.30 Class Diagram Trade Item Marking

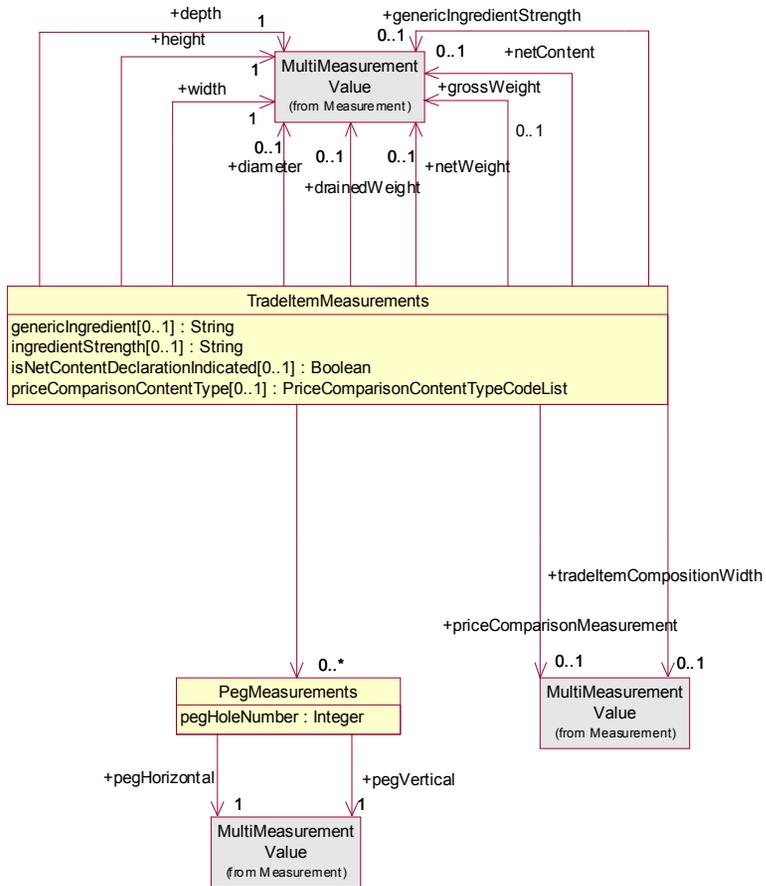
TradeItemMarking
hasBatchNumber[0..1] : Boolean isNonSoldTradeItemReturnable[0..1] : Boolean isTradeItemMarkedAsRecyclable[0..1] : Boolean

### 1.5.31 Class Diagram Trade Item Material

TradeItemMaterial
materialWeight[0..1] : MeasurementValue threadCount[0..1] : Description

## Business Solution Design

### 1.5.32 Class Diagram Trade Item Measurements



## Business Solution Design

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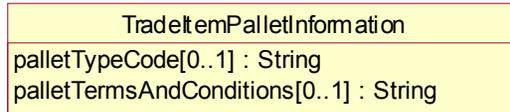
### 1.5.33 Class Diagram Trade Item Order Information



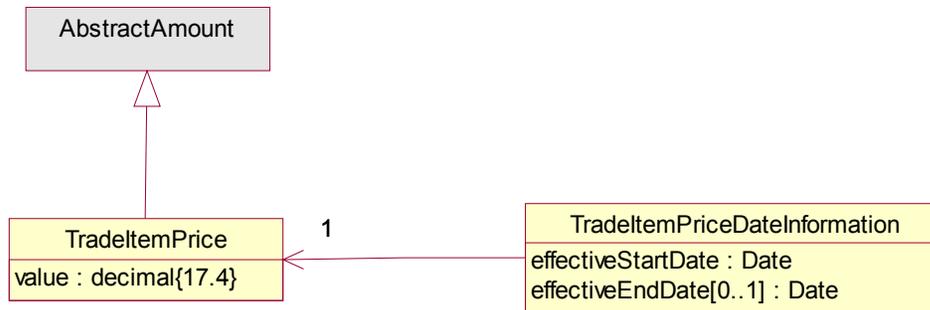
## Business Solution Design

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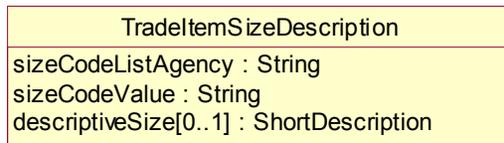
### 1.5.34 Class Diagram Trade Item Pallet Information



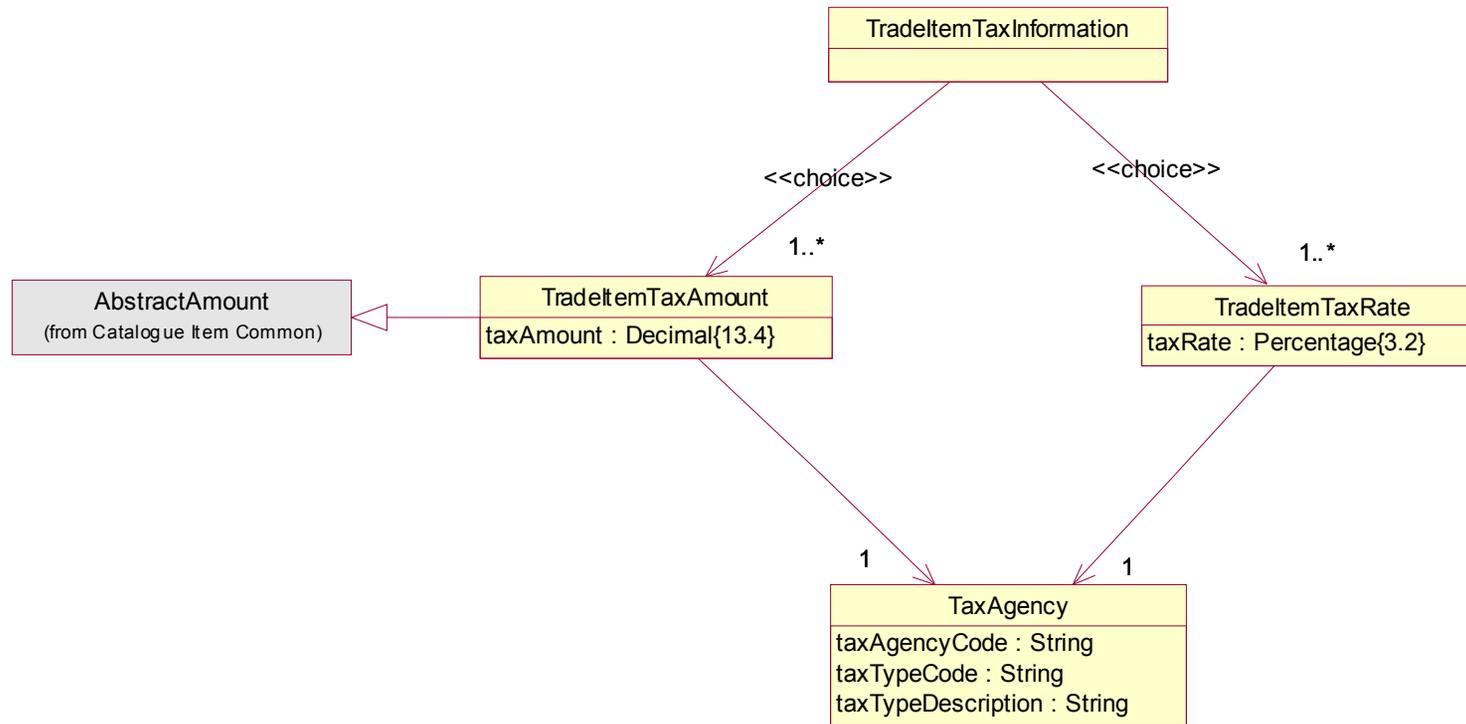
### 1.5.35 Class Diagram Trade Item Price Date



### 1.5.36 Class Diagram Trade Item Size Description

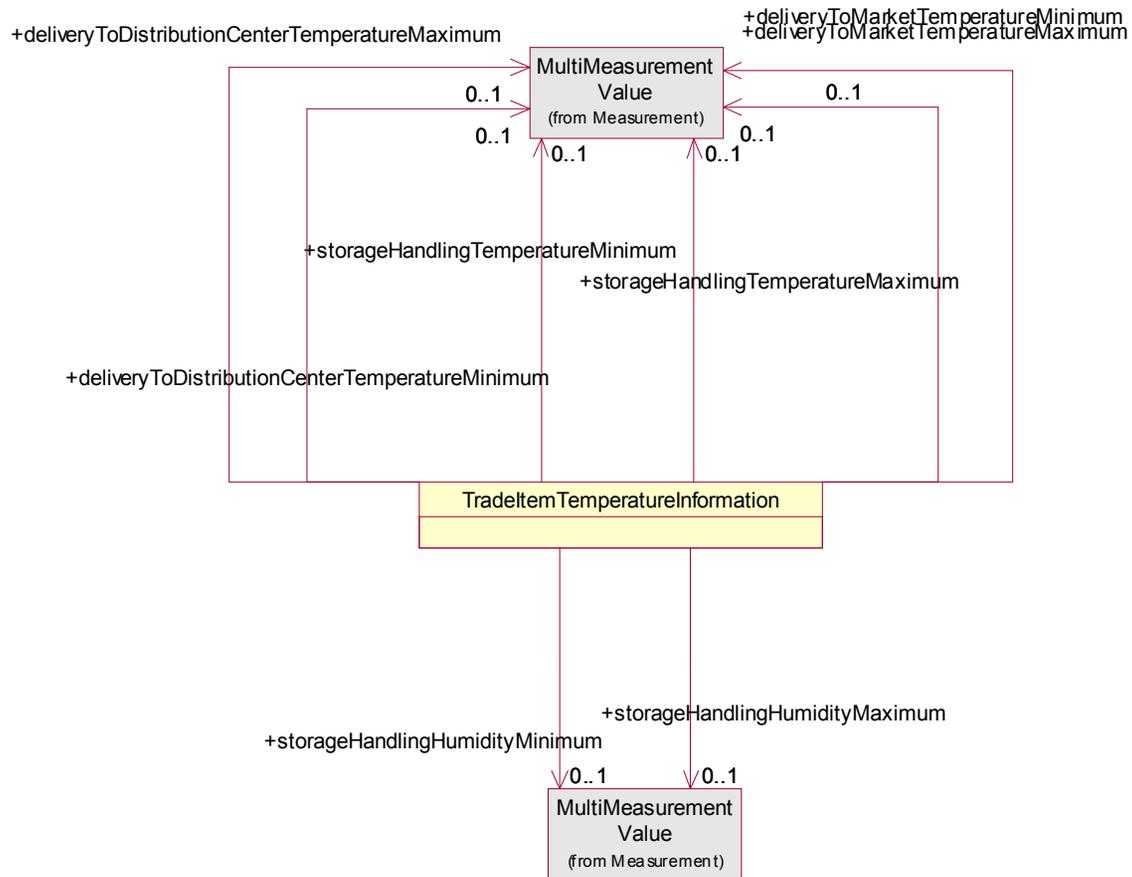


1.5.37 Class Diagram Trade Item Tax Information



## Business Solution Design

### 1.5.38 Class Diagram Trade Item Temperature Information



## Business Solution Design

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### 1.5.39 Class Diagram Trade Item Unit Indicator

TradeItemUnitIndicator
isTradeItemABaseUnit : Boolean
isTradeItemAConsumerUnit : Boolean
isTradeItemADespatchUnit : Boolean
isTradeItemAnInvoiceUnit : Boolean
isTradeItemAnOrderableUnit : Boolean
isTradeItemAVariableUnit : Boolean
priceByMeasureType[0..1] : PriceByMeasureTypeCodeList
variableTradeItemType[0..1] : VariableTradeItemTypeCodeList

## **Business Solution Design**

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## 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
TradeltemUnitDescriptorList	
BASE_UNIT_OR_EACH	N/A
CASE	N/A
DISPLAY_SHIPPER	N/A
MIXED_MODULE	N/A
MULTIPACK	N/A
PACK_OR_INNER_PACK	N/A
PALLET	N/A
PREPACK	N/A
PREPACK_ASSORTMENT	N/A
SETPACK	N/A

Code List Name	Code List Description
VariableTradeltemTypeCodeList	
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_PEAUNTS	N/A
FREE_FROM_SOYA	N/A

## Business Solution Design

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FREE_FROM_SUGAR	N/A
REDUCED_LACTOSE	N/A

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

## Business Solution Design

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### 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	<i>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.</i>	<i>BRAD Name.Version. Req #</i>	<i>Message, role, attribute</i>	<i>Result which determines that requirement has been satisfied: For example:  Seller is able to create and send an Order Receipt Acknowledgement.</i>	<i>Result which shows that requirement has not been satisfied: For example:  Buyer does not receive the Order Receipt Acknowledgement.</i>
2					
3					

#### 1.8.2 Test Data

Attribute	Value
<i>Attribute Name. For example "orderQuantity"</i>	<i>Valid value associated with the attribute. For example "5".</i>

# Business Solution Design

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## 1.9 Appendices

### 1.10 Summary of Changes

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

<b>Change</b>	<b>BMS Ver- sion</b>	<b>Associated CR Number</b>
Section 4.2.2 – <ul style="list-style-type: none"><li>• Added “xxxx” 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