

Business Message Standard (BMS)

for

Align/Trade Item (Data Definition)

BRG: Align

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(dd.mm.cyy)



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CR Submitter(s):	
Date of CR Submission to GSMP:	

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1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

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

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

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

1.1.2 Objective

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

1.1.3 Audience

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

1.1.4 Artefacts

Artefact name	State	Artefact / State description

1.1.5 References

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

1.1.6 Acknowledgements

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

1.1.6.1 BRG Members

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

1.1.6.2 ITRG Members

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

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

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

1.1.6.4 Design Team Members

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

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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	GDSN
System Capabilities	All
Official Constraints	None

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

Number	Statement	Rationale

1.4 Business Transaction View

1.4.1 Business Transaction Use Case Diagram

1.4.2 Use Case Description

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

Business Solution Design

	organizational information to buyer. Other data alignment follows such as item and price attributes.															
Post conditions	The end-state of the Data Sync Trade Item business process occurs when the parties have achieved Party and Item data alignment.															
Scenario	<p>Begins when... trading partners discuss the need to exchange item information.</p> <p>Continues with...</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>Ends when... 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.														
Alternative Scenario	<p>(any alternatives to the above scenario)</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																
Related Requirements	<table border="1"><tr><td>1</td><td></td></tr></table>	1														
1																
Related Rules	<table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>															

1.4.3 Business Transaction Activity Diagram(s)

Not Available.

1.4.4 Business Transaction Sequence Diagram(s) (optional)

Not Available.

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1.5 Information Model (including GDD Report)

1.5.1 Data Description (Related Requirements)

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirement
BrandOwnerOfTradeItem				
	nameOf-BrandOwner			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
		brandOwner	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
ManufacturerOfTradeItem				
	nameOfManufacturer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		manufacturer	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
MarketingInformation				
	campaignEndDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	campaignName			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	campaign-StartDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	specialItem-Code			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	tradeItemFeatureBenefit			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	tradeItemMarketingMessage			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
MaterialComposition				

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	materialAgencyCode			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	materialContent			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	materialPercentage			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
		materialCode	MultiDescription	(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
MaterialSafetyData				
	materialSafety-DataSheet-Number			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
NonPackagedSize-Dimension				
	descriptive-SizeDimension			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	sizeDimension			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	sizeSystem			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	sizeType			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
NonPackageTrade-ItemDimension				
	sizeGroup			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
		None	NonPackaged-SizeDimension	(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
OrderingAndSellingUnitOfMeasure				
	orderingUnitOfMeasure			(BRD) for Hardlines Item V0.08

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	sellingUnitOf-Measure			(BRD) for Hardlines Item V0.08
OrganicTradeItem-Characteristics				
	organicClai-mAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	organicTrade-ItemCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
PackagingMarking				
	isPackaging-MarkedReturn-able			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isPackaging-MarkedWithIn-gredients			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	offerOnPack			
	package-MarksDie-			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	packageMark-sEnvironment			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	packageMark-sEthical			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	package-MarksFree-			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	packaging-MarkedExpira-tionDateType			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
PackagingMaterial				
	packagingMa-terialCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	packaging-TermsAndCon-ditions			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6

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	returnablePack ageDeposit- Code			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	packagingMa- terialCodeList- Mainte- nanceAgency			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	depositVal- ueEffective- Date			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	depositVal- ueEndDate			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		packaging- MaterialDe- scription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		packaging- Material- Composi- tionQuantity	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
PackagingType				
	packaging- TypeCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	packaging- TypeDescrip- tion			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
PegMeasurements				
	pegHoleNum- ber			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		pegHorizon- tal	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item Data Definition) V7.6
		pegVertical	MultiMeasure-	BRD Data Synchronization Data Model for

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			mentValue	Trade Item (Data Definition) V7.6
PriceOnTradeItem				
	retailPriceOn-TradeItem			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
PrivateInformation				
		partyReceivingPrivate-Data	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
Season				
	seasonalAvailabilityEndDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	seasonalAvailabilityStartDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	seasonCalendarYear			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	seasonName			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	season-Parameter			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
SecurityTagInformation				
	securityTagLocation			(BRD) for Hardlines Item V0.08
	securityTag-Type			(BRD) for Hardlines Item V0.08
TargetConsumer				
	targetConsumerAge			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	targetConsumerGender			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
		targetConsumerAge	MultiDescription	(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4

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TradeItemColorDescription				
	colorCode-ListAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	colorCode-Value			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		colorDescription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemCoupon				
	couponFamily-Code			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
TradeItemDateInformation				
	canceledDate			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	consumerAvailability-DateTime			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	discontinued-Date			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	effectiveDate			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	endAvailabilityDateTime			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	lastChange-DateTime			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	publicationDate			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	startAvailabilityDateTime			BRD Data Synchronization Data Model for Trade Item(Data Definition) V7.6
	endDateMaximumBuyingQuantity			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8

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	endDateMinimumBuyingQuantity			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	endDateTimeOfExclusivity			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	firstOrderDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	firstShipDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	lastOrderDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	lastShipDate			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	startDateMaximumBuyingQuantity			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	startDateMinimumBuyingQuantity			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
TradeItemFinish				(BRD) for Hardlines Item V0.08
TradeItemHandlingInformation				
	minimumTradeItemLifespanFromTimeOfArrival			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	minimumTradeItemLifespanFromTimeOfProduction			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	stackingFactor			BRD Data Synchronization Data Model for

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				Trade Item (Data Definition) V7.6
		handlingIn- struction- sCode	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		stacking- Weight- Maximum	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemHazardous- Information				
	classOfDan- gerousGoods			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	dangerous- GoodsAMar- ginNumber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	dangerous- GoodsHazard- ousCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	dangerous- GoodsPack- ingGroup			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	dangerous- GoodsRegula- tionCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	dangerous- GoodsShip- pingName			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	unitedNations- Dangerous- GoodsNumber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		dangerous- GoodsTech- nicalName	MultiLongDescrip- tion	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6

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		flashPoint- Temperature	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemHierarchy				
	quantityOf- CompleteLay- ersContainedI- nATradeItem			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOfIn- nerPack			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOfLay- ersPerPallet			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOfNex- tLevelTrade- ItemWithinIn- nerPack			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOf- TradeItem- sContainedI- nAComplete- Layer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOf- Trade- ItemsPerPallet			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	quantityOf- Trade- ItemsPerPal- letLayer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemImportIden- tification				
	importClassifi- cationType			(BRD) for Hardlines Item V0.08

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	importClassificationValue			(BRD) for Hardlines Item V0.08
TradeItemMarking				
	hasBatchNumber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isNonSold-TradeItemReturnable			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemMarkedAsRecyclable			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemMaterial				
	materialWeight			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	threadCount			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
TradeItemMeasurements				
	genericIngredient			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	ingredientStrength			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isNetContentDeclarationIndicated			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		depth	MultiMeasurementValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		diameter	MultiMeasurementValue	BRD Data Synchronization Data Model for Trade Item

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				(Data Definition) V7.6
		drained-Weight	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		genericIn-gredient-Strength	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		grossWeight	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		height	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		netContent	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		netWeight	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	priceCompara-sonContent-Type			
		priceCom-parison-Measure-ment	MultiMeasure-mentValue	BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		tradeItem-Composi-tionWidth	MultiMeasure-mentValue	BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		width	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	PegMeasure-ments	

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TradeItemOrderIn- formation				
	isTradeItem- Reorderable			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	isTradeItem- SizeBasedPric- ing			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	agreedMini- mumBuy- ingQuantity			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	agreedMaxi- mumBuy- ingQuantity			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	FirstDelivery- DateTime			
	orderingLead- Time			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	orderQuantity- Maximum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	orderQuantity- Minimum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	orderQuantity- Multiple			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		goodsPickU- pLeadTime	MultiMeasure- mentValue	
		orderSizing- Factor	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemPalletIn-				

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formation				
	palletTermsAndConditions			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	palletTypeCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemPrice-DateInformation				
	effectiveEndDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	effectiveStartDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	value			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemSizeDescription				
	descriptiveSize			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	sizeCode-ListAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	sizeCodeValue			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemTaxInformation				
		None	TradeItemTax-Amount	BRD Data Synchronization Data Model for Trade Item

Business Solution Design

				(Data Definition) V7.6
		None	TradeItem-TaxRate	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemTemperatureInformation				
		deliveryTo-Distribution-CenterTemperature-Maximu	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		deliveryTo-Distribution-CenterTemperature-Minimu	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		delivery-ToMarket-TemperatureMaximum	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		delivery-ToMarket-TemperatureMinimum	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		storageHandlingHumidityMaximum	MultiMeasure-mentValue	BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		storageHandlingHumidityMinimum	MultiMeasure-mentValue	BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
		storageHandlingTem-	MultiMeasure-mentValue	BRD Data Synchronization Data Model for Trade Item

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		perature- Maximum		(Data Definition) V7.6
		storageHan- dlingTem- perature- Minimum	MultiMeasure- mentValue	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
TradeItemUnitIndica- tor				
	isTradeItemA- BaseUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemACon- sumerUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemADespatchUn- it			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemAn- InvoiceUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemAnOrder- ableUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	isTradeItemAVariableUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	priceByMeas- ureType			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
	variableTrade- Item Type			BRD Peer-To-Peer Trade Item For Data Alignment (Data Definition) V 8.8
TradingPartnerNeu- tralTradeItemInforma- tion				

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	barCodeType			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
	classComplianceRegulationCode			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	tradeItemCountryOfAssembly			(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
	tradeItemCountryOfOrigin			BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	BrandOwnerOfTradeItem	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	ManufacturerOfTradeItem	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	MarketingInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	MaterialComposition	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	MaterialSafetyData	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	NonPackageTradeItemDimension	(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
		None	OrderingAndSellingUnitOfMeasure	(BRD) for Hardlines Item V0.08
		None	OrganicTradeItemCharacteris-	BRD Data Synchronization Data Model for Trade Item

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			tics	(Data Definition) V7.6
		None	PackagingMark- ing	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	PackagingMate- rial	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	PackagingType	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	PriceOnTradeItem	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	PrivateInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	Season	(BRD) For Trade Item Extension Apparel and Home Fashions V 2.4
		None	SecurityTagInfor- mation	(BRD) for Hardlines Item V0.08
		None	TargetConsumer	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemCol- orDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemCoupon	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemDateIn- formation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemFinish	(BRD) for Hardlines Item V0.08

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		None	TradeItemHandlingInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemHazardousInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemHierarchy	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemImportIdentification	(BRD) for Hardlines Item V0.08
		None	TradeItemMarking	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemMaterial	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemMeasurements	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemOrderInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemPalletInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		catalogue-Price	TradeItemPriceDateInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		suggestedRetail-Price	TradeItemPriceDateInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemSizeDescription	BRD Data Synchronization Data Model for Trade Item

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				(Data Definition) V7.6
		None	TradeItemTaxInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemTemperatureInformation	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6
		None	TradeItemUnitIndicator	BRD Data Synchronization Data Model for Trade Item (Data Definition) V7.6

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
ChildTradeItem				Child_ Trade Item. Details	Not Available	
	quantity-ofNextLowerLevelTradeItem			Child_ Trade Item. Quantity. Quantity	!! The number of next lower level trade item that this trade item contains.	1..1
		None	Trade-ItemIdentification	Child_ Trade Item. Association. Trade Item Identification	A reference to the GTIN of the next lower level of trade item that this trade item contains .	1..1
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

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		information- Provider	PartyIdentifi- cation	Information Provider_ Party. Identification. Party Identification	None	1..1
NextLower- LevelTrade- ItemInforma- tion				Next Lower Level_ Trade Item Containment. Details	!! This class originates in the root class TradeItem	
	quantityOf- Children			Next Lower Level_ Trade Item Containment. Num- ber Of Children_ Quantity. Quantity	Value indicates the number of unique next lower level trade items contained in a com- plex trade item. A complex trade item can contain at least 2 different GTINs.	1..1
	totalQuantity OfNextLow- er- 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. Asso- ciation. Child_ Trade Item	None	1..*
TargetMar- ketInforma- tion				Named_ Target Market. Details	!! This is a reusable class from Trade Item Common and referenced as part of the Trade Item Information class.	
	targetMar- ketCountry- Code			Named_ Target Market. Country. ISO3166_1_ Code	The target market code indicates the country level or higher geographical definition in which the information provider will make the GTIN available to buyers. This Indicator does not in any way govern where the buyer may re-sell the GTIN to consumers.	1..1
	targetMar- ketDescrip- tion			Named_ Target Market. Description. Language_ Text	The name for the specific target market iden- tified with the Target Market Country Code . Target market description is composed of both text and a language code. The descrip- tion will be generated from the ISO 3166-1	1..1

Business Solution Design

					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.	
	targetMarketSubdivisionCode			Named_ Target Market. Subdivision. ISO3166_2_Code	The Target Market Subdivision Code is the secondary code of the Target Market and must be a subdivision of a Target Market Country Code. The Target Market Subdivision Code describes the "geo-political subdivision of a country" where the trade item is available for sale, as determined by the information provider. For example, "State" in the US, "Land" in Germany, "Region" in France, or "Province" in Canada. Not all countries have subdivisions. This code is represented by the three-character ISO 3166-2 code. This Target Market Subdivision Code is a dependent attribute. It is important to note that the lack of the Target Market Subdivision code implies that the trade item is available in the entire target market country.	0..1
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
		NextLower-LevelTrade-ItemInformation	NextLower-LevelTrade-ItemInformation	Trade Item. Association. Next Lower Level_ Trade Item Containment	Not Available	0..1
		None	Trade-	Trade Item. Association.	None	1..1

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			ItemIdentification	Trade Item Identification		
		replaced-Trade-ItemIdentification	Trade-ItemIdentification	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
TradeItem-Description-Information				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
	productRange			Trade Item Description. Product Range. Text	!! A name, used by a BrandOwner, that span multiple consumer categories or uses. E.g. (Waist Watchers).	0..1
	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			Trade Item Description. Group. Identifier	!! A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classi-	0..1

Business Solution Design

	Code				ification.	
	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 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
		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
		tradeItemGroupIdentificationDescription	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.	Free text field used to identify the variant of	0..*

Business Solution Design

			tion	Variant. Multi-language Description	the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavour, 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.	
		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 attributes of up to 35 characters each (see Section 4.7 of the Implementation Considerations and Concerns.). When implemented, these four attributes may be concatenated as appropriate. Item description is part of the set 1..1 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.	1..1
		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, Colour, 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

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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
		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	0..*

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					Standard for Allowance-Charge Extension, July 2001.	
		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 Standard for Payment Terms Extension, July 2001.	0..*
		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

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Trading Partner Neutral Trade Item Information

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multi-plicity
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.	1..1
		manufacturer	PartyIdentification	Manufacturer_ Party. Association. Party Identification	None	1..1
MarketingInformation				Trade Item_ Marketing. Details	Not Available	
	cam-			Trade Item_ Marketing.	The date suggested by the supplier for	0..1

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	campaignEnd-Date			End_ Campaign Date Time. Date Time	the campaign to end. It indicates the end of a marketing campaign.	
	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 begin-ning of a marketing campaign.	0..1
	special-ItemCode			Trade Item_ Marketing. Special Item Code. Special Item Code_ Code	This element identifies spe-cific items for promotional or special tracking purposes.	0..*
	tradeItem-Feature-Benefit			Trade Item_ Marketing. Feature_Benefit. Language_ Text	Element for consumer facing market-ing 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. Percent_ Numeric	Net weight percentage of a product material of the first main material. The percentages must add up to 100.	0..1
		material-	MultiDescrip-	Product_ Material Com-	This element indicates the product mate-	0..1

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		Code	tion	position. materialCode_ Association. Multi- language Description	rial code that gives the composition of the trade item's first main material up to six material short codes that can be given in descend-ing order of their respective percentages.	
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. Iden- tifier	!! 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
NonPack- agedSize- Dimension				Apparel_Home Fashions_ Product Size Group. De- tails	None	
	descriptive- SizeDimen- sion			Apparel_Home Fashions_ Product Size Group. Choice_ Dimension_ Description. Text	The textual representation of the size dimension specified by the size type.	1..1
	sizeDimen- sion			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 Sys- tem Code_ Code	This is the system that is being used to define the size. It is used in conjunction with size group to completely de-fine the size dimension.	1..1
	sizeType			Apparel_Home Fashions_ Product Size Group. Size_ Type. Size Type Code_ Code	The type of size dimension being speci- fied by the size measurement.	1..1
NonPack- ageTrade- ItemDimen-				Apparel_ Home Fash- ions_ Product Size. De- tails	None	

Business Solution Design

sion						
	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- Tradeltem- Characteris- tics				Organic_ Trade Item. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	organic- ClaimA- gency			Organic_ Trade Item. Claim_ Agency Name. Text	A Governing body that creates and main- tains standards related to organic prod- ucts.	1..*
	organic- Tradeltem- Code			Organic_ Trade Item. Class. Identifier	!! Used to indicate the organic status of a trade item or of one or more of its compo- nents.	1..1
Packaging- Marking				Packaging Marking. De- tails	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	

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	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-MarksEthical			Trade Item_ Packaging Marking. Ethical_ Marked As. Package Marks Ethical Code List_ Code	Indication of which ethical trading marks that are on the package.	0..*
	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-			Trade Item_ Packaging	Indicates the type of expiration date	0..*

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	MarkedExpiration-DateType			Marking. Date Expiration Type_ Marked As. Packaging Marked Expiration Date Code_ Code	marked on the packaging.	
	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: Aluminium 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-TermsAndConditions			Packaging Material. Terms And Conditions. Text	Indicates if the packaging given in the described packaging configuration is a rented, exchangeable, against deposit or one way/not reusable.	0..1
	returnablePackageDepositCode			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
	returnablePackageDepositAmount			Packaging Material. Returnable Package_ Deposit_Amount. Amount	The monetary amount for the individual returnable package.	0..1
	packaging-Material-CodeList-MaintenanceAgency			Packaging Material. Code List Maintenance Agency. Text	The agency or agencies controlling the packaging code lists of each country.	1..1

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	depositValueEffectiveDate			Packaging Material. Effective_ Deposit Value Date. Date Time	First date that the deposit value is valid for the deposit code. CCYYMMDD.	0..1
	depositValueEndDate			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-MaterialDescription	MultiDescription	Packaging Material. Description. 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 defined in the Trade Item BRD.	1..1
		packaging-Material-CompositionQuantity	MultiMeasurementValue	Packaging Material. Composition Quantity. Multi-unit Measure	The quantity of the packaging of the trade item. Can be weight, volume or surface, can vary by country.	1..1
Packaging-Type				Packaging. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	packaging-TypeCode			Packaging. Type. Packaging Type_ Code	The code identifying the type of package used as a container of the trade item.	1..1
	packaging-TypeDescription			Packaging. Description. Text	System generated text description of the type of packaging used for the trade item.	1..1
PegMeasurements				Peg Location. Details	This class enables the description of multiple peg holes and their locations for a trade item.	
	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	1..1

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					right corner.	
		pegHorizontal	MultiMeasurementValue	Peg Location. Peg_ Horizontal. Multi-unit Measure	Used to indicate the horizontal distance from the left edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard. Example: "2 INH." Required if the trade item is displayed on a peg board.	1..1
		pegVertical	MultiMeasurementValue	Peg Location. Peg_ Vertical. Multi-unit Measure	Used to indicate the vertical distance of a peg hole measured from the bottom edge of the trade item to the top of the peg hole. Peg holes are inserted when the trade item is displayed on a pegboard. Example: "2 INH." Information is required if the trade item is displayed on a peg board.	1..1
PriceOn-TradeItem				Price_ Packaging Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	retail-PriceOn-TradeItem			Price_ Packaging Marking. Retail_ Price. Amount	!! The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field priceOnPackIndicator.	1..1
PrivateInformation				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
	sea-			Trade Item_ Season.	Indicates the start date of the trade item's	1..1

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	sonalAvail- abilityStart- Date			Seasonal_Start_ Availabil- ity Date. CCYYMMDD hhmm_ Date Time	seasonal availability.	
	seasonCal- endarYear			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_ Descrip- tion. 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- TagInforma- tion				Security Tag. Details	n.a	
	securityTag- Location			Security Tag. Tag_ Loca- tion. Security Tag Loca- tion 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- cealed inside Trade Item, Integrated In- side Trade Item.	0..1
	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
TargetCon- sumer				Trade Item_ Target Con- sumer. Details	None	
	targetCon- sumerAge			Trade Item_ Target Con- sumer. Consumer Age_ Description. Text	Identifies the target consumer age range for which a trade item has been designed.	0..1
	targetCon- sumerGen-			Trade Item_ Target Con- sumer. Target Consumer_	Identifies the target consumer gender for which a product has been designed.	0..1

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	der			Gender Code. Target Consumer Gender Code_ Code		
		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
TradeItem-ColorDescription				Trade Item Colour. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	colorCode-ListAgency			Trade Item Colour. Colour Code_ Agency. Text	The parties controlling the colour code lists. Dependent on colour code value. If colour code is indicated, colorCode-ListAgency is required.	1..1
	colorCode-Value			Trade Item Colour. Code. Colour_ Code	The code list required to identify the colour of the trade item. No ISO standards exist. Each industry needs to determine which code agency is will use.	1..1
		colorDescription	MultiDescription	Trade Item Colour. Description. Multi-language Description	Free from text. A description text field. This data element is repeatable for each language used and must be associated with a valid ISO language code from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details. Sector specific extension. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-70, as defined in the Trade Item BRD.	1..1
TradeItem-Coupon				Trade Item Coupon. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	

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	coupon-FamilyCode			Trade Item Coupon. Family. Bilateral_ Code	A code assigned by the vendor to a single trade item or to families of consumer trade items that can be used by in store scanners in conjunction with a U.P.C. coupon value code for coupon value discount when the proper trade item has been purchased.	1..1
TradeItem-DateInformation				Trade Item Date Group. Details	!! 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 cancellation.	0..1
	consumerAvailability-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
	discontinuedDate			Trade Item Date Group. Discontinued_ Date. CCYYMMDD_ Date Time	!! Communicate the date on which the trade item is no longer to be manufactured. Allows the reuse of the GTIN after 48 months with the explicit exception of Apparel, being 30 months and the implicit exception for specialty products (e.g., steel beams).	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	1..1

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					effect.	
	endAvailabilityDateTime			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
	lastChangeDateTime			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
	publicationDate			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
	startAvailabilityDateTime			Trade Item Date Group. Start Availability_ Date. CCYYMMDD hhmm_ Date Time	The date (CCYY-MM-DDTHH:MM:SS) from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services.	1..1
	endDateMaximumBuyingQuantity			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
	endDateMinimumBuyingQuantity			Trade Item Date Group. Minimum Buying Quantity End_ Date. Date Time	The end date for when the minimum buying quantity is no longer available to the trading partner	0..1
	endDateTimeOfExclusivity			Trade Item Date Group. Exclusivity End_ Date. Date Time	The Date & Time at which a product is no longer exclusive to that trading partner.	0..1
	firstOrderDate			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.	It indicates the earliest date that the trade	0..1

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				First Ship_ Date. Date Time	Item can be shipped. This is independent of any specific ship-from location.	
	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-BuyingQuantity			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-DateMinimumBuyingQuantity			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
TradeItem-Finish				Product Finish. Details	n.a	
	tradeItem-FinishDescription			Product Finish. Finish_ Description. Text	Additional Attribute which defines the outer surface/appearance of the product.	0..1
TradeItem-HandlingInformation				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-			Trade Item Handling. Minimum From Production Time_ Trade Item_ Life-	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.	0..1

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	From-TimeOfProduction			span. Measure		
	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
		handlingInstruction-sCode	MultiDescription	Trade Item Handling. Instruction. Multi-language Description	Defines the information and processes needed to safely handle the trade item. Handling instructions is composed of both text and a language code. 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 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.	0..1
		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-Hazardous-Information				Hazardous Goods. Details	!! This reusable class is part of the Trading Partner Neutral Trade Item Information Class.	
	classOfDangerous-Goods			Hazardous Goods. Class. Identifier	!! Dangerous goods classification of the trade item. There are 9 danger classes, some classes are further subdivided into subclasses. "Class" number explains in general terms the nature and properties of	1..1

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					the goods and serves to classify them together in terms of their most significant risk.	
	dangerous-GoodsAMargin-Number			Hazardous Goods. A Margin Number. Integer_Numeric	!! Information, whether for the base trade item or further packaging trade item a dangerous goods a-margin number does exist in the European dangerous goods agreements (and in the respective national dangerous goods legislation), thus facilitations for the transport of defined limited quantity by road or rail are possible or not. If they are possible, they must be indicated, whether they are used by the data supplier.	1..1
	dangerous-GoodsHazardousCode			Hazardous Goods. Hazard. Identifier	Dangerous goods hazard ID number, which must be applied to the vehicle, when transporting this trade item (dangerous good) by road or rail, to inform the police, the fire brigade and others in case of an accident about the kind of danger caused by the cargo.	1..1
	dangerous-GoodsPackagingGroup			Hazardous Goods. Packaging Group. Identifier	!! Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.	1..1
	dangerous-GoodsRegulationCode			Hazardous Goods. Regulation. Identifier	!! Code indicating the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.	1..1
	dangerous-GoodsShippingName			Hazardous Goods. Shipping_Name. Text	Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.	1..1
	unitedNationsDan-			Hazardous Goods. United Nations_Class. Identifier	!! The four-digit number assigned by the United Nations Committee of Experts on	1..1

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	gerous-GoodsNumber				the Transport of Dangerous Goods to classify a substance or a particular groups of substances. Abbreviation: UNDG Number.	
		dangerous-GoodsTechnicalName	MultiLongDescription	Hazardous Goods. Technical_ Name. Long_ Multi-language Description	Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-200, as defined in the Trade Item BRD.	1..1
		flashPoint-Temperature	MultiMeasurementValue	Hazardous Goods. Flash Point_ Temperature. Multi-unit Measure	The lowest temperature at which a substance gives off a sufficient vapor to support combustion. This uses a measurement consisting of a unit of measure and value.	1..1
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-			Trade Item Containment.	The number of layers that a pallet con-	0..1

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	OfLayer- sPerPallet			Layers Per Pallet_ Quan- tity. Quantity	tains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.	
	quantity- OfNex- tLevelTrade- ItemWithin- InnerPack			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
	quantityOf- Tradeltem- sContaine- dInACom- pleteLayer			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 pack- aging 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_ Quan- tity. 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 num- ber of trade items placed on a pallet layer according to supplier or retailer prefer- ences.	0..1
Trade- ItemImport- tIdentifica- tion				Trade Item_ Import Clas- sification. Details	None	
	importClas- sification- Type			Trade Item_ Import Clas- sification. Import_ Classi- fication Type. Import Classification Type Code_ Code	Imports and exports of trade items typi- cally require classification codes to de- termine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and	0..1

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					INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté	
	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, 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
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-			Trade Item Marking. Re-	Trade item has a recyclable indication	0..1

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	ItemMarkedAsRecyclable			cyclable. Indicator	marked on it. This may be a symbol from one of many regional agencies.	
TradeItem-Material				Additional_ Product_ Material Composition. Details	None	
	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.legislation	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	MultiMeas-	Physical_ Trade Item	The measurement of the diameter of the	0..1

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			urementValue	Dimensions. Diameter. Multi-unit Measure	trade item at its largest point. For example, 165 "mmt", value - mmt, diameter. Has to be associated with valid UoM.	
		drained-Weight	MultiMeas-urementValue	Physical_ Trade Item Dimensions. Drained_Weight. Multi-unit Measure	The weight of the trade item when drained of its liquid. For examples 225 "grm", 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.	0..1
		genericIn-gredient-Strength	MultiMeas-urementValue	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	MultiMeas-urementValue	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 grm", value - total pounds, total grams, etc. Has to be associated with a valid UoM.	0..1
		height	MultiMeas-urementValue	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	MultiMeas-urementValue	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 =	0..1

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					"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 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
		priceComparison-Measurement	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 priceComparison-ContentType and is required when price-ComparisonContentType is used.	0..1
		tradeItem-CompositionWidth	MultiMeasurementValue	Physical_ Trade Item Dimensions. Trade Item Composition_ Width.	The number of child-items that are packaged beside each other in a trade unit (on the side facing the consumer). This infor-	0..1

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				Multi-unit Measure	Information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf. The Space Manager always allocates Base Units in the shelf. Usually there are no pictures of Trade Units available and for Hypermarkets/Big Supermarkets there is a need to allocate whole trade units into the shelves.	
		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-			Trade Item Ordering. Agreed Maximum Buying_	The maximum quantity of the product available to the retailer.	0..1

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	Buy- ingQuantity			Quantity. Quantity		
	FirstDeliv- eryDateTime			Trade Item Ordering. First_ Delivery Date. Date Time	The earliest date at which the supplier can deliver the product to the trading partner.	0..1
	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
	orderQuanti- tyMaximum			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
	orderQuanti- tyMinimum			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
	orderQuanti- tyMultiple			Trade Item Ordering. Multiple_ Quantity. Quan- tity	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 manufac- turing / distribution point to delivery point impacts this value (relationship dependant data).	0..1
		orderSizing-	MultiMeas-	Trade Item Ordering.	A trade item specification other than	0..1

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		Factor	urementValue	Sizing_ Factor. Multi-unit Measure	gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of trade item.	
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
	palletType-Code			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	0..1

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					this date may relate to any of the following events, last order date, last ship date, and last arrival date.	
	effectiveStart-Date			Trade Item Price. Effective_ Start Date. Date Time	!! This is the effective start date of the price agreed to by the trading partners. This start date is mandatory and, if no end date is communicated, then implies that the price is effective until further notice. Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, first order date, first ship date, and first arrival date.	1..1
	value			Trade Item Price. Price. Amount	!! The default value to be used for the field when that field is not present in the file.	1..1
TradeItem-SizeDescription				Trade Item Size. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	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 trade item. Can be a combination of values which fully describe the trade item	1..1

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					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 centre.	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 centre.	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
		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

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		mum				
		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
TradeItemUnitIndicator				Trade Item Processing. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	isTradeItemABaseUnit			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
	isTradeItemAConsumerUnit			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 select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be reflected by the retailer.	1..1

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	isTradeItemDespatchUnit			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
	isTradeItemAnInvoicingUnit			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
	isTradeItemAnOrderableUnit			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
	isTradeItemAVariableUnit			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
	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
	vari-			Trade Item Processing.	Indicator to show if a product is loose or	0..1

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	ableTrade-Item Type			Variable Trade Item Type. Code	pre-packed.	
Trading-PartnerNeutralTrade-ItemInformation				Trading Partner Neutral_ Trade Item. Details	!! This is a class from the TradeItemInformation class.	
	barCo- deType			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
		None	ManufacturerOfTradeItem	Trading Partner Neutral_ Trade Item. Association. Manufacturer_ Party	None	0..*
		None	MarketingInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Marketing	None	0..1

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		None	MaterialComposition	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. Packaging	None	0..*
		None	PriceOn- TradeItem	Trading Partner Neutral_ Trade Item. Association. Price_ Packaging Marking	None	0..1
		None	PrivateInfor- mation	Trading Partner Neutral_ Trade Item. Association.	None	0..*

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				Private Data Recipient_ Party		
		None	Season	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Season	None	0..1
		None	Security- TagInforma- tion	Trading Partner Neutral_ Trade Item. Association. Security Tag	None	0..1
		None	TargetCon- sumer	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Target Con- sumer	None	0..1
		None	TradelItem- ColorDescrip- tion	Trading Partner Neutral_ Trade Item. Association. Trade Item Colour	None	0..*
		None	TradelItem- Coupon	Trading Partner Neutral_ Trade Item. Association. Trade Item Coupon	None	0..1
		None	TradelItem- DateInforma- tion	Trading Partner Neutral_ Trade Item. Association. Trade Item Date Group	None	0..1
		None	TradelItemFin- ish	Trading Partner Neutral_ Trade Item. Association. Product Finish	None	0..1
		None	TradelItem- HandlingIn- formation	Trading Partner Neutral_ Trade Item. Association. Trade Item Handling	None	0..1
		None	TradelItem- HazardousIn- formation	Trading Partner Neutral_ Trade Item. Association. Hazardous Goods	None	0..*
		None	TradelItem- Hierarchy	Trading Partner Neutral_ Trade Item. Association. Trade Item Containment	None	0..1
		None	TradelItemIm-	Trading Partner Neutral_	None	0..*

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			portIdentification	Trade Item. Association. Trade Item_ Import Classification		
		None	TradeItem-Marking	Trading Partner Neutral_ Trade Item. Association. Trade Item Marking	None	1..1
		None	TradeItemMaterial	Trading Partner Neutral_ Trade Item. Association. Additional_ Product_ Material Composition	None	0..1
		None	TradeItem-Measurements	Trading Partner Neutral_ Trade Item. Association. Physical_ Trade Item Dimensions	None	1..1
		None	TradeItemOrderInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Ordering	None	0..1
		None	TradeItemPalletInformation	Trading Partner Neutral_ Trade Item. Association. Pallet	None	0..1
		catalogue-Price	TradeItem-PriceDateInformation	Trading Partner Neutral_ Trade Item. Catalogue Price. Trade Item Price	None	0..1
		suggestedRetail-Price	TradeItem-PriceDateInformation	Trading Partner Neutral_ Trade Item. Suggested Retail Price. Trade Item Price	None	0..1
		None	TradeItem-SizeDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Size	None	0..*
		None	TradeItem-TaxInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Tax Information Group	None	0..1

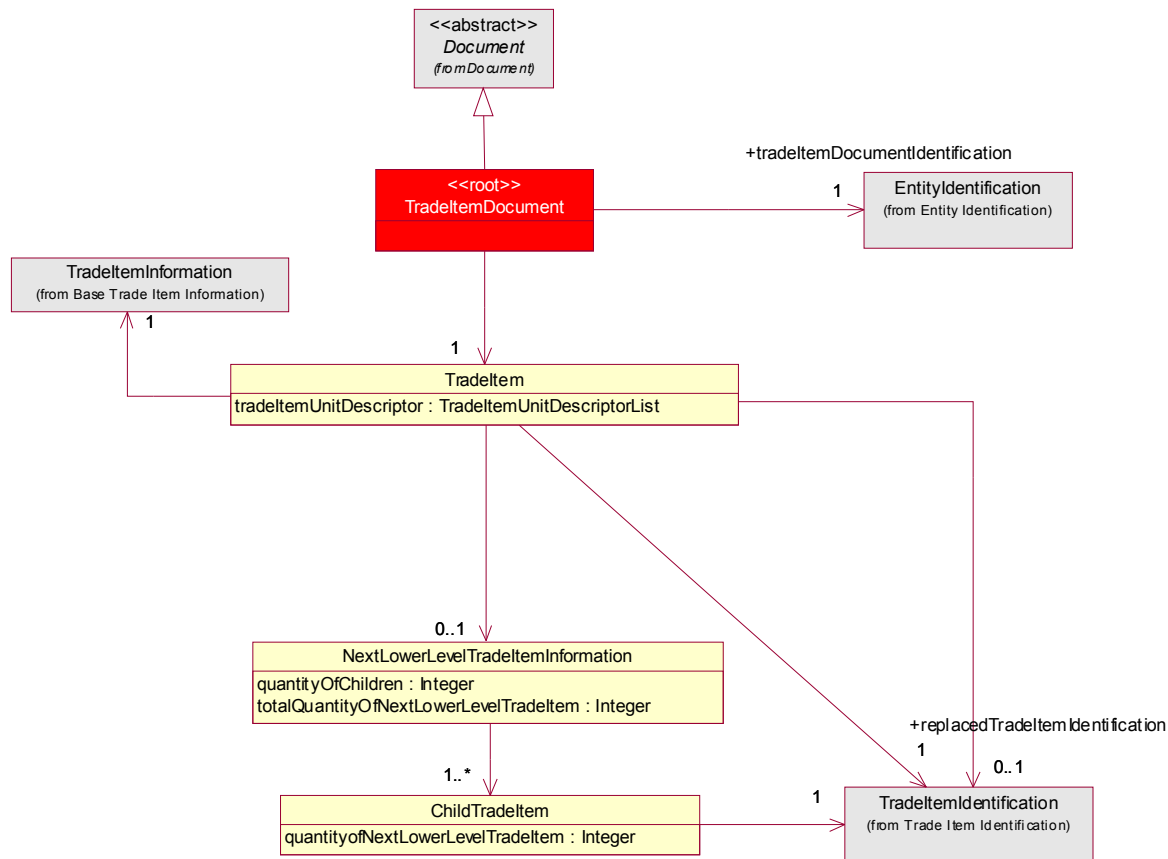
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		None	Tradeltem- Temperature- Information	Trading Partner Neutral_ Trade Item. Association. Trade Item Temperature Group	None	0..1
		None	TradeltemU- nitIndicator	Trading Partner Neutral_ Trade Item. Association. Trade Item Processing	None	1..1

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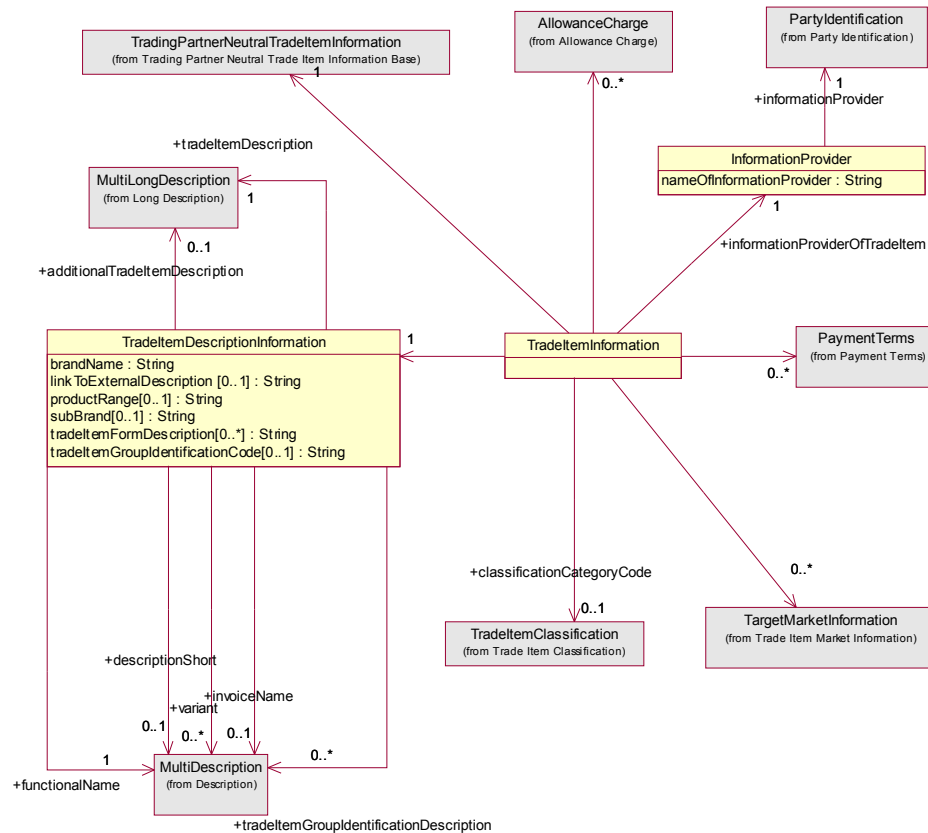
1.5.3 Class Diagrams

1.5.3.1 Class Diagram for Trade Item

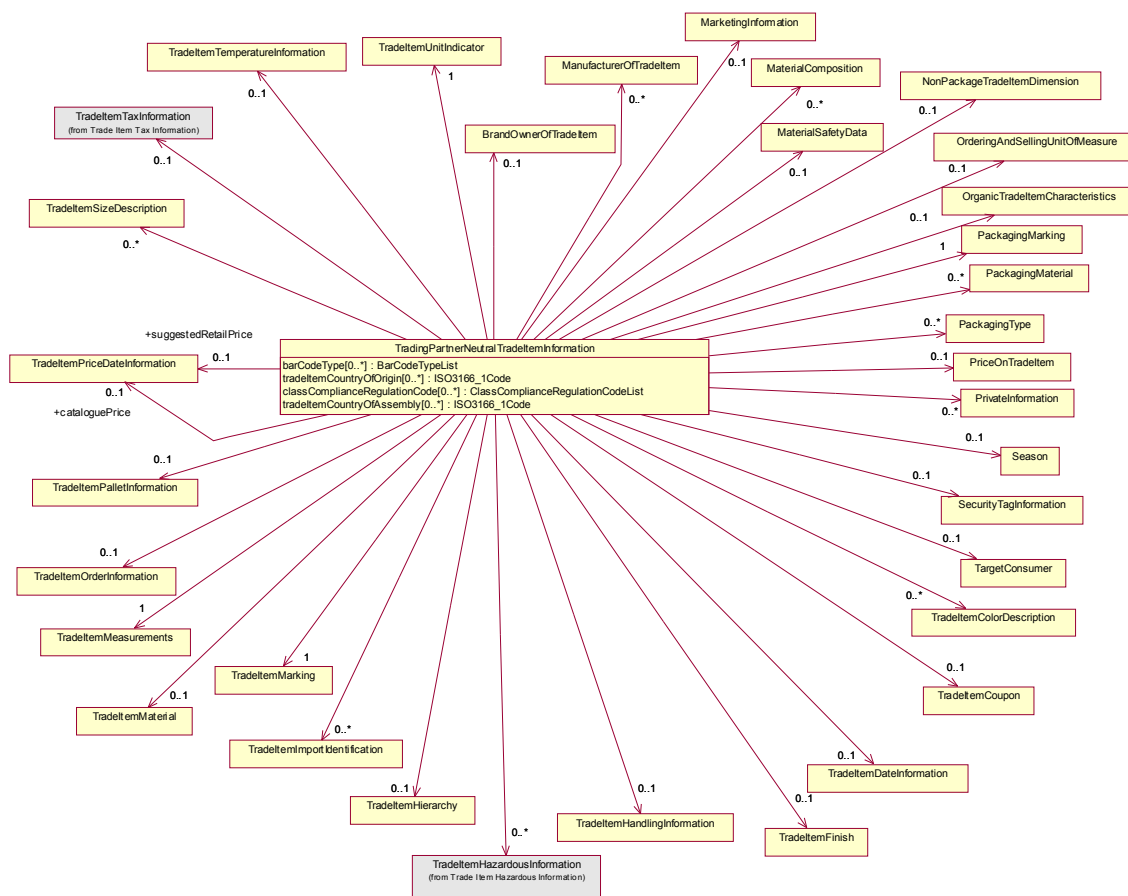


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1.5.4 Class Diagram Trade Item Information

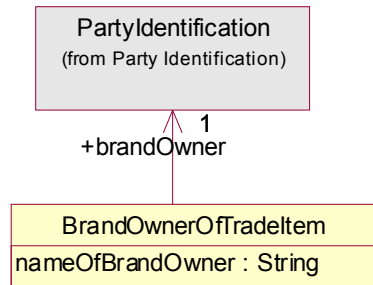


1.5.5 Class Diagram Trading Partner Neutral Trade Item Information Relationship

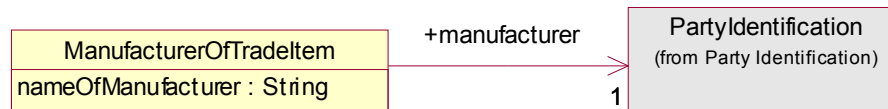


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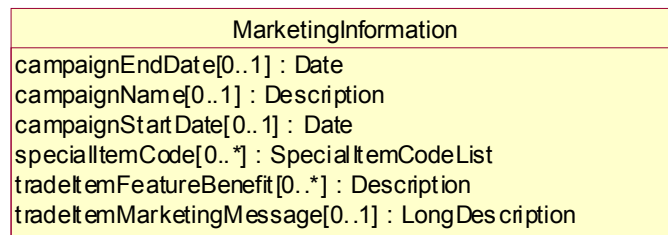
1.5.6 Class Diagram Brand Owner Of Trade Item



1.5.7 Class Diagram Manufacturer Of Trade Item

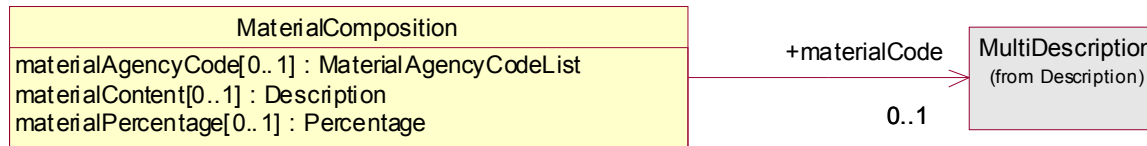


1.5.8 Class Diagram Marketing Information



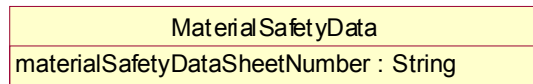
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1.5.9 Class Diagram Material Composition

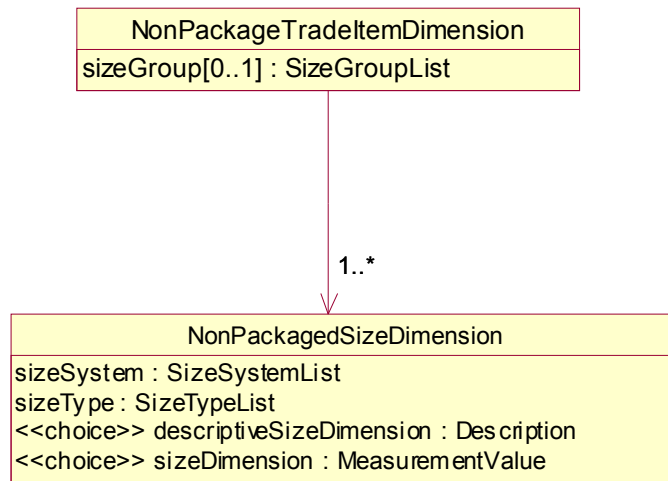


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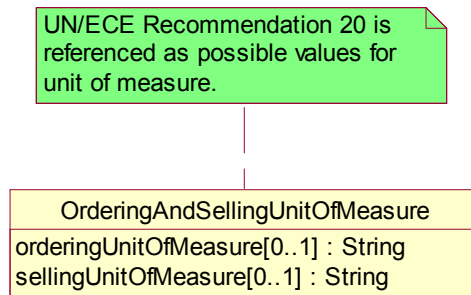
1.5.10 Class Diagram Material Safety Data



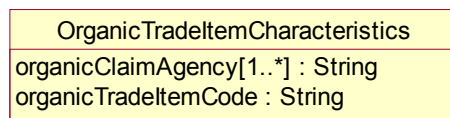
1.5.11 Class Diagram Non Package Trade Item Dimension



1.5.12 Class Diagram Ordering and Selling Unit Of Measure

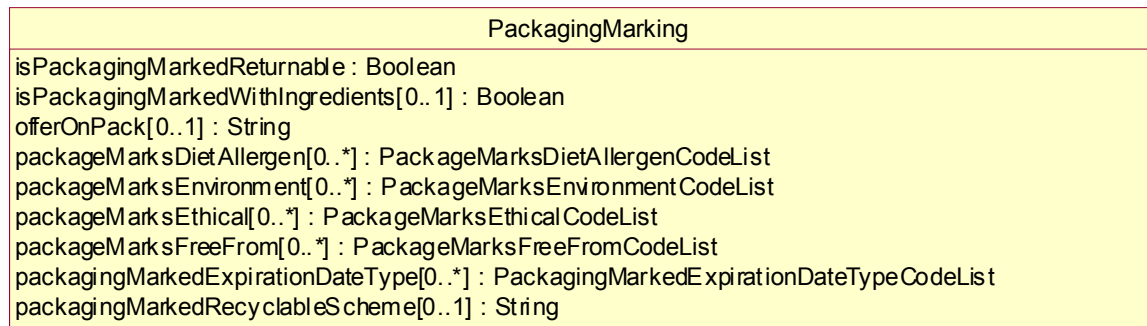


1.5.13 Class Diagram Organic Trade Item Characteristics

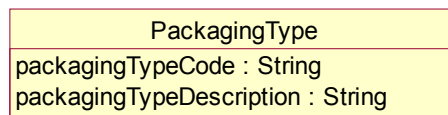


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1.5.14 Class Diagram Packaging Marking

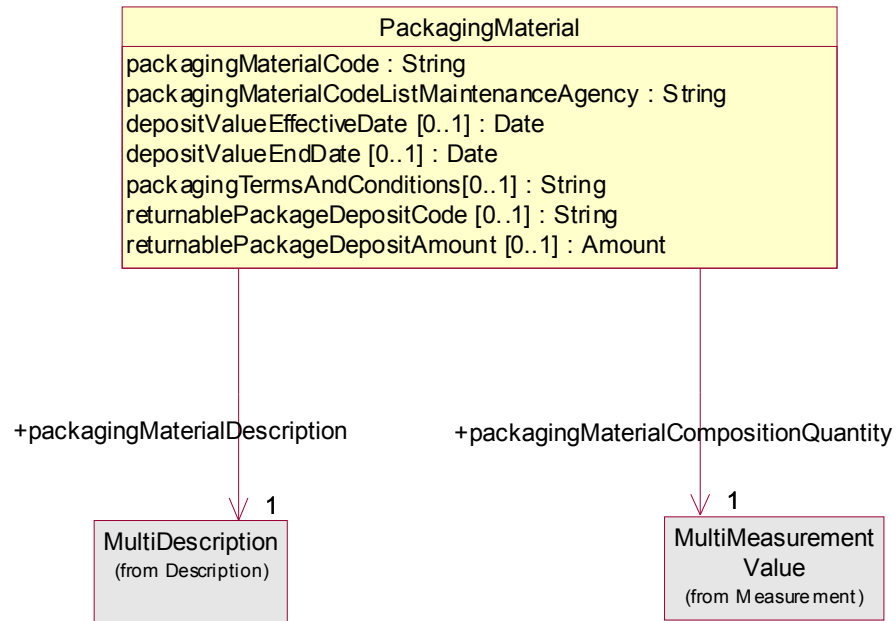


1.5.15 Class Diagram Packaging Type

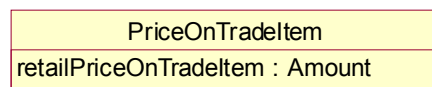


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1.5.16 Class Diagram Packaging Material

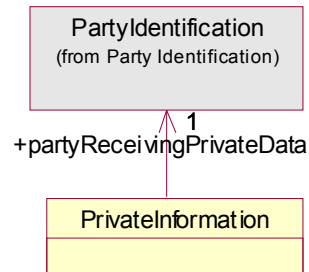


1.5.17 Class Diagram Price On Trade Item

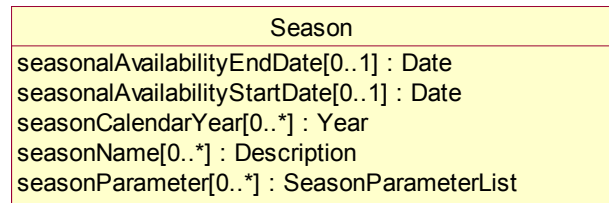


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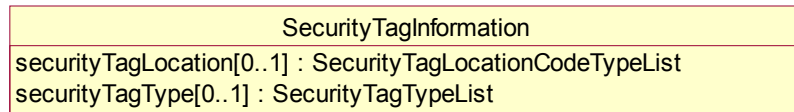
1.5.18 Class Diagram Private Information



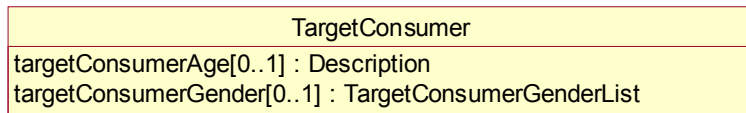
1.5.19 Class Diagram Season



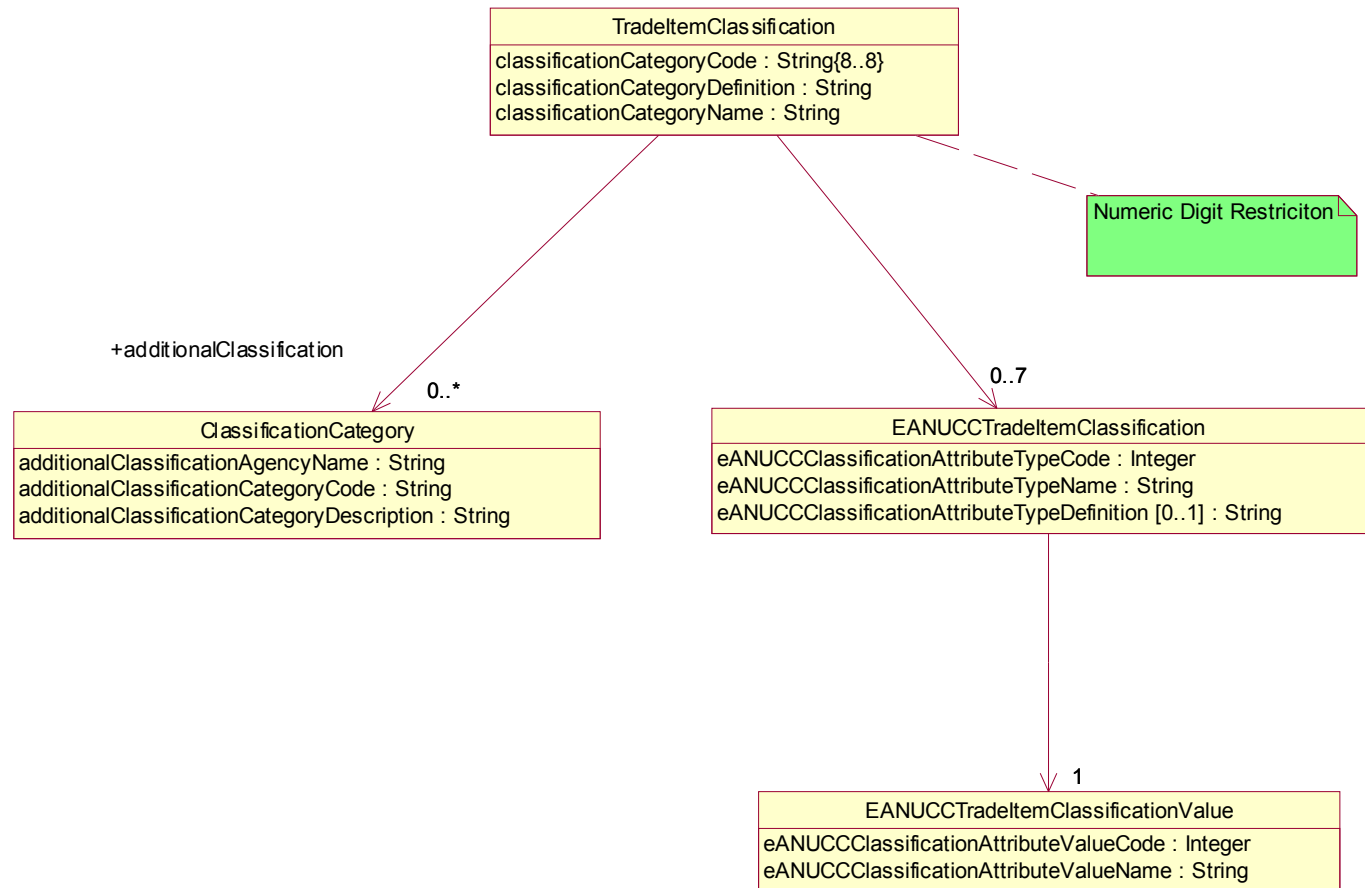
1.5.20 Class Diagram Security Tag Information



1.5.21 Class Diagram Target Consumer

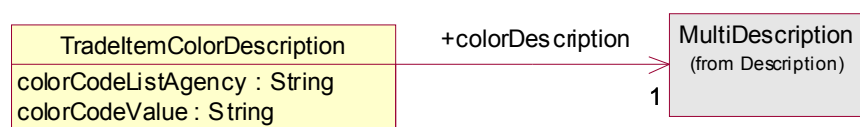


1.5.22 Class Diagram Trade Item Classification

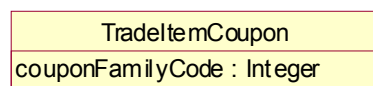


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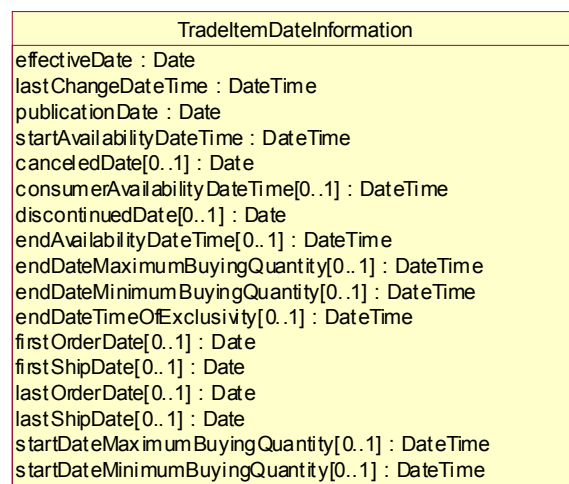
1.5.23 Class Diagram Trade Item Color Description



1.5.24 Class Diagram Trade Item Coupon

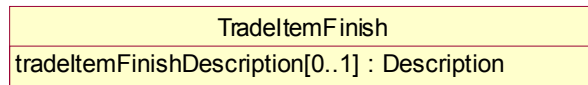


1.5.25 Class Diagram Trade Item Date Information

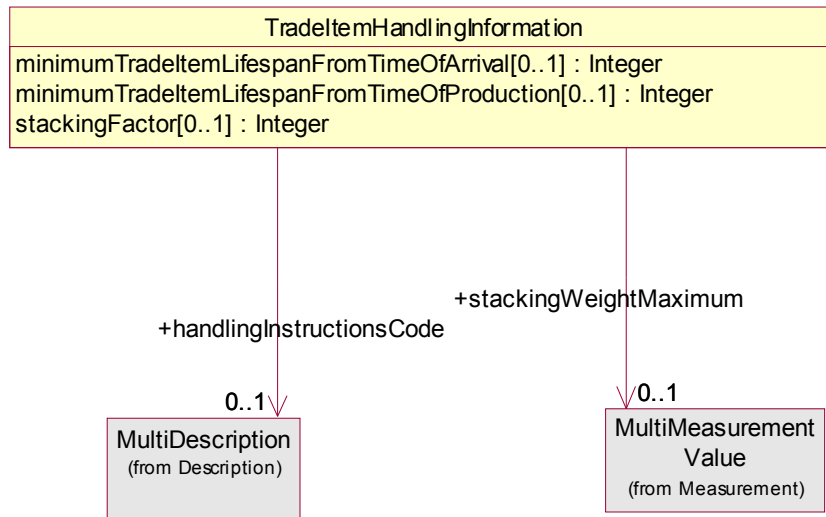


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1.5.26 Class Diagram Trade Item Finish



1.5.27 Class Diagram Trade Item Handling Information



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1.5.28 Class Diagram Trade Item Hierarchy

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

1.5.29 Trade Item Import Identification

TradeItemImportIdentification
importClassificationType[0..1] : ImportClassificationTypeList importClassificationValue[0..1] : String

1.5.30 Class Diagram Trade Item Marking

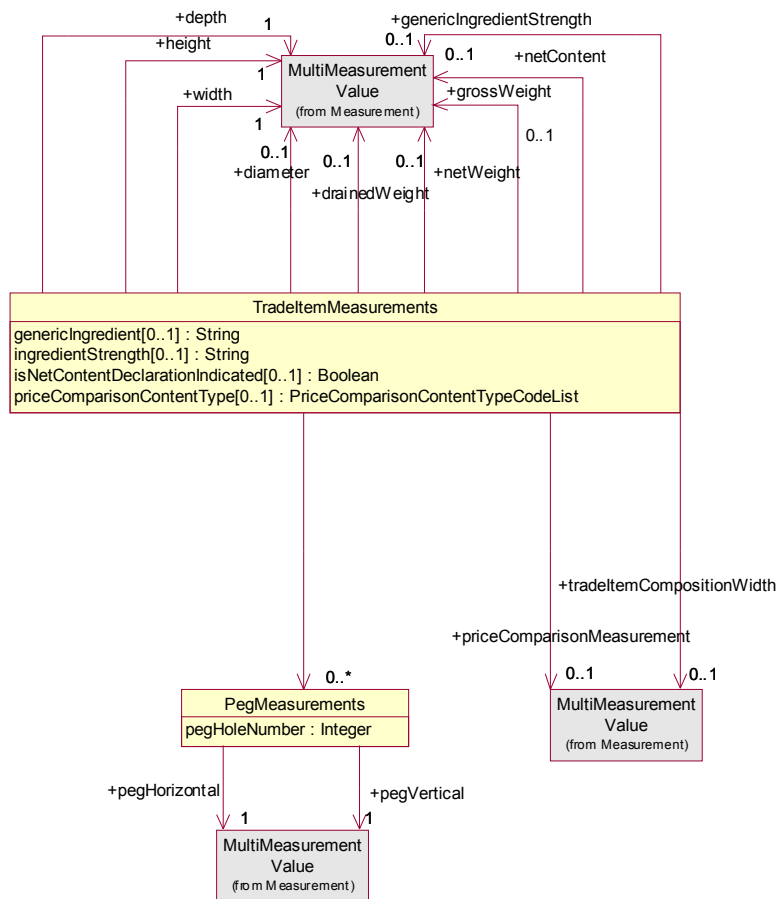
TradeItemMarking
hasBatchNumber[0..1] : Boolean isNonSoldTradeItemReturnable[0..1] : Boolean isTradeItemMarkedAsRecyclable[0..1] : Boolean

1.5.31 Class Diagram Trade Item Material

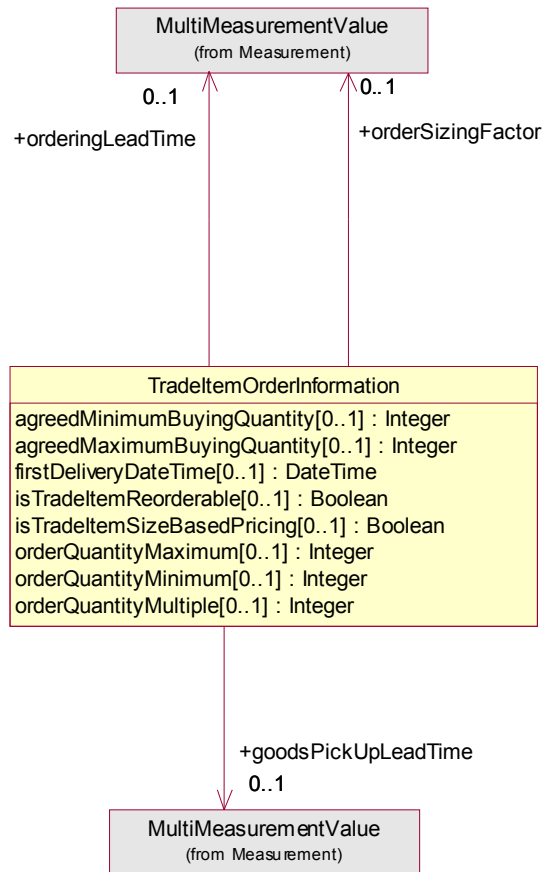
TradeItemMaterial
materialWeight[0..1] : MeasurementValue threadCount[0..1] : Description

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1.5.32 Class Diagram Trade Item Measurements



1.5.33 Class Diagram Trade Item Order Information



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1.5.34 Class Diagram Trade Item Pallet Information

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

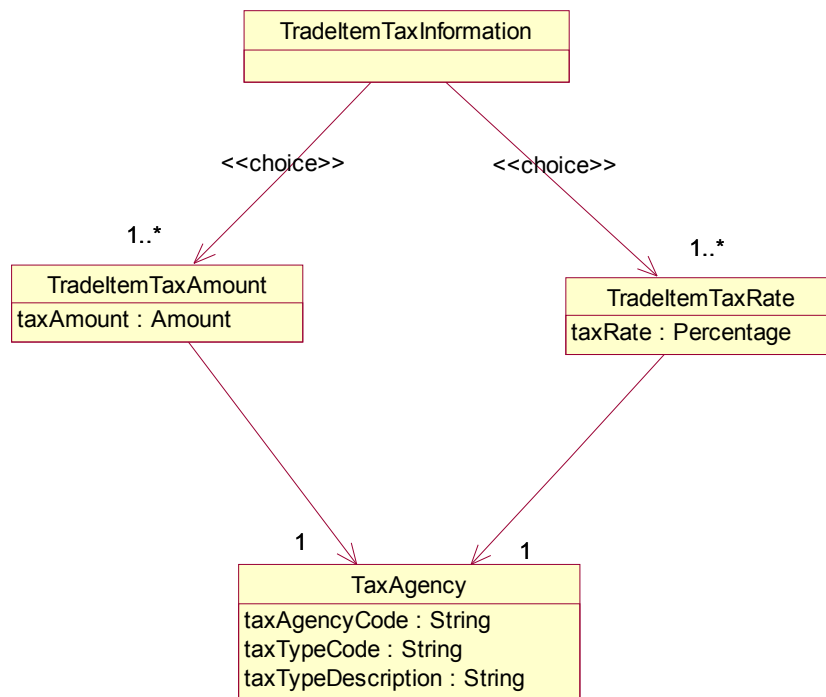
1.5.35 Class Diagram Trade Item Price Date

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

1.5.36 Class Diagram Trade Item Size Description

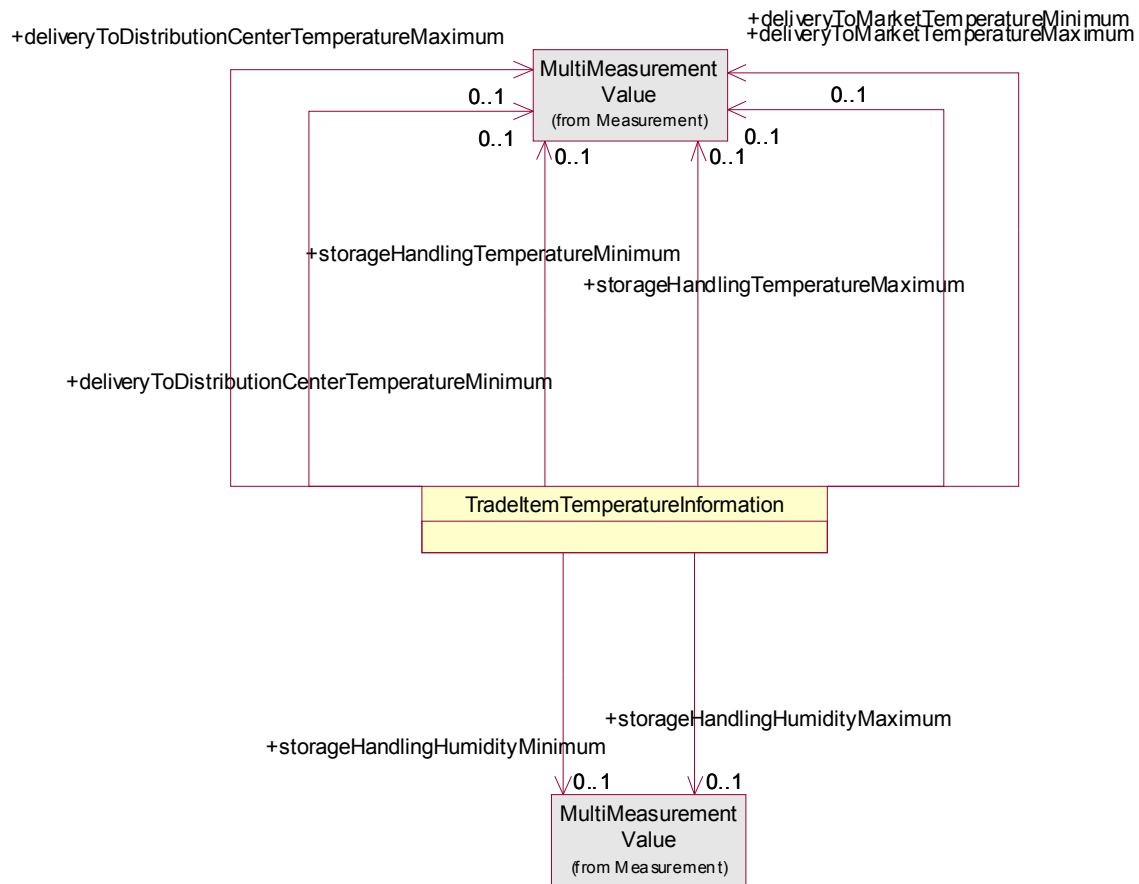
TradeItemSizeDescription
sizeCodeListAgency : String sizeCodeValue : String descriptiveSize[0..1] : Description

1.5.37 Class Diagram Trade Item Tax Information



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1.5.38 Class Diagram Trade Item Temperature Information



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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

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

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	N/A

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OF_THE_US	
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

Code List Name	Code List Description
PackageMarksDietAllergen-CodeList	
Code Name	Code Description
APPROVED_BY_ASTHMA_AND_ALLERGY_ASSOC	N/A
NYCKELHAL_MARK	N/A

Code List Name	Code List Description
PackageMarksEnvironment-CodeList	
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

Code List Name	Code List Description
PriceComparisonContentType-CodeList	
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

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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

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

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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

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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

Code List Name	Code List Description
VariableTradeItemCodeList	
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
FREE_FROM_SUGAR	N/A
REDUCED_LACTOSE	N/A

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Code List Name	Code List Description
PackagingMarkedExpiration- DateTypeCodeList	
BEST_BEFORE_DATE	N/A
EXPIRY_DATE	N/A

1.6 Business Document Example

1.7 Implementation Considerations

1.7.1 Attributes with Code List

Class Name	Item Name	Code List
TargetMarketInformation	targetMarketCountryCode	Country Codes ISO3166-1
TargetMarketInformation	targetMarketSubdivisionCode	Country Subdivision Code ISO3166-2
TradelItemPriceDateInformation	cataloguePrice	Codes for the repres. of currencies and funds ISO 4217:2001
TradelItemPriceDateInformation	suggestedRetailPrice	Codes for the repres. of currencies and funds ISO 4217:2001
PriceOnTradelItem	retailPriceOnTradelItem	Codes for the repres. of agencies and codes ISO 4217:2001
TradelItemClassification	classificationCategoryCode	Classification Attribute Type Code
EANUCCTradelItemClassification	eANUCCClassificationAttributeTypeCode	Classification Attribute Type Code
EANUCCTradelItemClassificationValue	eANUCCClassificationAttributeValueCode	Classification Attribute Value Code
ClassificationCategory	additionalClassificationAgencyName	Additional Classification Agency Name Reference 4.8.1
TradelItemDescriptionInformation	invoiceName	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradelItemDescriptionInformation	descriptionShort	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradelItemDescriptionInformation	tradelItemFormDescription	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradelItemColorDescription	tradelItemcolorDescription	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradelItemColorDescription	colorCodeListAgency	Color Code List Agency Reference 4.8.1
TradelItemSizeDescription	sizeCodeListAgency	Size Code List Agency Reference 4.8.1

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Class Name	Item Name	Code List
TradeltemMeasurements	ingredientStrength	Measure Unit Qualifier-TBD
TradeltemMeasurements	genericIngredientStrength	Measure Unit Qualifier-TBD
TradeltemMarking	hasBatchNumber	Batch Lot Number Indicator Code-TBD
FMCGTradeltemMarking	isTradeltemGeneticallyModified	GeneticModificationIndicator-TBD
FMCGTradeltemMarking	isTradeltemIrradiated	Irradiated Item Code List - TBD
OrganicTradeltemCharacteristics	organicTradeltemCode	Organic Item Code Reference 4.8.1
FMCGTradeltemMeasurements	netContent	Measure Unit Qualifier-TBD
TradeltemMeasurements	height	UN/CEFACT Recommendation 20
TradeltemMeasurements	width	UN/CEFACT Recommendation 20
TradeltemMeasurements	depth	UN/CEFACT Recommendation 20
TradeltemMeasurements	grossWeight	UN/CEFACT Recommendation 20
FMCGTradeltemMeasurements	netWeight	UN/CEFACT Recommendation 20
FMCGTradeltemMeasurements	diameter	UN/CEFACT Recommendation 20
FMCGTradeltemMeasurements	drainedWeight	UN/CEFACT Recommendation 20
PackagingType	packagingTypeCode	Packaging Type Code Reference 4.8.1
FMCGTradeltemMeasurements	pegHorizontal	Measure Unit Qualifier-TBD
FMCGTradeltemMeasurements	pegVertical	Measure Unit Qualifier-TBD
PackagingMaterial	packagingMaterialCode	Packaging Material Code List Maintenance Agency Reference 4.8.1
PackagingMaterial	packagingMaterialCompositionQuantity	Measure Unit Qualifier-TBD
PackagingMaterial	packagingTermsAndConditions	Packaging Terms and Conditions Reference 4.8.1
TradeltemHandlingInformation	stackingWeightMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	storageHandlingTemperatureMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	storageHandlingTemperatureMinimum	UN/CEFACT Recommendation 20
TradeltemHandlingInformation	handlingInstructionsCode	Handling Instructions - TBD

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Class Name	Item Name	Code List
TradelItemHandlingInformation	minimumTradelItemLifespanFromTimeOfArrival	Unit of Time Period - TBD
TradelItemTemperatureInformation	deliveryToMarketTemperatureMaximum	UN/CEFACT Recommendation 20
TradelItemTemperatureInformation	deliveryToMarketTemperatureMinimum	UN/CEFACT Recommendation 20
TradelItemTemperatureInformation	deliveryToDistributionCenterTemperatureMaximum	UN/CEFACT Recommendation 20
TradelItemTemperatureInformation	deliveryToDistributionCenterTemperatureMinimum	UN/CEFACT Recommendation 20
TradelItemOrderInformation	orderingLeadTime	Unit of Time Period - TBD
TradelItemCountryOfOrigin	countryOfOrigin	Country Codes ISO3166-1
TradelItemPalletInformation	palletTypeCode	Pallet Type Code Reference 4.8.1
TradelItemPalletInformation	palletTermsAndConditions	Pallet Terms and Condition Reference 4.8.1
TradelItemHazardousInformation	dangerousGoodsRegulationCode	Dangerous Goods Regulations - TBD
Packaging Material	packagingMaterialCodeListMaintenanceAgency	Household Packaging Recovery and Recycling Agencies
TradelItemHazardousInformation	unitedNationsDangerousGoodsNumber	UNDG Number -DE7124
TradelItemHazardousInformation	classOfDangerousGoods	UN -Class of Dangerous Goods
TradelItemHazardousInformation	flashPointTemperature	UN/CEFACT Recommendation 20
TradelItemDescriptionInformation	productRange	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradelItemDescriptionInformation	functionalName	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradelItemSizeDescription	descriptiveSize	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradelItemDescriptionInformation	tradelItemDescription	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradelItemDescriptionInformation	variant	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1

1.7.2 External Code Lists

There are several code lists used within the EAN•UCC system that are maintained by agencies other than EAN•UCC. The code lists that are reference in this section apply to several attributes within the trade item as well as other business message standards.

Language Code

The Trade Item BMS restricts the use to just the two character language code as specified in ISO 639-1; these codes are lower case.

ISO Code Lists

The following ISO codes lists are used to represent languages (for text attributes), Country and Subdivision (for country of origin and target market), and currencies (for amounts), and the source for the code list.

ISO 639-1	Codes for the representation of names of languages -- Part 1:Alpha-2 code 2002 Available from: http://www.iso.ch or http://www.loc.gov/standards/iso639-2/langcodes.html#ef See Code List Source Bibliography section of this document.
ISO 3166-1	Part 1 - Country Codes (Three Digit Format) Available from: http://www.iso.ch
ISO 3166-2	Part 2 - Alpha Country Subdivision Code Available from: http://www.iso.ch
ISO 4217	Codes for the representation of currencies and funds 2001 Available from: http://www.iso.ch

EAN•UCC has three choices for code values:

Reference an external source like ISO.

Maintain a code list unique to the EAN•UCC system.

Maintain a code list based on an external code list.

Any code list EAN•UCC maintains will need to be accessible to the community and maintained in such a way as to be detached from the schema versioning. The end result is the code lists will be managed outside of the schemas in such a way to remain easy to update and allow for the syntax checking of code values as is done with enumerated lists.

Unit of Measure

The Unit of Measure (UOM) code is used throughout the EAN•UCC System. In order to provide the best value to the EAN•UCC community the UOM code list will be maintained by EAN•UCC for its community. It is anticipated additional code values will be required. When the business requirements are defined additional code values can be added. The following is the starting point.

EAN•UCC Unit Of Measures

Code	Code Description
26	Actual Ton
Z51	Application (e.g. in hair colorant, 6 applications)
AS	Assortment
BG	Bag
BA	Bale
BI	Bar
BR	Barrel
BL	Block
B8	Board
BF	Board Feet
BO	Bottle
BX	Box
BN	Bulk
BD	Bundle
BU	Bushel
CN	Can
CG	Card

EAN•UCC Unit Of Measures	
Code	Code Description
CT	Carton
CQ	Cartridge
CA	Case
AF	Centigram
C3	Centiliter
CM	Centimeter
1N	Count
CV	Cover
CC	Cubic Centimeter
C8	Cubic Decimeter
CF	Cubic Feet
CI	Cubic Inches
CR	Cubic Meter
CO	Cubic Meters (Net)
MMQ	Cubic Millimetre
CU	Cup
DA	Days
DG	Decigram
DL	Deciliter
DM	Decimeter
CE	Degrees Celsius (Centigrade)
FA	Degrees Fahrenheit
DS	Display
DO	Dollars, U.S.
DZ	Dozen
DR	Drum
EA	Each
EV	Envelope
FT	Feet
UZ	Fifty Count
UY	Fifty Square Feet
FO	Fluid Ounce
GA	Gallon
GR	Gram
GT	Gross Kilogram
HD	Half Dozen
HC	Hundred Count
HL	Hundred Feet
CW	Hundred Pounds (CWT)
IN	Inches

EAN•UCC Unit Of Measures	
Code	Code Description
JR	Jar
KE	Keg
KG	Kilogram
DK	Kilometer
KT	Kit
LR	Layer(s)
LF	Linear Foot
LM	Linear Meter
LK	Link
LT	Liter
MR	Meter
MP	Metric Ton
MC	Microgram
4G	Microliter
ME	Milligram
ML	Milliliter
MM	Millimeter
MX	Mod Pallet (Mixed)
58	Net Kilograms
OZ	Ounces
PH	Pack
PK	Package
PA	Pail
PR	Pair
PL	Pallet
PY	Peck, Dry U.S.
P1	Percent
PC	Piece
PT	Pint
PTN	Portion
V2	Pouch
LB	Pounds
PE	Pounds Equivalent
PG	Pounds Gross
PN	Pounds Net
QT	Quart
QS	Quart, Dry
RL	Roll
ST	Set
SH	Sheet

EAN•UCC Unit Of Measures	
Code	Code Description
SX	Shipment
FJ	Sizing Factor
SF	Square Foot
SM	Square Meter
SY	Square Yard
15	Stick
TK	Tank
TM	Thousand Feet
TE	Tote
NT	Trailer
TY	Tray
Z52	Usage (e.g. in laundry, 24 usage)
UN	Unit
YD	Yard

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Additional Classification Agency Name

Attribute Name	Comments	
	Code	Code Description
additionalClassificationAgencyName	Part of AdditionalClassification class. It is currently a string 1 to 35 Characters. This should be an EAN*UCC maintained code List. Values should be:	
	1	UDEX, LTD
	2	IRI
	3	AC Nielsen
	4	ECCC Interim Class Codes
	5	UNSPSC – United Nations Standard Products and Services Code
	6	UNSPSC - Electronic Commerce Code Management Association

Color Code List Agency

Attribute Name	Comments	
	Code	Code Description
ColorCodeListAgency	Part of TradeItemColorDescription class It is String 1 to 3 characters. This should be an EAN*UCC maintained code List. Values should be:	
	1	National Retail Federation – Standard Color & Size Codes This handbook provides guidelines for use in retailers' and vendors' merchandising and communications systems. http://www.nrf.com
	2	PANTONE MATCHING SYSTEM The definitive international reference for selecting, specifying, matching and controlling ink colors. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colors on coated, uncoated and matte stock, shows corresponding printing ink formulas for each color, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control. Pantone® Inc http://www.pantone.com
	3	PANTONE Process Color System® Provides a comprehensive palette of more than 3,000 colors achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Color to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Color Reference Guides for the graphic arts include metallics, pastels, tints, duotones, film and foil. The PANTONE Hexachrome® Color System Pantone® Inc http://www.pantone.com

Color Code List Agency

Attribute Name	Comments	
	Code	Code Description
colorCodeListAgency (continued)	4	The PANTONE Hexachrome® Color System A six-color ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colors than standard four-color process printing Pantone® Inc http://www.pantone.com
	5	PANTONE TEXTILE Color System® A vital tool for designers in the apparel, home furnishings and interior design industries for selecting and specifying color used in the manufacture of textiles and fashion. The System - consisting of 1,932 colors in cotton or paper format - is ideal for assembling creative palettes and conceptual color schemes, and for providing color communication and control in the manufacturing process. In January of 2001 Pantone Inc. included the NRF Color Codes into the PANTONE TEXTILE Color System. Pantone® Inc http://www.pantone.com
	6	Assigned by Buyer
	7	Assigned by Seller

Size Code List Agency

Attribute Name	Comments	
	Code	Code Description
sizeCodeListAgency		Part of TradeltemSizeDescription class It is String 1 to 3 characters. This should be an EAN*UCC maintained code List. Values should be
	1	National Retail Federation – Standard Color & Size Codes This handbook provides guidelines for use in retailers' and vendors' merchandising and communications systems. http://www.nrf.com
	2	Assigned by Buyer
	3	Assigned by Seller

Organic Trade Item Code

Attribute Name	Comments	
	Code	Code Description

Attribute Name	Comments	
	Code	Code Description
organicTradeltemCode	Part of OrganicTradeltemCharacteristics class It is String 1 to 35 characters. This should be an EAN*UCC maintained code List. Values should be (as specified in the BRD)	
	1	100% Organic
	2	Organic (at least 95% by weight)
	3	Made with organic ingredients (at least 70% by weight)
	4	Some organic ingredients (less than 70% by weight)
	5	Not Organic
	6	In conversion (products presently in conversion to the organic standard)
	7	Bio Dynamic (a cousin to the organic system)
	8	Disqualified (GTINs that violate organic principles, with attributes such as isTradeltemGenetically-Modified or isTradeltemIrradiated being true)

Organic Claim Agency

Attribute Name	Comments	
	Code	Code Description
organicClaimAgency	Part of OrganicTradeltemCharacteristics class It is String 1 to 35 characters. It is still not real clear what the usage or intended usage is. This should be an EAN*UCC maintained code List. Values should be	
	1	EPA – US Environmental Protection Agency
	2	FSA – UK Food Standards Agency
	3	FDA – US Food and Drug Agency
	4	International Foundation for Organic Agriculture

Packaging Type Code

Attribute Name	Comments	
	Code	Code Description
packagingTypeCode	<p>Part of PackagingType class. It is String 1 to 3 characters. The BRD states "List of authorized code values based on UN-ECE 21 Recommendations", however the attribute with code list table suggest a merger of ANSI DE 103 and EANCOM DE 7065. It would be a very large list to combine DE103 and DE7065 because DE103 is a two-part list.</p> <p>Recommend using ANSI DE 103 Part 1 – Packaging Form and making it a EAN•UCC maintained code list. This seems to be more in-line with the intent of this attribute and packagingMaterialCode</p>	
	AAA	Pallet, Returnable
	AAB	Splash Blend Splash blending is the mixing of two gasoline products, of different octane levels, in a tank on the delivery vehicle to produce a third blended grade of motor fuel for re-sale
	AE	Aerosol
	AMM	Ammo Pack
	AMP	Ampoule
	AT	Atomizer
	ATH	Attachment In containers and shipping devices, a component that can be added to provide additional functionality or security as required by the contents or method of transportation/handling
	BAG	Bag
	BAL	Bale
	BBL	Barrel
	BRC	Bracing Material or devices used to hold articles or sections of loads in position to prevent shifting during transportation
	BDG	Banding Something that binds, ties, or encircles the package/container to secure and maintain unit integrity
	BDL	Bundle
	BEM	Beam
	BIC	Bing Chest
	BIN	Bin
	BLK	Bulk

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Packaging Type Code

Code	Code Description
BLT	Belting As pertains to containers and shipping devices, a method of securing the contents to the conveyance device (or securing components of the shipping device to each other) using one or more bands of flexible material having high-tensile strength and a buckle or ratchet device for removing slack and maintaining tension
BME	Blister Pack
BOB	Bobbin
BOT	Bottle
BOX	Box
BRG	Barge
BSK	Basket or hamper
BXI	Box, with inner container
BXT	Bucket
CAB	Cabinet
CAG	Cage
CAN	Can
CNA	Household Goods Container, Wood
CAR	Carrier
CAS	Case
CBC	Containers of Bulk Cargo
CBY	Carboy
CCS	Can Case
CG	Card
CHE	Cheeses
CHS	Chest
CLD	Car Load, Rail
CMS	Clamshell
CNB	Container, MAC-ISO, LT. WGT. 8x8x20 Foot Air
CNC	Container, Navy Cargo Transporter
CND	Container, Commercial Highway Lift
CNE	Container, Engine
CNF	Container, Multi-walled, Secured to Warehouse Pallet
CNT	Container
COL	Coil
CON	Cones
COR	Core
CRD	Cradle
CRF	Corner Reinforcement Usually in boxes or crates, additional material or components attached to adjacent panels to add support or prevent crushing or separation
CRT	Crate
CSK	Cask
CTN	Carton
CX2	CONEX A reusable container for shipment of cargo

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Code	Code Description
CU	Cup
CYL	Cylinder
DBK	Dry Bulk
DRK	Double-length Rack
DRM	Drum
DSK	Double-length Skid
DTB	Double-length Tote Bin
DUF	Duffelbag
EGG	Egg Crating In containers and shipping devices, usually describes a type of interior dunnage which allows the contents to be individually segregated, horizontally and vertically, to provide protection during transportation and storage
ENV	Envelope
EPR	Edge Protection A right-angle piece placed over the outermost perimeter edges of a container to distribute pressure and prevent collapse or cutting from banding, strapping, or handling
FIR	Firkin
FLO	Flo-bin
FRM	Frame
FSK	Flask
FWR	Forward Reel
HPR	Hamper
HPT	Hopper Truck
HRB	On Hanger or Rack in Boxes
HRK	Half-Standard Rack
HTB	Half-Standard Tote Bin
INT	Intermediate Container
JAR	Jar
KEG	Keg
KIT	Kit
KRK	Knockdown Rack
KTB	Knockdown Tote Bin
LAB	Label Tag
LID	Lip/Top In packaging, the top or bottom of a container, usually the part that closes the opening; may also be known as cap, over, or top
LIF	Lifts
LNR	Liners Any material that separates a product within a container from the basic walls of the container
LOG	Log
LSE	Loose
LUG	Lug
LVN	Lift Van

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Code	Code Description
MIX	Mixed Container Types More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)
ML2	MILVAN A military owned demountable container that conforms to US and international standards and operates in a centrally controlled fleet for movement of military cargo
MPE	Multipack
MRP	Multi-Roll Pack
MS2	MSCVAN A commercial (leased) or Government-owned shipping container controlled by the Military Sealift Command.
MXD	Mixed
NOL	Noil
PA	Packet
PAF	Pallet – 4 Way A pallet that permits entry of handling equipment on each of its four sides
PAL	Pail
PAT	Pallet - 2 Way A pallet that permits entry of handling equipment on opposing two of its four sides
PCK	Packed - not otherwise specified
PCS	Pieces
PIR	Pirns
PKG	Package
PLC	Primary Lift Container The largest (outermost) unitized package or articles secured together that can be handled (usually mechanically) in common shop floor/warehouse applications as a single entity; "primary" indicates preferred or mandatory
PLF	Platform
PLN	Pipeline
PLT	Pallet
PO	Pouch
POV	Private Vehicle
PRK	Pipe Rack
PRT	Partitioning The proceeds of applying separators or dividers
PUN	Punnet
PWT	Plastic-Wrapped Tray
RAL	Rail (Semiconductor)
RCK	Rack
REL	Reel

Code	Code Description
RFT	Reinforcement In containers and shipping devices, a component (usually temporary) added to a container for a particular application to lend additional support under severe applications
ROL	Roll
RVR	Reverse Reel
SAK	Sack
SCS	Suitcase
SHK	Shook
SHT	Sheet A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package
SKD	Skid
SKE	Skid, elevating or lift truck
SLP	Slip Sheet Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
SLV	Sleeve
SPI	Spin Cylinders
SPL	Spool
SPR	Separator/Divider In packaging, any material inserted between tiers or layers of articles to prevent contact and provide protection
SRW	Shrink Wrap In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents
STW	Stretch Wrap In packaging, a high-tensile plastic film, stretched and wrapped repeatedly around a unitized load to secure and maintain unit integrity
SV2	SEAVAN A commercial or government-owned (or leased) shipping container which is moved via ocean transportation without wheels attached and is lifted on and off a ship
TBE	Tube
TBN	Tote Bin
TKR	Tank Car
TKT	Tank Truck
TLD	Intermodal Trailer/Container Load (Rail)
TNK	Tank
TRC	Tierce
TRK	Trunk and Chest

Code	Code Description
TRU	Truck
TRY	Tray
TSS	Trunk, Salesmen Sample
TUB	Tub
UNP	Unpacked
UNT	Unit
UVQ	Wrapped in Plastic
VEH	Vehicles
VIL	Vial
VOC	Vehicle in Operating Condition
VPK	Van Pack
VP	Vacuum Packed
WHE	On Own Wheel
WLC	Wheeled Carrier
WRP	Wrapped

Packaging Material Code

Packaging Material Code List Maintenance Agency

Attribute Name	Comments	
	Code	Code Description
packagingMaterialCode	Part of PackagingMaterialType class. It is String 1 to 3 characters. The BRD states "Code source needs to be defined. Currently a European Union table of code lists exists for this requirement". However, it would seem that the packagingMaterialCodeListMaintenanceAgency would qualify this attribute since the agency code is required if this attribute is populated. The definition should read: "The code specifying the packaging material from the code list identified in packagingMaterialCodeListMaintenanceAgency."	
packagingMaterialCodeListMaintenanceAgency	Part of PackagingMaterialType class. It is String 1 to 3 characters. This should be an EAN*UCC maintained code List. Values should be	
	1	UN/CEFACT – Recommendation 21 Codes for Passengers, Types of Cargo, Packages, and Packaging Material. Available at http://www.unece.org/cefact/
	E	EAN•UCC maintained Packaging Material code list. (see appendix for code list)

Packaging Terms and Conditions

Attribute Name	Comments	
	Code	Code Description
packagingTermsAndConditions	Part of PackagingMaterialType class. It is String 1 to 3 characters. The BRD states authorized values based on EANCOM 7073, X12 DE102 and X12 DE399. The following list represents DE 7073 and DE399; DE102 does not apply. This should be an EAN*UCC maintained code List. Values should be:	
	1	Packaging cost paid by supplier The cost of packaging is paid by the supplier
	2	Packaging cost paid by recipient. The cost of packaging is paid by the recipient
	3	Packaging cost not charged (returnable) There is no charge for packaging because it is returnable.
	4	Safe return deposit A deposit paid to guarantee the safe return of the package.
	5	Not reusable The package is not reusable. The equipment may only be used once and is not reusable for the purpose for which it was designed
	6	Package exchangeable at the point of delivery The package may be exchanged at the point of delivery.
	7	Repack in Code identifying that goods should be repacked from the identified package.
	8	Unpack from Code identifying that goods should be unpacked from the identified package.
	9	Pack in Code identifying that goods should be packed from the identified package.
	10	Rented The package has been/will be rented from a rental agency (e.g. CHEP pallets).
	11	Labelled The package is labelled

Pallet Type Code

Attribute Name	Comments	
	Code	Code Description
palletTypeCode	Part of TradeItemPalletInformation class. It is String 1 to 3 characters. The descriptions are from X12 DE883 and EANCOM DE7065. This should be an EAN*UCC maintained code List. Values should be	

Attribute Name	Comments	
	Code	Code Description
	1	Soft Wood
	2	Aluminum
	3	As Specified by the Department of Transportation (DOT)
	4	Hard Wood
	5	Metal
	6	Standard
	7	Steel
	8	Wood
	9	Slip sheet Typically cardboard or plastic sheets used to hold product for storage or transportation
	10	Pallet ISO 0 - 1/2 EURO Pallet Standard pallet with dimensions 80 X 60 cm.
	11	Pallet ISO 1 - 1/1 EURO Pallet Standard pallet with dimensions 80 X 120 cm.
	12	Pallet ISO 2 Standard pallet with dimensions 100 X 120 cm.
	13	1/4 EURO Pallet Standard pallet with dimensions 60 X 40 cm.
	14	1/8 EURO Pallet Standard pallet with dimensions 40 X 30 cm.
	15	Synthetic pallet ISO 1 A standard pallet with standard dimensions 80*120cm made of a synthetic material for hygienic reasons.
	16	Synthetic pallet ISO 2 A standard pallet with standard dimensions 100*120cm made of a synthetic material for hygienic reasons.
	17	Wholesaler pallet Pallet provided by the wholesaler
	18	Pallet 80 X 100 cm Pallet with dimensions 80 X 100 cm.
	19	Pallet 60 X 100 cm Pallet with dimensions 60 X 100 cm.
	20	Pallet, modular, collars 80cms * 100cms
	21	Pallet, modular, collars 80cms * 120cms
	22	CHEP Pallet 40 X 60 cm
	23	CHEP Pallet 80 X 120 cm
	24	CHEP Pallet 100 X 120 cm
	25	AS 4068-1993 Australian Pallet with dimension 115.5 X 116.5 cm

Pallet Terms and Conditions

Attribute Name	Comments	
	Code	Code Description
palletTermsAndConditions	Part of TradeItemPalletInformation class. It is String 1 to 2 characters. List of authorized values based on EANCOM 7073, X12 DE102 and X12 DE399. This is the same code source referenced by packagingTermsAndConditions. This should be an EAN*UCC maintained code list. It should be extended to 1 to 3 characters. Values should be	
	1	No Exchange / No Return Pallet
	2	Exchange Pallets
	3	Return Pallets
	4	Pallets to be Purchased by Customer
	5	Pallet – Third Party Exchange A pallet exchange program where a third party rents pallets for internal or external use.
	6	One-way pallet Pallet need not be returned to the point of expedition.
	7	Returnable pallet Pallet must be returned to the point of expedition.

EAN•UCC Packaging Material Codes

Attribute Name	Comments	
	Code	Code Description
packagingMaterialCode	The following is the two-character code list to be used with element packageMaterialCode when packageMaterialCodeListMaintenanceAgency contains a value of “E”.	
	01	Aluminium
	03	Hard Wood
	04	As Specified by the DOT
	05	Soft Wood
	07	Burlap
	10	Chemically Hardened Fibre
	13	Cloth
	16	Cloth Top
	19	Cloth or Fabric
	22	Compressed
	25	Corrugated or Solid
	28	Double-wall Paper
	31	Fibre
	34	Fibre (Paperboard)
	37	Fibreboard
	40	Fibreboard Metal
	43	Glass
	46	In Inner Containers

Attribute Name	Comments	
	Code	Code Description
	48	Wire/Cord Something that binds, ties, or encircles the package/container to secure and maintain unit integrity
	49	Insulated
	50	Steel - Vinyl Coated Steel that has been covered with a plastic material
	51	Wire Mesh
	52	Iron or Steel
	53	Jumbo
	54	Special Jumbo
	55	Lead
	58	Metal
	59	Metal Cans
	61	Moisture Resistant
	64	Moulded Plastic
	67	Multiple-wall Paper (2 or more walls)
	70	Multiple-wall Paper (3 or more walls)
	71	Not Otherwise Specified
	72	Paper – VCI Water-resistant paper that is treated by the addition of materials to provide resistance to damage or deterioration by water in liquid form
	73	Other than Glass
	74	Other than Metal or Plastic Tubes, or Glass
	75	Plastic - Vacuum Formed Packaging material that is formed by heating plastic sheet and drawing it against the mould surface by evacuating the air between the sheet and the mould
	76	Paper
	77	Plastic - Structural Foam A method of manufacturing containers and shipping devices by mixing plastic resins with a foaming agent, heating it and injecting the mix into a two-piece machined aluminium mould
	78	Plastic - Injection Moulded Packaging material that is formed by melting the material and then forcing it under pressure into a cavity of a closed mould
	79	Plastic
	80	Polyethylene Lined
	81	Plastic – Virgin Plastic in the form of pellets, granules, powder, floc, or liquid that has not been subjected to use or processing other than for its initial manufacture
	82	Pulpboard

Attribute Name	Comments	
	Code	Code Description
	83	Plastic – Regrind A plastic prepared from discarded articles that have been reprocessed, often changing some of its original properties
	84	Polystyrene A polymer prepared by the polymerization of styrene as the sole monomer
	85	Rubber
	86	Foam In packaging, a cushioning material used to reduce shock and vibration or abrasion
	88	Rubber and Fabric
	89	Special
	90	Standard
	91	Stainless Steel
	92	Tubes, Metal or Plastic
	94	Wood
	95	Single Wall Corrugated Board The structure formed by one corrugated inner member between two flat facings; also known as double face
	96	Double Wall Corrugated Board The structure formed by three flat facings and two intermediate corrugated members
	97	Triple Wall Corrugated Board The structure formed by four flat facings and three intermediate corrugated members

1.7.3 Relationship to Global Data Synchronization process

The Data Sync Trade Item model was built keeping in mind the design of the data synchronization process being developed by the Data Sync Project Team under the Align Data BRG.

The key principle that is carried over from that work is the assumption that when a trade item's information is transmitted from an information provider to a data pool, and data pool to data pool (in network data synchronization) that the entire product hierarchy is transmitted. In the grocery industry, that product hierarchy will normally include item, case and pallet, and may also include other levels as listed above in section 4.1. A message detailing information about a trade item must include at least one consumable and one orderable unit. Included in this product hierarchy, it is understood that each link connecting the various levels is also considered to be a part of the message.

1.8 Testing

1.8.1 Pass / Fail Criteria

Not defined.

Business Solution Design

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>

1.9 Appendices

1.9.1 Appendix C: Attribute Variations

Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global) (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
additionalClassificationAgencyName	Yes	N (Global)	T.P.Neutral
additionalClassificationCategoryCode	Yes	N (Global)	T.P.Neutral
additionalClassificationCategoryDescription	Yes	N (Global)	T.P.Neutral
additionalTradeItemDescription	No	Y (Global/Local)	T.P.Neutral
agreedMaximumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
agreedMinimumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
alternateItemIdentification	No	Y (Global/Local)	T.P.Neutral
barCodeType	Yes	N (Global)	T.P.Neutral
brandName	No	N (Global)	T.P.Neutral
brandOwner	No	N (Global)	T.P.Neutral
campaignEndDate	No	N (Global)	T.P.Neutral
campaignName	No	N (Global)	T.P.Neutral
campaignStartDate	No	N (Global)	T.P.Neutral
canceledDate	No	N (Global)	T.P.Neutral
cataloguePrice	No	Y (Global/Local)	T.P.Neutral
classComplianceRegulationCode	Yes	Y (Global/Local)	T.P.Neutral
classOfDangerousGoods	Yes	N (Global)	T.P.Neutral
colorCodeListAgency	Yes	N (Global)	T.P.Neutral
colorCodeValue	Yes	N (Global)	T.P.Neutral
colorDescription	Yes	N (Global)	T.P.Neutral
consumerAvailabilityDateTime	No	Y (Global/Local)	T.P.Neutral
countryOfOrigin	Yes	N (Global)	T.P.Neutral
couponFamilyCode	No	Y (Local)	T.P.Neutral
dangerousGoodsAMarginNumber	Yes	Y (Local)	T.P.Neutral
dangerousGoodsHazardousCode	Yes	N (Global)	T.P.Neutral
dangerousGoodsIndicator	No	Y (Global/Local)	T.P.Neutral
dangerousGoodsPackingGroup	Yes	N (Global)	T.P.Neutral
dangerousGoodsRegulationCode	Yes	N (Global)	T.P.Neutral
dangerousGoodsShippingName	Yes	N (Global)	T.P.Neutral
dangerousGoodsTechnicalName	Yes	N (Global)	T.P.Neutral
deliveryToDistributionCenterTemperatureMaximum	No	N (Global)	T.P.Neutral
deliveryToDistributionCenterTemperatureMinimum	No	N (Global)	T.P.Neutral
deliveryToMarketTemperatureMaximum	No	N (Global)	T.P.Neutral
deliveryToMarketTemperatureMinimum	No	N (Global)	T.P.Neutral
depositValueEffectiveDate	No	Y (Global/Local)	T.P.Neutral
depositValueEndDate	No	Y (Global/Local)	T.P.Neutral
depth	No	N (Global)	T.P.Neutral
descriptionShort	No	N (Global)	T.P.Neutral
descriptiveSize	No	N (Global)	T.P.Neutral
descriptiveSizeDimension	No	N (Global)	T.P.Neutral
diameter	No	N (Global)	T.P.Neutral

Business Solution Design

Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
discontinuedDate	No	Y (Global/Local)	T.P.Neutral
drainedWeight	No	N (Global)	T.P.Neutral
eANUCCClassificationAttributeTypeCode	Yes	N (Global)	T.P.Neutral
eANUCCClassificationAttributeTypeDefinition	Yes	N (Global)	T.P.Neutral
eANUCCClassificationAttributeTypeName	Yes	N (Global)	T.P.Neutral
eANUCCClassificationAttributeValueCode	No	N (Global)	T.P.Neutral
eANUCCClassificationAttributeValueName	No	N (Global)	T.P.Neutral
eANUCCClassificationCategoryCode	No	N (Global)	T.P.Neutral
eANUCCClassificationCategoryDefinition	No	N (Global)	T.P.Neutral
eANUCCClassificationCategoryName	No	N (Global)	T.P.Neutral
effectiveDate	No	Y (Global/Local)	T.P.Neutral
effectiveEndDate	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
effectiveStartDate	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endAvailabilityDateTime	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endDateMaximumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
endDateMinimumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
endDateTimeOfExclusivity	No	Y (Global/Local)	T.P.Neutral
firstdeliverydatetime	No	Y (Global/Local)	T.P.Neutral
firstOrderDate	No	Y (Global/Local)	T.P.Neutral
firstShipDate	No	Y (Global/Local)	T.P.Neutral
flashPointTemperature	Yes	N (Global)	T.P.Neutral
functionalName	No	N (Global)	T.P.Neutral
genericIngredient	No	Y (Local)	T.P.Neutral
genericIngredientStrength	No	Y (Local)	T.P.Neutral
globalTradeItemNumber	No	N (Global)	T.P.Neutral
goodsPickUpLeadTime	No	Y (Global/Local)	T.P.Neutral
grossWeight	No	N (Global)	T.P.Neutral
handlingInstructionsCode	Yes	N (Global)	T.P.Neutral
hasBatchNumber	No	Y (Local)	T.P.Neutral
height	No	N (Global)	T.P.Neutral
importClassificationType	No	Y (Local)	T.P.Neutral
importClassificationValue	No	Y (Local)	T.P.Neutral
informationProvider	No	N (Global)	T.P.Neutral
ingredientStrength	No	Y (Global/Local)	T.P.Neutral
invoiceName	No	N (Global)	T.P.Neutral
isBarcodeOnThePackage	No	N (Global)	T.P.Neutral
isnetContentDeclarationIndicated	No	Y (Global/Local)	T.P.Neutral
isNonSoldTradeItemReturnable	No	Y (Global/Local)	T.P.Neutral
isPackagingMarkedReturnable	No	N (Global)	T.P.Neutral
isPackagingMarkedWithIngredients	No	Y (Local)	T.P.Neutral

Business Solution Design

Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
isTradelItemABaseUnit	No	N (Global)	T.P.Neutral
isTradelItemAConsumerUnit	No	N (Global)	T.P.Neutral
isTradelItemADispatchUnit	No	Y (Global/Local)	T.P.Dependent
isTradelItemAnInvoiceUnit	No	Y (Global/Local)	T.P.Dependent
isTradelItemAnOrderableUnit	No	Y (Global/Local)	T.P.Dependent
isTradelItemAVariableUnit	No	N (Global)	T.P.Neutral
isTradelItemInformationPrivate	No	N (Global)	T.P.Neutral
isTradelItemMarkedAsRecyclable	No	Y (Global/Local)	T.P.Neutral
isTradelItemReorderable	No	Y (Global/Local)	T.P.Neutral
isTradelItemSizedBasedPricing	No	Y (Global/Local)	T.P.Neutral
lastChangeDateTime	No	N (Global)	T.P.Neutral
lastOrderDate	No	Y (Global/Local)	T.P.Neutral
lastShipDate	No	Y (Global/Local)	T.P.Neutral
linktoexternaldescription	No	Y (Global/Local)	T.P.Neutral
manufacturer	Yes	N (Global)	T.P.Neutral
manufacturerPartNumber	Yes	Y (Global/Local)	T.P.Neutral
materialAgencyCode	No	N (Global)	T.P.Neutral
materialCode	No	N (Global)	T.P.Neutral
materialContent	No	N (Global)	T.P.Neutral
materialPercentage	No	N (Global)	T.P.Neutral
materialSafetyDataSheet	No	N (Global)	T.P.Neutral
materialSafetyDataSheetNumber	No	N (Global)	T.P.Neutral
materialWeight	No	N (Global)	T.P.Neutral
maximumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
minimumTradelItemLifespanFromTimeOfArrival	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
minimumTradelItemLifespanFromTimeOfProduction	No	Y (Global/Local)	T.P.Neutral
nameOfBrandOwner	No	N (Global)	T.P.Neutral
nameOfInformationProvider	No	N (Global)	T.P.Neutral
nameOfManufacturer	Yes	N (Global)	T.P.Neutral
netContent	No	N (Global)	T.P.Neutral
netWeight	No	N (Global)	T.P.Neutral
offerOnPack	No	N (Global)	T.P.Neutral
orderingLeadTime	No	Y (Global/Local)	T.P.Neutral
orderQuantityMaximum	No	Y (Global/Local)	T.P.Dependent
orderQuantityMinimum	No	Y (Global/Local)	T.P.Dependent
orderQuantityMultiple	No	Y (Global/Local)	T.P.Neutral
orderSizingFactor	No	Y (Global/Local)	T.P.Neutral
orderingUnitOfMeasure	No	Y (Global/Local)	T.P.Neutral
organicClaimAgency	Yes	Y (Global/Local)	T.P.Neutral
organicTradelItemCode	No	Y (Global/Local)	T.P.Neutral
packageMarksEnvironment	Yes	Y (Global/Local)	T.P.Neutral
packageMarksDietAllergen	Yes	Y (Global/Local)	T.P.Neutral

Business Solution Design

Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
packageMarksFreeFrom	Yes	Y (Global/Local)	T.P.Neutral
packageMarksEthical	Yes	Y (Global/Local)	T.P.Neutral
packagingMarkedExpirationDateType	Yes	Y (Global/Local)	T.P.Neutral
packagingMarkedRecyclableScheme	No	Y (Global/Local)	T.P.Neutral
packagingMaterialCodeListMaintenanceAgency	Yes	Y (Global/Local)	T.P.Neutral
packagingMaterialCompositionQuantity	Yes	Y (Global/Local)	T.P.Neutral
packagingMaterialDescription	Yes	Y (Global/Local)	T.P.Neutral
packagingTermsAndConditions	No	N (Global)	T.P.Neutral
packagingTypeCode	Yes	N (Global)	T.P.Neutral
packagingTypeDescription	Yes	N (Global)	T.P.Neutral
palletTermsAndConditions	No	Y (Global/Local)	T.P.Neutral
palletTypeCode	No	Y (Global/Local)	T.P.Neutral
partyReceivingPrivateData	Yes	N (Global)	T.P.Dependent
pegHoleNumber	Yes	N (Global)	T.P.Neutral
pegHorizontal	No	N (Global)	T.P.Neutral
pegVertical	No	N (Global)	T.P.Neutral
percentageOfAlcoholByVolume	No	N (Global)	T.P.Neutral
priceByMeasure Type	No	Y (Global/Local)	T.P.Neutral
priceComparisonContentType	No	Y (Global/Local)	T.P.Neutral
priceComparisonMeasurement	No	Y (Global/Local)	T.P.Neutral
priceOnPackIndicator	No	N (Global)	T.P.Neutral
productRange	No	N (Global)	T.P.Neutral
publicationDate	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
quantityOfChildren	No	N (Global)	T.P.Neutral
quantityOfCompleteLayersContainedInATradeItem	No	N (Global)	T.P.Neutral
quantityOfInnerPack	No	N (Global)	T.P.Neutral
quantityOfLayersPerPallet	No	N (Global)	T.P.Neutral
quantityOfNextLevelTradeItemWithinInnerPack	No	N (Global)	T.P.Neutral
quantityOfNextLowerLevelTradeItem	Yes	N (Global)	T.P.Neutral
quantityOfTradeItemsContainedInACompleteLayer	No	N (Global)	T.P.Neutral
quantityOfTradeItemsPerPallet	No	N (Global)	T.P.Neutral
quantityOfTradeItemsPerPalletLayer	No	N (Global)	T.P.Neutral
replacedTradeItemIdentification	No	Y (Global/Local)	T.P.Neutral
retailPriceOnTradeItem	No	N (Global)	T.P.Neutral
returnablePackageDepositCode	No	Y (Global/Local)	T.P.Neutral
returnablePackageDepositAmount	No	Y (Global/Local)	T.P.Neutral
seasonCalendarYear	Yes	N (Global)	T.P.Neutral

Business Solution Design

Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
seasonParameter	Yes	N (Global)	T.P.Neutral
seasonalAvailabilityEndDate	No	N (Global)	T.P.Neutral
seasonalAvailabilityStartDate	No	N (Global)	T.P.Neutral
seasonName	Yes	N (Global)	T.P.Neutral
securityTagLocation	No	N (Global)	T.P.Neutral
securityTagType	No	N (Global)	T.P.Neutral
sellingUnitOfMeasure	No	Y (Global/Local)	T.P.Neutral
sizeCodeListAgency	Yes	N (Global)	T.P.Neutral
sizeCodeValue	Yes	N (Global)	T.P.Neutral
sizeDimension	No	N (Global)	T.P.Neutral
sizeGroup	No	N (Global)	T.P.Neutral
sizeSystem	No	N (Global)	T.P.Neutral
sizeType	No	N (Global)	T.P.Neutral
specialItemCode	Yes	Y (Global/Local)	T.P.Neutral
stackingFactor	No	N (Global)	T.P.Neutral
stackingWeightMaximum	No	N (Global)	T.P.Neutral
startAvailabilityDateTime	No	Y (Global/Local)	T.P.Neutral & T.P.Dependent
startDateMinimumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
startDateMaximumBuyingQuantity	No	Y (Global/Local)	T.P.Neutral
storageHandlingHumidityMaximum	No	Y (Global/Local)	T.P.Neutral
storageHandlingHumidityMinimum	No	Y (Global/Local)	T.P.Neutral
storageHandlingTemperatureMaximum	No	N (Global)	T.P.Neutral
storageHandlingTemperatureMinimum	No	N (Global)	T.P.Neutral
subBrand	No	N (Global)	T.P.Neutral
suggestedRetailPrice	No	Y (Global/Local)	T.P.Neutral
targetConsumerAge	No	Y (Global/Local)	T.P.Neutral
targetConsumerGender	No	Y (Global/Local)	T.P.Neutral
targetMarketCountryCode	Yes	N (Global)	T.P.Neutral
targetMarketDescription	Yes	N (Global)	T.P.Neutral
targetMarketSubdivisionCode	Yes	N (Global)	T.P.Neutral
taxAgencyCode	No	Y (Global/Local)	T.P.Neutral
taxAmount	Yes	Y (Global/Local)	T.P.Neutral
taxRate	Yes	Y (Global/Local)	T.P.Neutral
taxTypeCode	No	Y (Global/Local)	T.P.Neutral
taxTypeDescription	No	Y (Global/Local)	T.P.Neutral
threadCount	No	N (Global)	T.P.Neutral
totalQuantityOfNextLowerLevelTradeItem	No	N (Global)	T.P.Neutral
tradeItemCompositionWidth	No	N (Global)	T.P.Neutral
tradeItemCountryOfAssembly	Yes	N (Global)	T.P.Neutral
tradeItemDescription	No	N (Global)	T.P.Neutral
tradeItemFeatureBenefit	Yes	N (Global)	T.P.Neutral
tradeItemFinishDescription	No	N (Global)	T.P.Neutral
tradeItemFormDescription	Yes	N (Global)	T.P.Neutral

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Resolved Item Name	Multiple Values Allowed	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral+F53) OR Both
tradeItemGroupIdentificationCode	No	N (Global)	T.P.Neutral
tradeItemGroupIdentificationDescription	Yes	N (Global)	T.P.Neutral
tradeItemIdentificationOfNextLowerLevelTradeItem	Yes	N (Global)	T.P.Neutral
tradeItemMarketingMessage	No	Y (Global/Local)	T.P.Neutral
tradeItemUnitDescriptor	No	N (Global)	T.P.Neutral
type	No	N (Global)	T.P.Neutral
unitedNationsDangerousGoodsNumber	Yes	N (Global)	T.P.Neutral
value	No	N (Global)	T.P.Neutral
variant	Yes	N (Global)	T.P.Neutral
variableTradeItemType	No	Y (Global/Local)	T.P.Neutral
width	No	N (Global)	T.P.Neutral

1.9.2 APPENDIX B Attribute Association by Trade Item Hierarchy Level for Data Synchronization

1 Attribute Association by Trade Item Hierarchy Level for Data Sync												
Resolved Item Name	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
isTradeItemABaseUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAConsumerUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemADespatchUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAnOrderableUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAnInvoiceUnit	M	N	M	N	M	N	M	N	M	N	M	N
orderQuantityMultiple											O	N
orderQuantityMinimum	O	N	O	N	O	N	O	N	O	N	O	N
orderQuantityMaximum	O	N	O	N	O	N	O	N	O	N	O	N
orderSizingFactor	O	N	O	N	O	N	O	N	O	N	O	N
nameOfInformation Provider	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
totalQuantityOfNextLower-LevelTradeItem	M	N	M	N	M		M	N	M	N		
brandOwner	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
nameOfBrandOwner	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
partyReceivingPrivateData	D	Y	D	Y	D	Y	D	Y	D	Y	D	Y
manufacturer	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
nameOfManufacturer	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
netContent											D	N
isNetContentDeclarationIndicated											O	N
height	M	N	M	N	M	N	M	N	M	N	M	N
width	M	N	M	N	M	N	M	N	M	N	M	N
depth	M	N	M	N	M	N	M	N	M	N	M	N
grossWeight	D	N	D	N	D	N	D	N	D	N	D	N
netWeight	O	N	O	N	O	N	O	N	O	N		
diameter											O	N
drainedWeight											O	N
effectiveDate	M	N	M	N	M	N	M	N	M	N	M	N
lastChangeDateTime	M	N	M	N	M	N	M	N	M	N	M	N
publicationDate	M	N	M	N	M	N	M	N	M	N	M	N
startAvailabilityDateTime	M	N	M	N	M	N	M	N	M	N	M	N
endAvailabilityDateTime	O	N	O	N	O	N	O	N	O	N	O	N
consumerAvailabilityDateTime											O	N
discontinuedDate	O	N	O	N	O	N	O	N	O	N	O	N
canceledDate	O	N	O	N	O	N	O	N	O	N	O	N
dangerousGoodsIndicator	M	N	M	N	M	N	M	N	M	N	M	N

Business Solution Design

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
dangerousGoodsRegulationCode	D	N	D	N	D	N	D	N	D	N	D	N
unitedNationsDangerous-GoodsNumber	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsShippingName	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsTechnicalName	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsPackingGroup	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsHazardousCode	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsAMarginNumber	D	N	D	N	D	N	D	N	D	N	D	N
flashPointTemperature											D	N
stackingWeightMaximum	O	N	O	N	O	N	O	N	O	N	O	N
storageHandlingTemperatureMaximum	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
storageHandlingTemperatureMinimum	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
handlingInstructionsCode											O	N
deliveryToMarketTemperature-Maximum											O	N
deliveryToMarketTemperatureMinimum											O	N
deliveryToDistributionCenterTemperatureMaximum											O	N
deliveryToDistributionCenterTemperatureMinimum											O	N
orderingLeadTime											O	N
palletTypeCode			O	N								
quantityOfTradelItemsPerPallet	O	N	O	N	O	N	O	N	O	N	O	N
quantityOfLayersPerPallet	O	N	O	N	O	N	O	N	O	N	O	N
quantityOfTradelItemsPerPallet-Layer	O	N	O	N	O	N	O	N	O	N	O	N
palletTermsAndConditions			O	N								
tradelItemUnitDescriptor	M	N	M	N	M	N	M	N	M	N	M	N
invoiceName	O	N	O	N	O	N	O	N	O	N	O	N
tradelItemFormDescription											O	N
productRange											O	N
subBrand											O	Y
functionalName	M	Y	M	Y	M	Y	M	Y	M	Y	M	Y
descriptiveSize	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
variant											O	N
colorCodeValue											O	N
colorDescription											O	N
colorCodeListAgency											O	N

Business Solution Design

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
isTradelItemInformationPrivate	M	Y	M	Y	M	Y	M	Y	M	Y	M	Y
priceOnPackIndicator											M	N
suggestedRetailPrice											O	N
retailPriceOnTradelItem											O	N
couponFamilyCode											O	N
genericIngredient											O	N
genericIngredientStrength											O	N
hasBatchNumber											O	N
isTradelItemGeneticallyModified											O	N
isTradelItemIrradiated											O	N
organicTradelItemCode											O	N
organicClaimAgency											O	N
isTradelItemAVariableUnit	M	N	M	N	M	N	M	N	M	N	M	N
percentageOfAlcoholByVolume											O	N
fatPercentageInDryMatter											O	N
degreeOfOriginalWort	O	N	O	N	O	N	O	N	O	N	O	N
isBarcodeOnThePackage	M	N	M	N	M	N	M	N	M	N	M	N
isPackagingMarkedReturnable	M	N	M	N	M	N	M	N	M	N	M	N
minimumTradelItemLifespanFrom-TimeOfArrival											O	N
countryOfOrigin											O	N
isTradelItemMarkedAsRecyclable											O	N
isNonSoldTradelItemReturnable											O	N
taxTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
taxTypeDescription	O	N	O	N	O	N	O	N	O	N	O	N
taxRate	O	N	O	N	O	N	O	N	O	N	O	N
taxAmount	O	N	O	N	O	N	O	N	O	N	O	N
taxAgencyCode	O	N	O	N	O	N	O	N	O	N	O	N
targetMarketCountryCode	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
targetMarketSubdivisionCode	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
targetMarketDescription	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
ingredientStrength											O	N
sizeCodeValue											O	N
sizeCodeListAgency											O	N
cataloguePrice	O	N	O	N	O	N	O	N	O	N	O	N
effectiveStartDate	D	N	D	N	D	N	D	N	D	N	D	N
effectiveEndDate	O	N	O	N	O	N	O	N	O	N	O	N
packagingTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
packagingTypeDescription	O	N	O	N	O	N	O	N	O	N	O	N
pegHorizontal											O	N

Business Solution Design

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
pegVertical											O	N
quantityOfInnerPack	O	N	O	N	O	N	O	N	O	N	O	N
quantityOfNextLevelTradeItem-WithinInnerPack	O	N	O	N	O	N	O	N	O	N	O	N
isPackagingMarkedWithGreenDot											O	N
packagingMaterialCode	O	N	O	N	O	N	O	N	O	N	O	N
packagingMaterialDescription	D	N	D	N	D	N	D	N	D	N	D	N
packagingMaterialComposition-Quantity	D	N	D	N	D	N	D	N	D	N	D	N
isPackagingMarkedWithIngredients											O	N
quantityOfCompleteLayersContainedInATradeItem		N	O	N	O	N	O	N	O	N		
quantityOfTradeItemsContainedInACompleteLayer	O	N	O	N	O	N	O	N	O	N		
packagingMaterialCodeListMaintenanceAgency	D	A	D	A	D	A	D	A	D	A	D	A
packagingMarkedRecyclableScheme	M	N	M	N	M	N	M	N	M	N	M	N
materialSafetyDataSheet	M	N	M	N	M	N	M	N	M	N	M	N
materialSafetyDataSheetNumber	O	N	O	N	O	N	O	N	O	N	O	N
descriptionShort											O	N
brandName											M	N
tradeItemDescription	M	Y	M	Y	M	Y	M	Y	M	Y	M	Y
informationProvider	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
globalTradeItemNumber	O	N	O	N	O	N	O	N	O	N	O	N
classificationCategoryCode											O	N
classificationCategoryName											O	N
classificationCategoryDefinition											O	N
eANUCCClassificationAttributeTypeCode											O	N
eANUCCClassificationAttributeTypeName											O	N
eANUCCClassificationAttributeTypeDefinition											O	N
eANUCCClassificationAttributeValueCode											O	N
eANUCCClassificationAttributeValueName											O	N
additionalClassificationCategoryCode											O	N
additionalClassificationCategoryDescription											O	N

Business Solution Design

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
additionalClassificationAgencyName											D	N
nextLowerLevelGtin	M	N	M	N	M	N	M	N	M	N	M	N
quantityOfNextLowerLevelTradeItem	M	N	M	N	M	N	M	N	M	N	M	N
quantityOfChildren	M	N	M	N	M	N	M	N	M	N		
alternateTradeItemIdentification	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemGroupIdentificationCode											O	N
tradeItemGroupIdentificationDescription											D	N
replacedTradeItemIdentification	O	N	O	N	O	N	O	N	O	N	O	N
ISBN_NUMBER											O	N
ISSN_NUMBER												
classOfDangerousGoods	D	N	D	N	D	N	D	N	D	N	D	N
packagingTermsAndConditions	O	N	O	N	O		O	N	O	N	O	N
barCodeType	O	N	O	N	O		O	N	O	N	O	N
additionalTradeItemDescription	O	N	O	N	O		O	N	O	N	O	N
stackingFactor	O	N	O	N	O		O	N	O	N	O	N

1.9.3 Appendix E: Trade Item Implementation Feedback

Based on the Trade Item Implementation feedback presentation on July 7, 2004, the following modifications will be made to the Trade Item.

Deletion of attributes:

Delete	Class	Attribute	Model Location	Note
1	TradeItemPriceDateInformation	effectiveStartDate	Trading Partner Neutral Trade Item Information (TPNTII) appendix 4	
2	TradeItemPriceDateInformation	effectiveEndDate	(TPNTII) appendix 4	
3	PackagingMarking	isBarcodeOnThePackage	Does not exist in model.	The textual business requirement lines (1506-1531) will be removed from the BRD. No change needed to model as this attribute does not exist in the model.
4	PackagingMarking	isPackagingMarkedAsRecyclable	(TPNTII) appendix 4	
5	BrandOwnerOfTradeItem	nameOfBrandOwner	(TPNTII) appendix 4	
6	InformationProvider	nameOfInformationProvider	Trade Item Information appendix 3	
7	ManufacturerOfTradeItem	nameOfManufacturer	(TPNTII) appendix 4	
8	PackagingMaterial	packagingMaterialDescription	(TPNTII) appendix 4	
9	PackagingType	packagingTypeDescription	(TPNTII) appendix 4	
10	TradeItemPalletInformation	palletTermsAndConditions	(TPNTII) appendix 4	
11	TradeItemPalletInformation	palletTypeCode	(TPNTII) appendix 4	
12	TargetMarketInformation	targetMarketDescription	Trade Item Information appendix 3	
13	NextLowerLevelTradeItemInformation	totalQuantityOfNextLowerLevelTradeItem	Trade Item appendix 1	
14	TradeItemDescriptionInformation	tradeItemDescription	Trade Item Information appendix 3	
15	PriceOnTradeItem	priceOnPackIndicator	Does not exist in model.	The textual business requirement lines (1826-1851) will be removed from the BRD. No change needed to model as this attribute does not exist in the model.

Attributes that will be handled with the Hierarchy Proposal:

These four attributes are in the Trade Item appendix 1 class diagram.

- Quantity of layers per pallet
- Quantity of children
- Quantity of trade items per pallet
- Quantity of trade items per pallet layers

Attributes recommended to change from Mandatory or Dependent to Optional

Change	Class	Attribute	Model Location	Note
1	ClassificationCategory	additionalClassificationCategoryDescription	Trade Item Classification appendix 6	
2	TradeItemCountryOfOrigin	countryOfOrigin	(TPNTII) appendix 4 and 5	The Trade Item Country of Origin is optional, if the class is used, then the country of Origin is mandatory.
3	TradeItemHazardousInformation	flashPointTemperature	(TPNTII) appendix 4 and Trade Item Common appendix 17	
4	PriceOnTradeItem	retailPriceOnTradeItem	(TPNTII) appendix 4 and 5	The Price On Trade Item class is optional, if the class is used, then the retail price on trade item is mandatory.

Conversion of Mandatory Boolean attributes into code list solution.

- isIngredientIrradiated
- isRawMaterialIrradiated
- isTradeItemIrradiated
- isTradeItemGeneticallyModified

The Boolean attribute should be replaced by a code list. Below is the current model for the FMCGTradeItemMarking class and revised solution.

FMCGTradeItemMarking
isIngredientIrradiated : Boolean isRawMaterialIrradiated : Boolean isTradeItemGeneticallyModified : Boolean isTradeItemIrradiated : Boolean

CodeList Solution

FMCGTradeItemMarking_Revised
ingredientIrradiated[0..1] : AnswerList rawMaterialIrradiated[0..1] : AnswerList tradeItemGeneticallyModified[0..1] : AnswerList tradeItemIrradiated[0..1] : AnswerList

<<enumeration>> AnswerList
FALSE TRUE UNSPECIFIED

Business Solution Design

1.10 Summary of Changes

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

Change	BMS Ver- sion	Associated CR Number
•		

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.

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

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