

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		

Business Solution Design

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>															

Business Solution Design

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	nameOfBrandOwner			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
BrandOwnerOfTradeItem		brandOwner	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
ManufacturerOfTradeItem	nameOfManufacturer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
ManufacturerOfTradeItem		manufacturer	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
MaterialSafetyData	materialSafety-DataSheetNumber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
NextLowerLevelTradeItemInformation	quantityOfChildren			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
NextLowerLevelTradeItemInformation	totalQuantity-OfNextLower-LevelTradeItem			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
NextLowerLevelTradeItemInformation		None	ChildTradeItem	BRD Data Synchronization Data Model for Trade Item (Data

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				Definition) V. 7.3
OrganicTradeItemCharacteristics	organicClaimAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
OrganicTradeItemCharacteristics	organicTradeItem-Code			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMarking	isPackagingMarkedReturnable			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMarking	isPackagingMarkedWithIngredients			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMarking	offerOnPack			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMarking	isPackagingMarkedWithExpiration-Date			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.4
PackagingMarking	packagingMarkedRecyclableScheme			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMaterial	packagingMaterial-Code			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMaterial	packagingMaterial-CodeListMaintenanceAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMaterial	packagingTermsAndConditions			BRD Data Synchronization Data Model for Trade Item (Data

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				Definition) V. 7.3
PackagingMaterial		packagingMaterialCompositionQuantity	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingMaterial		packagingMaterialDescription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingType	packagingTypeCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PackagingType	packagingTypeDescription			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PriceOnTradeItem	retailPriceOnTradeItem			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
PrivateInformation		partyReceivingPrivateData	PartyIdentification	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TargetMarketInformation	targetMarketCountryCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TargetMarketInformation	targetMarketDescription			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TargetMarketInformation	targetMarketSubdivisionCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3

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TradeItem	tradeItemUnitDe- scriptor			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemColorDescription	colorCodeValue			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemColorDescription	colourCode- ListAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemColorDescription		colorDescription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemCoupon	couponFamilyCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	effectiveDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	lastChangeDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	publicationDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	startAvailabilityDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	canceledDate			BRD Data Synchronization Data Model for Trade Item (Data

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				Definition) V. 7.3
TradeItemDateInformation	consumerAvailabilityDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	discontinuedDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDateInformation	endAvailabilityDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription	brandName			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription	productRange			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription	subBrand			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription	tradeItemFormDescription			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription	tradeItem-GroupIdentification-Code			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		tradeItemDescription	LongTextDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		additionalTradeItemDescription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		descriptionShort	MultiDescription	BRD Data Synchronization Data

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				Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		functionalName	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		invoiceName	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		tradeItemGroupIdentificationDescription	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemDescription		variant	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHandlingInformation	minimumTradeItemLifespanFromTimeOfArrival			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
	stackingFactor			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHandlingInformation		stackingWeightMaximum	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHandlingInformation		handlingInstructionsCode	MultiDescription	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHazardousInformation	classOfDangerousGoods			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHazardousInformation	dangerousGoodsAMarginNumber			BRD Data Synchronization Data Model for Trade Item (Data

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				Definition) V. 7.3
TradeltemHazardousInformation	dangerousGood- sHazardousCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation	dangerous- GoodsPacking- Group			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation	dangerousGoods- RegulationCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation	dangerous- GoodsShipping- Name			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation	unitedNationsDan- gerousGoodsNum- ber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation		dangerousGoodsTechni- calName	LongTextDescrip- tion	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHazardousInformation		flashPointTemperature	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHierarchy	quantityOfCom- pleteLayersContain- edInATradeltem			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
	quantityOfInnerPack			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHierarchy	quantityOfLayer- sPerPallet			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeltemHierarchy	quantityOfNex-			BRD Data Synchronization Data

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	LevelTradeItem- WithinInnerPack			Model for Trade Item (Data Definition) V. 7.3
TradeItemHierarchy	quantityOfTrade- ItemsContainedInA- CompleteLayer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHierarchy	quantityOfTrade- ItemsPerPallet			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHierarchy	quantityOfTrade- ItemsPerPalletLayer			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemHierarchy		extendedAttributes	Transaction- allItemData	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMarking	hasBatchNumber			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMarking	isNonSoldTrade- ItemReturnable			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMarking	isTradeItemMarke- dAsRecyclable			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements	genericIngredient			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements	ingredientStrength			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements	isNetContentDe-			BRD Data Synchronization Data

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	clarationIndicated			Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		depth	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		diameter	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		drainedWeight	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		genericIngredientStrength	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		grossWeight	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		Height	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		netContent	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		netWeight	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		width	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		pegHorizontal	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemMeasurements		pegVertical	MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data

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				Definition) V. 7.3
TradeItemOrderInformation	agreedMaximumOrderingQuantity			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemOrderInformation	agreedMaximumOrderingQuantity			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemOrderInformation	orderQuantityMultiple			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemOrderInformation	orderingLeadTime		MultiMeasurement	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemOrderInformation	orderingSizeFactor		MultiMeasurement	
TradeItemPalletInformation	palletTermsAndConditions			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemPalletInformation	palletTypeCode			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemPriceDateInformation	effectiveEndDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemPriceDateInformation	effectiveStartDate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemPriceDateInformation	value			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3

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TradeItemSizeDescription	descriptiveSize			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemSizeDescription	sizeCodeListAgency			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemSizeDescription	sizeCodeValue			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxAmount	taxAmount			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxAmount		None	TaxAgency	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxInformation		None	TradeItemTax-Amount	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxInformation		None	TradeItem-TaxRate	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxRate	taxRate			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTaxRate		None	TaxAgency	BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTemperatureInformation	deliveryToDistributionCenterTempera-			BRD Data Synchronization Data Model for Trade Item (Data

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	tureMaximum			Definition) V. 7.3
TradeItemTemperatureInformation	deliveryToMarket-TemperatureMaximum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTemperatureInformation	storageHandling-TemperatureMaximum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTemperatureInformation	deliveryToDistributionCenterTemperatureMinimum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTemperatureInformation	deliveryToMarket-TemperatureMinimum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemTemperatureInformation	storageHandling-TemperatureMinimum			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemABaseUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemAConsumerUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemADespatchUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemAnInvoiceUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemAnOrderableUnit			BRD Data Synchronization Data Model for Trade Item (Data Definition) V. 7.3
TradeItemUnitIndicator	isTradeItemAVari-			BRD Data Synchronization Data

Business Solution Design

	ableUnit			Model for Trade Item (Data Definition) V. 7.3
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Business Solution Design

1.5.2 GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
BrandOwnerOf-TradeItem				Brand Owner_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	nameOf-BrandOwner			Brand Owner_ Party. Name. Text	Name of the party who owns the brand of the trade item. Mandatory when brandOwner Party identification is provided.	1..1
		brandOwner	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
CatalogueItem-Classification				GPC_ Product Classification. Details	n.a.	
	classification-CategoryCode			GPC_ Product Classification. Class. Identifier		1..1
ChildTradeItem				Child_ Trade Item. Details	n.a.	
	quantity-ofNextLower-LevelTradeItem			Child_ Trade Item. Quantity. Quantity	!! The number of next lower level trade item that this trade item contains.	1..1
		None	TradeItemIdentification	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
CatalogueItem-Classification				GPC_ Product Classification. Details	n.a.	
Document				Electronic_ Document.	Used to specify basic information about	

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Details	the content of the message including version number, creation date and time.	
	contentVersion			Electronic_ Document. Content_ Version. Identifier	Not defined in BRD	0..1
	creationDate			Electronic_ Document. Creation_ Date. Date Time	Not defined in BRD	1..1
	documentStatus			Electronic_ Document. Status. Identifier	Indicates if the document is a copy or an original.	1..1
	documentStructureVersion			Electronic_ Document. Document Structure_ Version. Identifier	Not defined in BRD	0..1
	lastUpdateDate			Electronic_ Document. Last Update_ Date. Date Time	Not defined in BRD	0..1
EANUCCTrade-ItemClassification				GPC_ Product Classification Attribute. Details	Not Defined in BRD	
	eANUCCClassificationAttributeTypeCode			GPC_ Product Classification Attribute. Type. Identifier	Unique 8 digit code which identifies the Global EAN.UCC classification attribute.	1..1
	eANUCCClassificationAttributeTypeDefinition			GPC_ Product Classification Attribute. Type Definition. Text	System generated explanation of Global EAN.UCC attribute.	0..1
	eANUCCClassificationAttributeTypeName			GPC_ Product Classification Attribute. Type Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute code	1..1
		None	EANUCCTrade-	GPC_ Product Classifica-	None	1..1

Business Solution Design

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

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		contentOwner	PartyIdentification	Entity Identification. Content Owner. Party Identification	None	1..1
ManufacturerOf-TradeItem				Manufacturer_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class	
	nameOfManufacturer			Manufacturer_ Party. Name. Text	Descriptive name of the manufacturer of the trade item.	1..1
		manufacturer	PartyIdentification	Manufacturer_ Party. Association. Party Identification	None	1..1
MaterialSafety-Data				Material Safety Data Sheet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	materialSafety-DataSheetNumber			Material Safety Data Sheet. Identification. Identifier	!! Manufacturer's identification number for the material safety data sheet for a trade item. This attribute is mandatory if the Material Safety Data Sheet attribute is "Y".	1..1
NextLower-LevelTrade-ItemInformation				Next Lower Level_ Trade Item Containment. Details	!! This class originates in the root class TradeItem	
	quantityOfChildren			Next Lower Level_ Trade Item Containment. Number Of Children_ Quantity. Quantity	Value indicates the number of unique next lower level trade items contained in a complex trade item. A complex trade item can contain at least 2 different GTINs.	1..1
	totalQuantity-OfNextLower-			Next Lower Level_ Trade Item Containment. Total_	This represents the Total quantity of next lower level trade items that this trade	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	LevelTradeItem			Quantity. Quantity	item contains.	
		None	ChildTradeItem	Next Lower Level_ Trade Item Containment. Association. Child_ Trade Item	None	1..*
OrganicTrade-ItemCharacteristics				Organic_ Trade Item. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	organicClaimAgency			Organic_ Trade Item. Claim_ Agency Name. Text	A Governing body that creates and maintains standards related to organic products.	1..1
	organicTrade-ItemCode			Organic_ Trade Item. Class. Identifier	!! Used to indicate the organic status of a trade item or of one or more of its components.	1..*
PackagingMarking				Trade Item_ Packaging Marking. Details	N.A	
	isPackaging-MarkedWithExpirationDate			Packaging Marking. Expiration Date_ Marking. Indicator	Indicates if the packaging of the trade item has a freshness date, sell by date, or use by date stamped on or imprinted. This is a y/n (Boolean) where y equals packaging of the trade item has a freshness date stamped on or imprinted.	
	isPackaging-MarkedReturnable			Trade Item_ Packaging Marking. Returnable_ Marking. Indicator	Trade item has returnable packaging.	1..1
	isPackaging-MarkedWithIngredients			Trade Item_ Packaging Marking. Ingredients_ Marking. Indicator	Trade item packaging contains information pertaining to its ingredients. trade item ingredients are required to be shown on the trade item (normally at base trade item level). This is a yes/no (Boolean) where yes equals marked with	0..1

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					Ingredients.	
	offerOnPack			Trade Item_ Packaging Marking. offerOnPack. Text	Contains details of any on pack product offer (consumer or traded).	0..1
	packagingMarkedRecyclableScheme			Trade Item_ Packaging Marking. Marked Recyclable Scheme_ Description. Text	The package of this GTIN is marked to indicate under which scheme it is recyclable. Applies to recyclable packaging with or without deposit. Examples: Aluminum can be marked as recyclable.	0..1
PackagingMaterial				Packaging Material. Details	n.a.	
	packagingMaterialCode			Packaging Material. Type. Code	Currently a European Union table of code lists exists for this requirement. The code list required to identify the packaging material of the trade item. Examples: "GL" (glass) "AL" (Aluminum).	1..1
	packagingMaterialCodeListMaintenanceAgency			Packaging Material. Code List Maintenance Agency. Text	The agency or agencies controlling the packaging code lists of each country.	1..1
	packagingTermsAndConditions			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
		packagingMaterialCompositionQuantity	MultiMeasureValue	Packaging Material. Packaging Material_ Composition Quantity. Multi-unit Measure	The quantity of the packaging of the trade item. Can be weight, volume or surface, can vary by country.	1..1
		packagingMaterialDescription	MultiDescription	Packaging Material. Packaging Material_ Description. Multi-language Description	The system generated text description equivalent of the packaging material code.	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
PackagingType				Packaging.Details	n.a.	
	packagingType-Code			Packaging. Type. Packaging Type_ Code	The code identifying the type of package used as a container of the trade item.	1..1
	packaging-TypeDescription			Packaging. Description. Text	System generated text description of the type of packaging used for the trade item.	1..1
PriceOnTradeItem				Price_ Packaging Marking. Details	n.a.	
	retailPriceOn-TradeItem			Price_ Packaging Marking. Retail_ Price. Amount	The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field priceOnPackIndicator	1..1
PrivateInformation				Private Data Recipient_ Party. Details	n.a.	
		partyReceiving-PrivateData	PartyIdentification	Private Data Recipient_ Party. Association. Party Identification	n.a.	
TargetMarketInformation				Named_ Target Market. Details	!! This is a reusable class from Trade Item Common and referenced as part of the Trade Item Information class.	
	targetMarket-CountryCode			Named_ Target Market. Country. ISO3166_1_ Code	The target market code indicates the country level or higher geographical definition in which the information provider will make the GTIN available to buyers. This Indicator does not in any way govern where the buyer may re-sell the GTIN to consumers.	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	targetMarketDescription			Named_ Target Market. Description. Language_ Text	The name for the specific target market identified with the Target Market Country Code . Target market description is composed of both text and a language code. The description will be generated from the ISO 3166-1 code list. The language code will be generated from the ISO 639 code list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	1..1
	targetMarketSubdivisionCode			Named_ Target Market. Subdivision. ISO3166_2_ Code	The Target Market Subdivision Code is the secondary code of the Target Market and must be a subdivision of a Target Market Country Code. The Target Market Subdivision Code describes the "geopolitical 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

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
TradeItemDocument				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
		tradeItemDocumentIdentification	EntityIdentification	Trade Item Alignment. Association. Entity Identification	!! This is a role from the TradeItemDocument root class. The destination class is EntityIdentification.	1..1
TradeItem				Trade Item. Details	!! Trade Item is the root class within the TradeItemDocument.	
	tradeItemUnitDescriptor			Trade Item. Unit Descriptor. Unit Descriptor_ Code	n.a.	1..1
		None	NextLowerLevelTradeItemInformation	Trade Item. Association. Next Lower Level_ Trade Item Containment	n.a.	0..1
		None	TradeItemHandlingInformation	Trade Item. Association. Trade Item Handling	None	0..1
		None	TradeItemIdentification	Trade Item. Association. Trade Item Identification	None	1..1
		replacedTradeItemIdentification	TradeItemIdentification	Trade Item. Replaced. Trade Item Identification	!! This is a role from the Trade Item Class.	0..1
		None	TradeItemInformation	Trade Item. Association. Trade Item Information Group	None	1..1
TradeItemColorDescription				Trade Item Colour. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	colorCodeValue			Trade Item Colour. Code. Colour_ Code	The code list required to identify the color of the trade item. No ISO standards	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					exist. Each industry needs to determine which code agency is will use.	
	colourCode-ListAgency			Trade Item Colour. Colour Code_ Agency. Text		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 Sectionn 4.4 of the Implementation Considerations and Concerns for more details. Sector specific extension.The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-70, as defined in the Trade Item BRD.	1..1
TradeItemCoupon				Trade Item Coupon. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	couponFamily-Code			Trade Item Coupon. Family. Bilateral_ Code	A code assigned by the vendor to a single trade item or to families of consumer trade items that can be used by in store scanners in conjunction with a U.P.C. coupon value code for coupon value discount when the proper trade item has been purchased.	1..1
TradeItem-DateInformation				Trade Item Date Group. Details	n.a.	
	effectiveDate			Trade Item Date Group. Effective_ Date.	The date on which the information contents of the master data version are	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				CCYYMMDD_ Date Time	valid. Valid = correct or true. This effective date can be used for initial trade item offering or to mark a change in the information related to an existing trade item. This date would mark when these changes take effect. ISO 8601 date format CCYY-MM-DD. Examples: "2002-02-05" February 5th 2002. Effective Date is mandatory.	
	lastChange-DateTime			Trade Item Date Group. Last Change_ Date. CCYYMMDD hhmm_ Date Time	A system generated value identifying the date and time a record was last updated. DateTime format ISO 8601 - CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" = February 5th 2002 5:00:00pm.	1..1
	publicationDate			Trade Item Date Group. Publication_ Date. CCYYMMDD_ Date Time	A date on which all static data associated with the trade item becomes available for viewing. Date format is defined in ISO8601 –CCYY-MM-DD. Examples: "2002-02-05" February 5th 2002.	1..1
	startAvailability-DateTime			Trade Item Date Group. Start Availability_ Date. CCYYMMDD hhmm_ Date Time	The date from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services. DateTime format is ISO8601 – CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	1..1
	canceledDate			Trade Item Date Group. Cancelled_ Date. CCYYMMDD_ Date Time	Communicates cancelation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation. Use ISO 8601 date format	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					CCYY-MM-DD.	
	consumerAvailabilityDateTime			Trade Item Date Group. Consumer Availability_ Date. CCYYMMDD hhmm_ Date Time	The first date/time that the buyer is allowed to sell the trade item to consumers. Usually related to a specific geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS. ISO 8601 datetime format CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	0..1
	discontinuedDate			Trade Item Date Group. Discontinued_ Date. CCYYMMDD_ Date Time	Communicate the date on which the trade item is no longer to be manufactured. Allows the reuse of the GTIN after 48 months with the explicit exception of Apparel, being 30 months and the implicit exception for specialty products (e.g., steel beams). ISO 8601 date format CCYY-MM-DD.	0..1
	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. Datetime format is CCYY-MM-DDTHH:MM:SS. Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm.	0..1
TradeItemDescription				Trade Item Description. Details	None	
	brandName			Trade Item Description. Brand. Text	The recognizable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer. Brands are more likely to	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					be language independent.	
	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-GroupIdentificationCode			Trade Item Description. Group. Identifier	A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.	0..1
		tradeItemDescription	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.	1..1
		additionalTradeItemDescription	MultiLongDescription	Trade Item Description. Additional_ Trade Item_ Description. Multi-language Description	The description of a product or service.	0..1
		descriptionShort	MultiLongDescription	Trade Item Description. Short_ Description. Multi-	A free form short length description of the trade item that can be used to iden-	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				language Description	Identify the trade item at point of sale.	
		functionalName	MultiLongDescription	Trade Item Description. Functional_ Name. Multi-language Description	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN. Examples: drill, salad dressing, soup, beer.	1..1
		invoiceName	MultiLongDescription	Trade Item Description. Invoice_ Name. Multi-language Description	Free form information provider assigned trade item description designed to match trade item/service description as noted on invoices.	0..1
		tradeItem-GroupIdentificationDescription	MultiLongDescription	Trade Item Description. Trade Item_Group Identification_ Description. Multi-language Description	The text description of the value represented by the trade itemGroupIDCode. Example: "501 Blue Jeans", represent all sizes and colours of this trade item. If trade itemGroupIDCode is present, this field must be present.	0..*
		variant	MultiLongDescription	Trade Item Description. Variant. Multi-language Description	Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste. Examples: Examples: Banana, Strawberry, Lemon Scented.	0..*
TradeItemHandlingInformation				Trade Item Handling. Details	n.a.	
	minimumTradeItemLifespan-FromTimeOfArrival			Trade Item Handling. Minimum From Arrival Time_Trade Item_ Lifespan. 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. . Must be expressed in number of days.	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	stackingFactor			Trade Item Handling. Stacking_ Factor. Numeric	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked. Example: Factor of "2" = trade item is stackable 2 high. The counting of the levels will always commence at 1 not 0.	0..1
		stackingWeight-Maximum	MultiMeasure-mentValue	Trade Item Handling. Maximum Stacking_ Weight. Multi-unit Measure	The maximum admissible weight that can be stacked on the trade item. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other. Used in conjunction with unit of measure.	0..1
		handlingInstructionsCode	MultiDescription	Trade Item Handling. 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.	0..1
TradeItemHazardousInformation				Hazardous Goods. Details	!! This reusable class is part of the Trading Partner Neutral Trade Item Information Class.	
	classOfDangerousGoods			Hazardous Goods. Class. Identifier	!! Dangerous goods classification of the trade item. There are 9 danger classes, some classes are further subdivided into subclasses. "Class" number explains in general terms the nature and properties of the goods and serves to classify them together in terms of their most significant risk.	1..1
	dangerousGoodsAMarginNumber			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	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					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.	
	dangerousGoodsHazardousCode			Hazardous Goods. Hazard. Identifier	Dangerous goods hazard ID number, which must be applied to the vehicle, when transporting this trade item (dangerous good) by road or rail, to inform the police, the fire brigade and others in case of an accident about the kind of danger caused by the cargo.	1..1
	dangerous-GoodsPacking-Group			Hazardous Goods. Packing Group. Identifier	!! Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.	1..1
	dangerous-GoodsRegulationCode			Hazardous Goods. Regulation. Identifier	!! Code indicating the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.	1..1
	dangerous-GoodsShipping-Name			Hazardous Goods. Shipping_ Name. Text	Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.	1..1
	unitedNations-Dangerous-GoodsNumber			Hazardous Goods. United Nations_ Class. Identifier	The four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to classify a substance or a particular groups of substances. Abbreviation: UNDG Number.	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		dangerousGoodsTechnicalName	MultiLongDescription	Hazardous Goods. Technical_ Name. Long_ Multi-language Description	Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 list. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-200, as defined in the Trade Item BRD.	1..1
		flashPointTemperature	MultiMeasureValue	Hazardous Goods. Flash Point_ Temperature. Multi-unit Measure	The lowest temperature at which a substance gives off a sufficient vapor to support combustion. This uses a measurement consisting of a unit of measure and value.	1..1
TradeItemHierarchy				Trade Item Containment. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	quantityOfCompleteLayersContainedInATradeItem			Trade Item Containment. Complete Layers_ Quantity. Quantity	The number of layers of the base trade item found in a trade item. Does not apply to the base trade item unit.	0..1
	quantityOfInnerPack			Trade Item Containment. Number Of Inner Packs_ Quantity. Quantity	Indicates the number of non-coded physical groupings (innerpacks) of next lower level trade items within the current GTIN level.	0..1
	quantityOfLayersPerPallet			Trade Item Containment. Layers Per Pallet_ Quantity. Quantity	The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to sup-	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					plier or retailer preferences.	
	quantityOfNextLevelTradeItemWithinInnerPack			Trade Item Containment. Items Per Inner Pack_ Quantity. Quantity	Indicates the number of next lower level trade items contained within the physical non-coded grouping (innerpack).	0..1
	quantityOfTradeItemsContainedInACompleteLayer			Trade Item Containment. Items Per Complete Layer_ Quantity. Quantity	The number of trade items contained in a complete layer of a higher packaging configuration. Used in hierarchical packaging structure of a trade item. Cannot be used for trade item base unit.	0..1
	quantityOfTradeItemsPerPallet			Trade Item Containment. Items Per Pallet_ Quantity. Quantity	The number of trade items contained in a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet according to supplier or retailer preferences.	0..1
	quantityOfTradeItemsPerPalletLayer			Trade Item Containment. Items Per Pallet Layer_ Quantity. Quantity	The number of trade items contained on a single layer of a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet layer according to supplier or retailer preferences.	0..1
TradeItemInformation				Trade Item Information Group. Details	!! This class is part of the Trade Item Class.	
		None	AllowanceCharge	Trade Item Information Group. Association. Allowance Charge	!! This is a reusable class referenced in the Item BRD as part of the Trade Item Information class. See EAN.UCC Business Message Standard for Allowance-Charge Extension, July 2001.	0..*
		information-ProviderOfTradeItem	Information-Provider	Trade Item Information Group. Association. Information Provider_ Party	None	1..1
		None	PaymentTerms	Trade Item Information	!! This is a reusable class referenced in	0..*

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
				Group. Association. Payment Terms	the Item BRD as part of the Trade Item Information class. See EAN.UCC Business Message Standard for Payment Terms Extension, July 2001.	
		None	TargetMarketInformation	Trade Item Information Group. Association. Named_ Target Market	None	0..*
		None	TradeItemDescriptionInformation	Trade Item Information Group. Association. Trade Item Description	None	1..1
		None	TradingPartnerNeutralTradeItemInformation	Trade Item Information Group. Association. Trading Partner Neutral_ Trade Item	None	1..1
TradeItemMarking				Trade Item Marking. Details	n.a.	
	hasBatchNumber			Trade Item Marking. Batch Number. Indicator	Indication whether the base trade item is batch or lot number requested by law, not batch or lot number requested by law but batch or lot number allocated, or not batch or lot number allocated. A batch or lot number is a manufacturer assigned code used to identify a trade item's trade item on batch or lot. Differs from Serial Number which is a manufacturer assigned code during the trade item on cycle to identify a unique trade item.	0..1
	isNonSoldTradeItemReturnable			Trade Item Marking. Non Sold Returnable. Indicator	Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to Gen-	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					eral Merchandise, Publishing industries and for some FMCG trade item.	
	isTradeItem-MarkedAsRecyclable			Trade Item Marking. Recyclable. Indicator	Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies.	0..1
TradeItemMeasurements				Physical_ Trade Item Dimensions. Details	n.a.	
	genericIngredient			Physical_ Trade Item Dimensions. Generic_ Ingredient. Text	Used for pharmaceutical trade items to describe 1 or many generic ingredients within the trade item.	0..1
	ingredient-Strength			Physical_ Trade Item Dimensions. Ingredient Strength. Measure	Used for pharmaceutical trade item to define the strength of each ingredient in a trade item or unit volume of the trade item. Examples: "100mg" for a tablet, "2%" for a liquid or ointment, where 100 and 2 represent the value, and mg and % are the units of measure.	0..1
	isNetContentDeclarationIndicated			Physical_ Trade Item Dimensions. Net Content Declaration. Indicator	This field is used to facilitate local business rules where a declaration of a trade item's net content is not on the product label . Example: UK under 50g legislation. For a product without an on-pack net content declaration this field should be indicated as 'Y', weight should be communicated at the trade unit level	0..1
		depth	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Depth. Multi-unit Measure	The measurement from front to back of the trade item. Measurements are relative to how the customer normally views the trade item. Refer to EAN.UCC General Specifications for Trade Item Orientation Guidelines.	1..1
		diameter	MultiMeasure-	Physical_ Trade Item	The measurement of the diameter of the	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
			mentValue	Dimensions. Diameter. Multi-unit Measure	trade item at its largest point.	
		drainedWeight	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Drained_ Weight. Multi-unit Measure	The weight of the trade item when drained of its liquid. Example: 225 "grm", Jar of pickles in vinegar.	0..1
		genericIngredi-entStrength	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Generic_ Ingredient Strength. Multi-unit Measure	Used for pharmaceutical trade items to define the strength of each generic ingredient in a trade item or unit volume of the trade item.	0..1
		grossWeight	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Gross_ Weight. Multi-unit Measure	Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade itemGrossWeight includes the weight of the pallet itself. Examples: "200 grm", value - total pounds, total grams, etc.	0..1
		Height	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Height. Multi-unit Measure	The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade itemHeight will include the height of the pallet itself. Example: "60 CMT".	1..1
		netContent	MultiMeasure-mentValue	Physical_ Trade Item Dimensions. Net_ Content. Multi-unit Measure	The amount of the trade item contained by a package, as claimed on the label. In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade items, which are sold by volume or weight, and whose actual content may vary slightly	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					from batch to batch. In case of variable quantity trade items, indicates the average quantity. Examples: Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea."	
		netWeight	MultiMeasure- mentValue	Physical_ Trade Item Dimensions. Net_ Weight. Multi-unit Measure	Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level. For consumer unit, Net Content replaces Net Weight (can then be weight, size, volume).	0..1
		pegHorizontal	MultiMeasure- mentValue	Physical_ Trade Item Dimensions .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	MultiMeasure- mentValue	Physical_ Trade Item Dimensions.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
		width	MultiMeasure- mentValue	Physical_ Trade Item Dimensions. Width. Multi-unit Measure	None	1..1
TradeItemOrder- Information				Trade Item Ordering. Details	n.a.	

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	orderQuantity-Multiple			Trade Item Ordering. Order Multiple_ Quantity. Quantity	The order quantity multiples in which the trade item may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the trade item can only be ordered in quantities which are divisible by the Order Quantity Multiple of 20.	0..1
	orderingLead-Time		MultiMeasure-mentValue	Trade Item Ordering. Ordering_ Lead Time. Multi-unit Measure	The normal delivery time measured from receipt of order by the seller until trade item is shipped by the seller. Examples: 12 hours, 48 hours, 4 days. Geographic distance from Manufacturing/distribution point to delivery point may impact this value.	0..1
	orderingSizeFactor		MultiMeasure-mentValue	Trade Item Ordering. Order Sizing_ Factor. Multi-unit Measure	A trade item specification other than gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of trade item.	0..1
TradeItemPallet-Information				Pallet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	palletTermsAnd-Conditions			Pallet. Terms And Conditions. Text	Indicates if the pallet in the prescribed pallet configuration is rented, exchangeable, against deposit or one way (not reusable).	0..1
	palletTypeCode			Pallet. Type. Bilateral_ Code	Indicates whether the described dispatch unit is delivered on a pallet and on which type of pallet, or if it is non-palletized. If the dispatch unit is delivered on a pallet the pallet type must be given here. The range of the pallet types/codes is listed in	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					code sets.	
TradeItemPrice-DateInformation				Trade Item Price. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	effectiveEndDate			Trade Item Price. Effective_ End Date. Date Time	!! The effective end date of the price is optional based upon the agreement by the trading partners. If an invalid end date is communicated, then it is implied that the price and its effective date are effective until further notice. Examples of invalid dates include 99/99/9999, 00/00/0000, blank, etc. These invalid end dates should not be communicated. Various types of dates may be pre-aligned between buyer and seller. For example, based upon a prior agreement between trading partners this date may relate to any of the following events, last order date, last ship date, and last arrival date.	0..1
	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	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					file.	
TradeItem-SizeDescription				Trade Item Size. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.	
	descriptiveSize			Trade Item Size. Description. Language_ Text	!! An alphanumeric size factor the brand owner wishes to communicate to the consumer. IE Jumbo, Capri, Full Length, Maxi For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..1
	sizeCode-ListAgency			Trade Item Size. Size Code List_ Agency. Text	The parties controlling the size code list. Dependent on size code value. If size code is indicated, sizeCodeListAgency is required.	1..1
	sizeCodeValue			Trade Item Size. Code. Size_ Code	The value from a industry specific code list required to identify the size of the trade item. Can be a combination of values which fully describe the trade item size (32 waist, 36 inseam).	1..1
TradeItemTax-Amount				Trade Item_ Tax Amount. Details	!! This class is part of the TradeItem Tax Information class.	
	taxAmount			Trade Item_ Tax Amount. Amount. Amount	The current tax or duty or fee amount applicable to the trade item.	1..1
		None	TaxAgency	Trade Item_ Tax Amount. Association. Tax Type	None	1..1
TradeItemTaxInformation				Trade Item_ Tax Information Group. Details	!! This reusable class from Trade Item Tax Information is part of the Trading Partner Neutral Trade Item Information Class.	
		None	TradeItemTax-Amount	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Amount	None	1..*

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		None	TradeItem-TaxRate	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Rate	None	1..*
TradeItem-TaxRate				Trade Item_ Tax Rate. Details	!! This class is part of the TradeItem Tax Information class.	
	taxRate			Trade Item_ Tax Rate. Percentage. Percent_ Numeric	The current tax or duty rate percentage applicable to the trade item.	1..1
		None	TaxAgency	Trade Item_ Tax Rate. Association. Tax Type	None	1..1
TradeItemTemperatureInformation				Trade Item Temperature Group. Details	n.a.	
	deliveryToDistributionCenterTemperatureMaximum		MultiMeasurementValue	Trade Item Temperature Group. Delivery To DC_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item on transport to the distribution center. Examples: "+6 C" or degrees F, value.	0..1
	deliveryToMarketTemperatureMaximum		MultiMeasurementValue	Trade Item Temperature Group. Delivery To Market_ Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item during delivery to market. Examples: "+7 C" or degrees F, value.	0..1
	storageHandlingTemperatureMaximum		MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_ Maximum. Multi-unit Measure	The maximum temperature at which the trade item can be stored. When no other information is provided (temperatures to market or/and distribution center), this value applies at any point of the supply chain. Examples: "+15 F" or degrees C, value.	0..1
	deliveryToDistributionCenterTemperatureMinimum		MultiMeasurementValue	Trade Item Temperature Group. Delivery To DC_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item on transport to the distribution center. Examples: "+2 C" or degrees F, value.	0..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	deliveryToMarketTemperatureMinimum		MultiMeasurementValue	Trade Item Temperature Group. Delivery To Market_ Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item during delivery to market to market. Examples: "+3 C" or degrees F, value.	0..1
	storageHandlingTemperatureMinimum		MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_ Minimum. Multi-unit Measure	The minimum humidity in percentages that the goods should be stored in.	0..1
TradeItemUnitIndicator				Trade Item Processing. Details	N.A	
	isTradeItemABaseUnit			Trade Item Processing. Trade Item_Base_ Unit. Indicator	An indicator identifying the trade item as the base unit level of the trade item hierarchy. This is Y/N (Boolean) where 'Y' indicates the trade item is a base unit. Examples: A bundle pack of product is composed of packages without GTINs that cannot be sold individually. This bundle pack would then be a base item. If that same bundle pack contained individual packages that have a GTIN + could be individually sold.	1..1
	isTradeItemAConsumerUnit			Trade Item Processing. Trade Item Consumer_ Unit. Indicator	Identifies whether the current hierarchy level of a trade item is intended for a ultimate consumption. For retail, this trade item will be scanned at point of sale. At retail, this data is commonly used to select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be the intention of the retailer. Examples: A multi-pack of paper towels and the individual	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
					paper towels contained in the multi-pack are both identified as a consumer unit.	
	isTradeItemDespatchUnit			Trade Item Processing. Trade Item Despatch_ Unit. Indicator	An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit. This may be Trading Partner dependent based on channel of trade or other point to point agreement.	1..1
	isTradeItemInvoiceUnit			Trade Item Processing. Trade Item Invoice_ Unit. Indicator	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be Trading Partner dependent based on channel of trade or other point to point agreement.	1..1
	isTradeItemOrderableUnit			Trade Item Processing. Trade Item Orderable_ Unit. Indicator	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be relationship dependent based on channel of trade or other point to point agreement.	1..1
	isTradeItemVariableUnit			Trade Item Processing. Trade Item Variable_ Unit. Indicator	Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume. trade item is used or traded in continuous rather than discrete quantities. Examples: A wheel of cheese: The weight is about 25 kilograms, but it can be 24 kilogram or 27 kilogram.	1..1
Trading Partner Neutral Trade-				Trading Partner Neutral_ Trade Item. Details	n.a.	

Business Solution Design

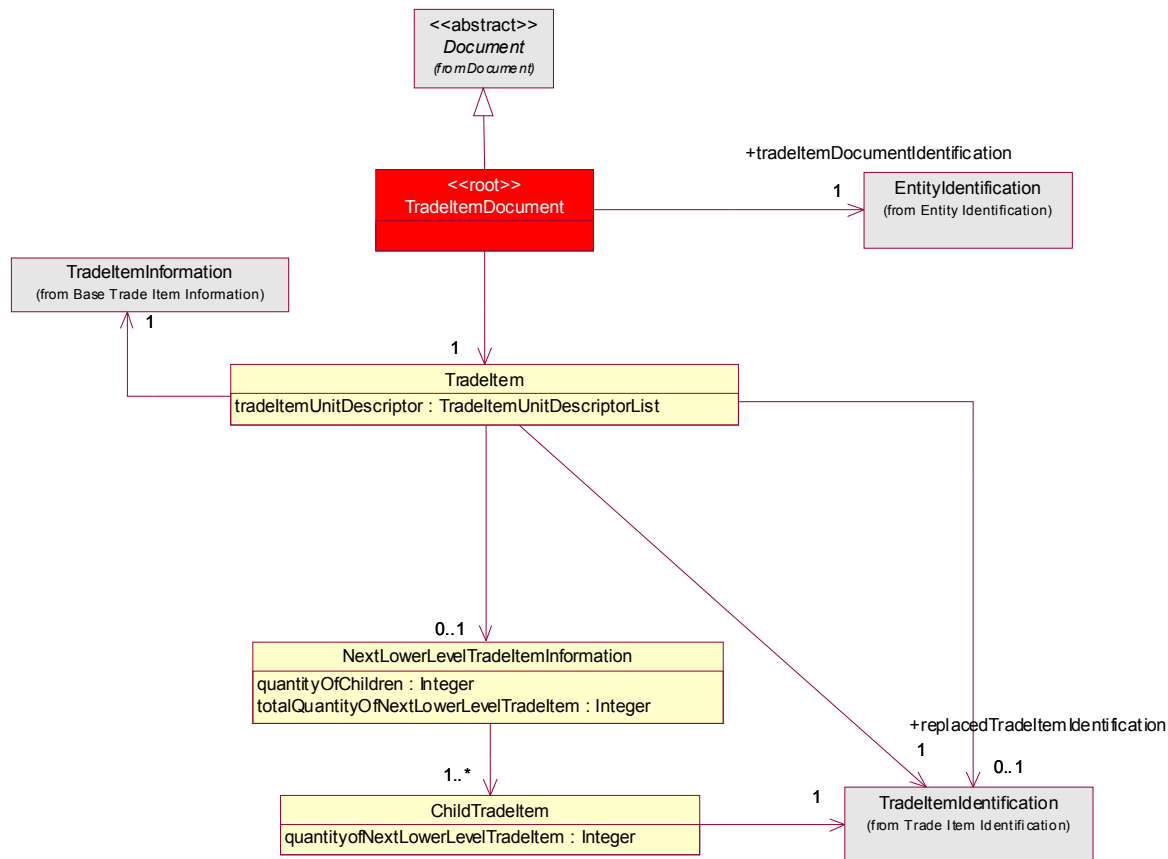
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
ItemInformation						
	barCodeType			Trading Partner Neutral_ Trade Item. Bar Code. Bar Code Type_ Code	Indication if the trade item is physically bar-coded with the primary trade item identification number.	0..*
	tradeItemCountryOfOrigin			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..*

End of Report

Business Solution Design

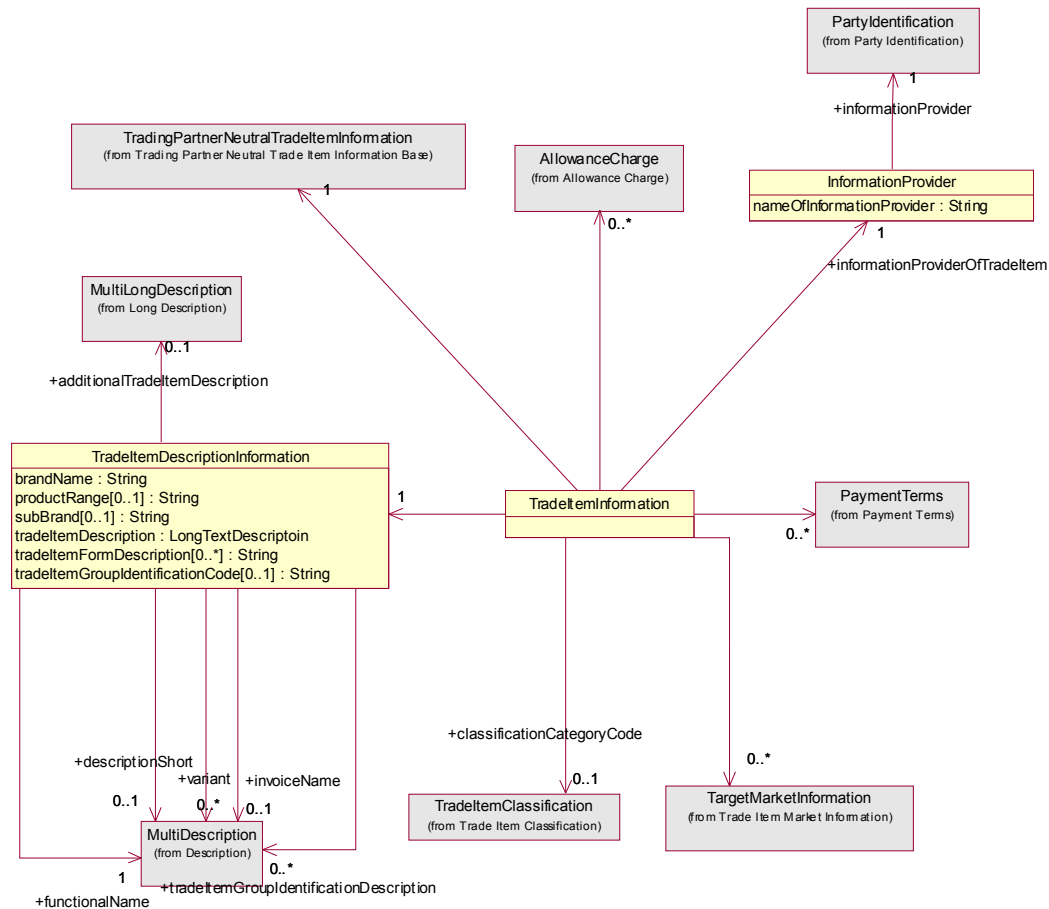
1.5.3 Class Diagrams

1.5.3.1 Class Diagram for Trade Item



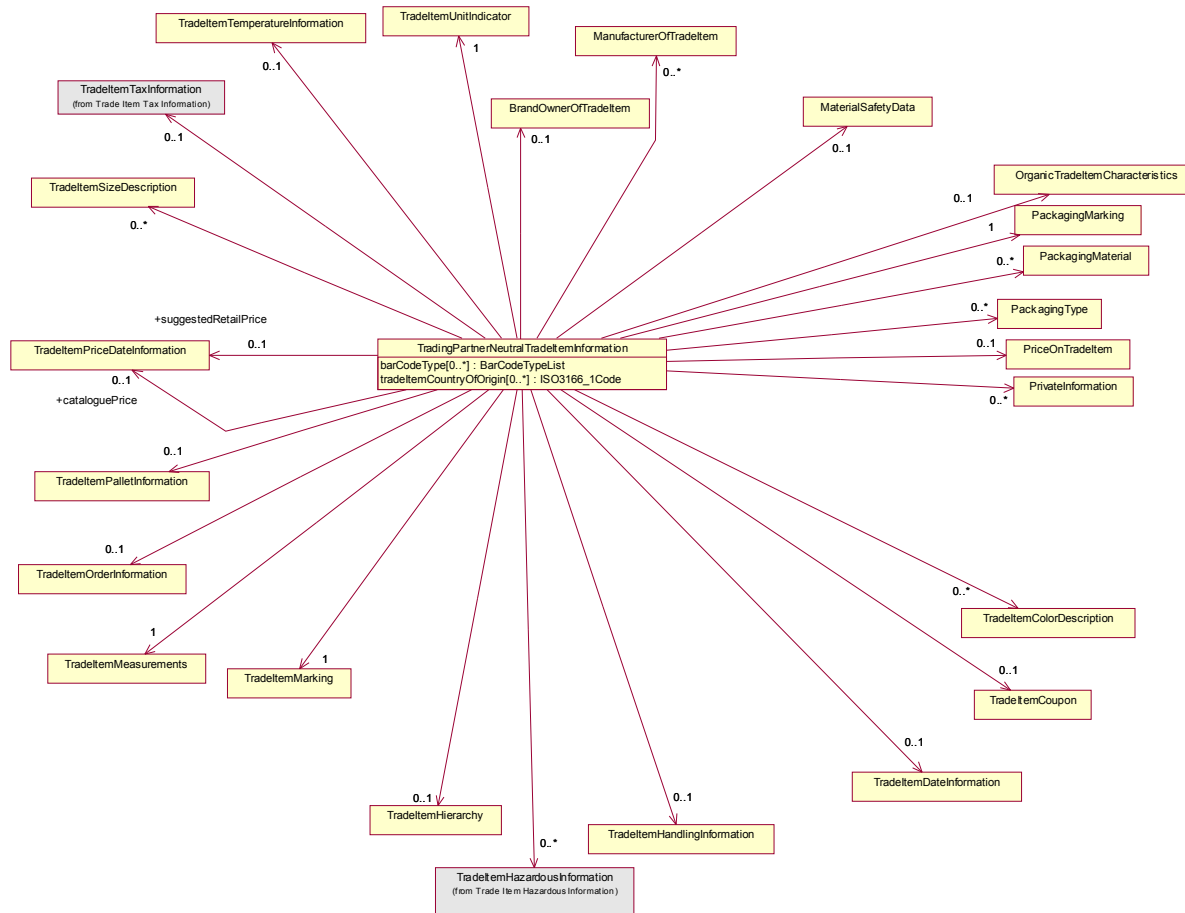
Business Solution Design

1.5.4 Class Diagram Trade Item Information



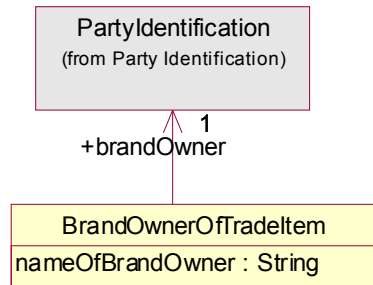
Business Solution Design

1.5.5 Class Diagram Trading Partner Neutral Trade Item Information Relationship

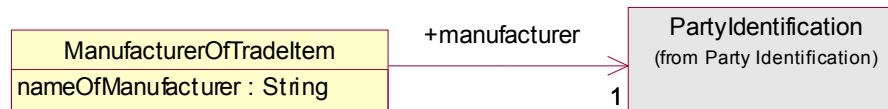


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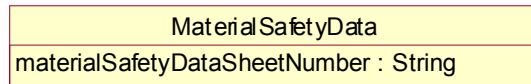
1.5.6 Class Diagram Brand Owner Of Trade Item



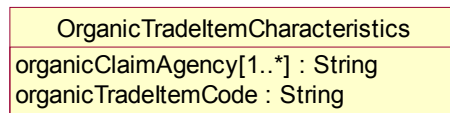
1.5.7 Class Diagram Manufacturer Of Trade Item



1.5.8 Class Diagram Material Safety Data

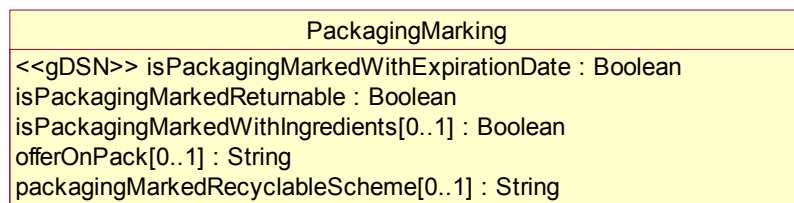


1.5.9 Class Diagram Organic Trade Item Characteristics

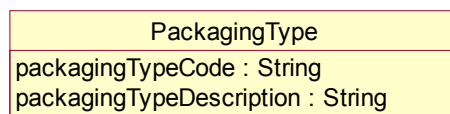


Business Solution Design

1.5.10 Class Diagram Packaging Marking

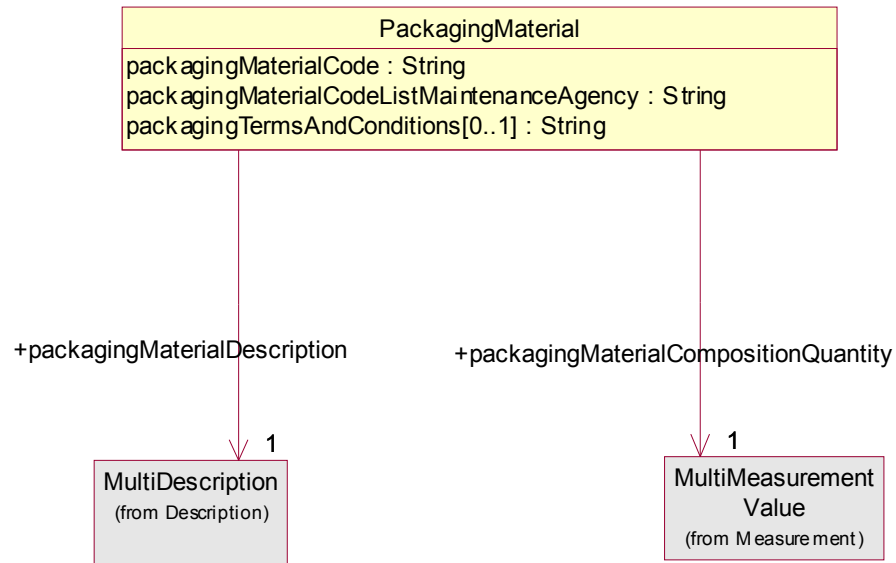


1.5.11 Class Diagram Packaging Type

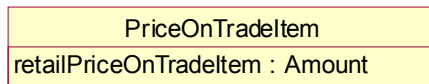


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1.5.12 Class Diagram Packaging Material

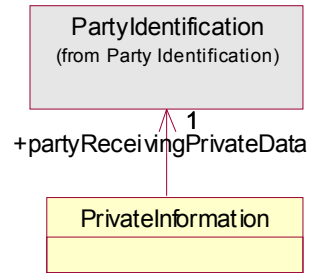


1.5.13 Class Diagram Price On Trade Item



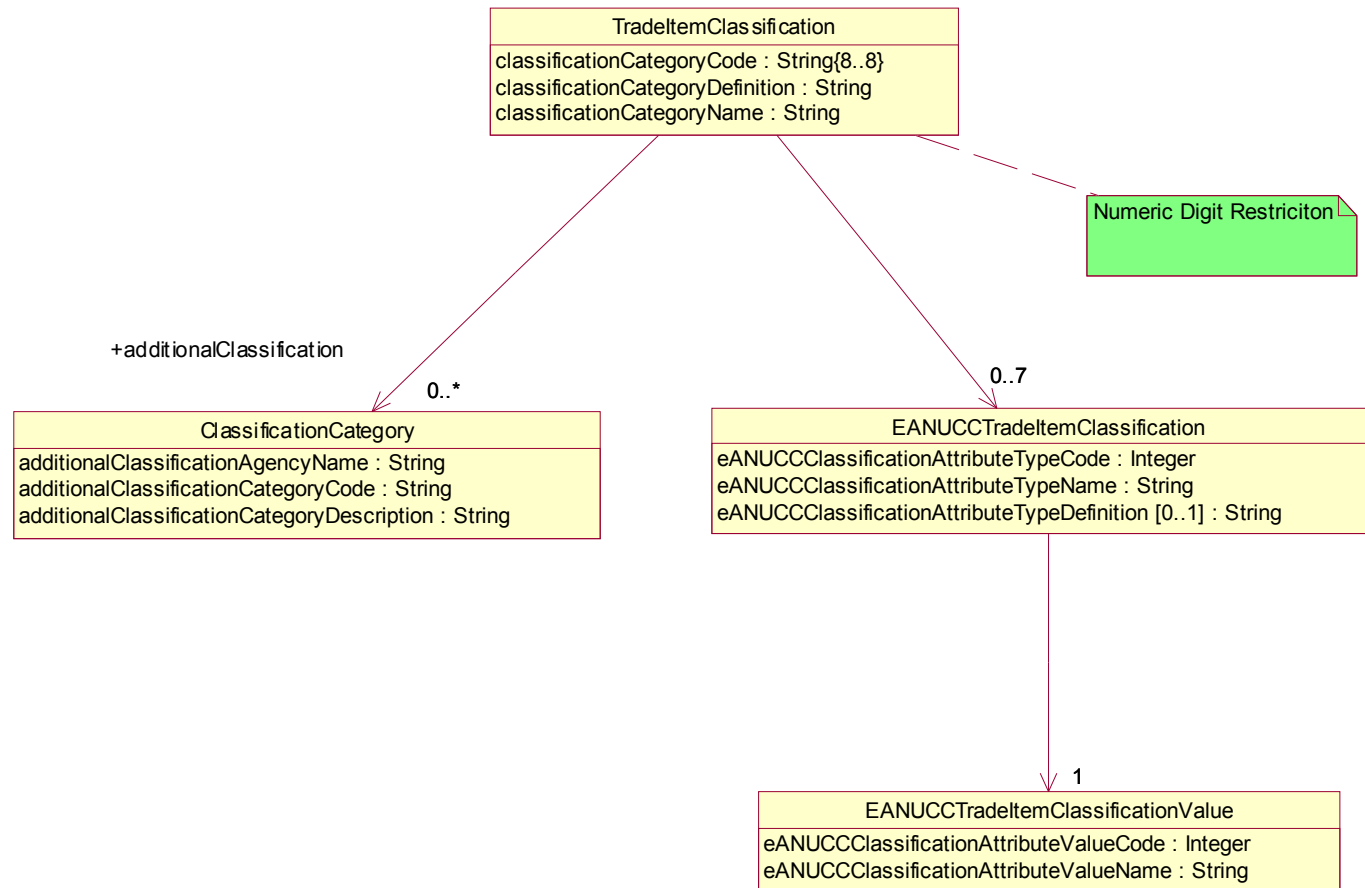
Business Solution Design

1.5.14 Class Diagram Private Information



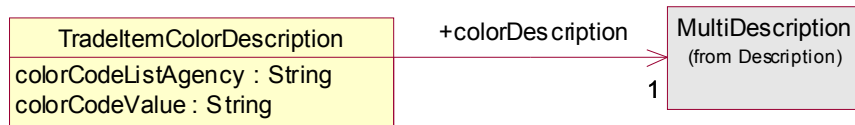
Business Solution Design

1.5.15 Class Diagram Trade Item Classification

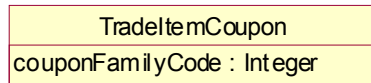


Business Solution Design

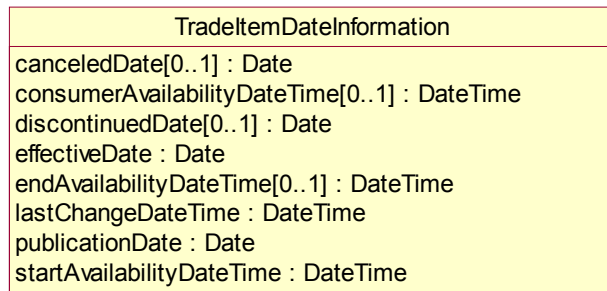
1.5.16 Class Diagram Trade Item Colour Description



1.5.17 Class Diagram Trade Item Coupon

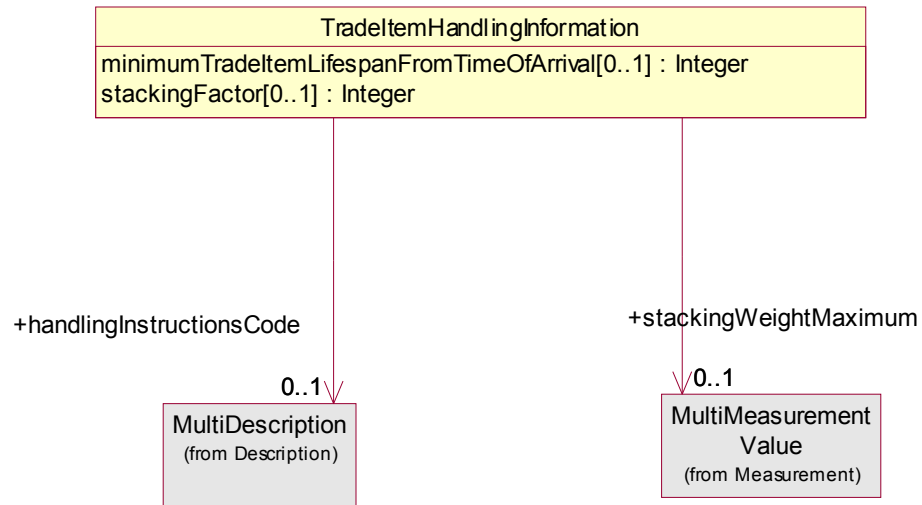


1.5.18 Class Diagram Trade Item Date Information



Business Solution Design

1.5.19 Class Diagram Trade Item Handling Information



Business Solution Design

1.5.20 Class Diagram Trade Item Hierarchy

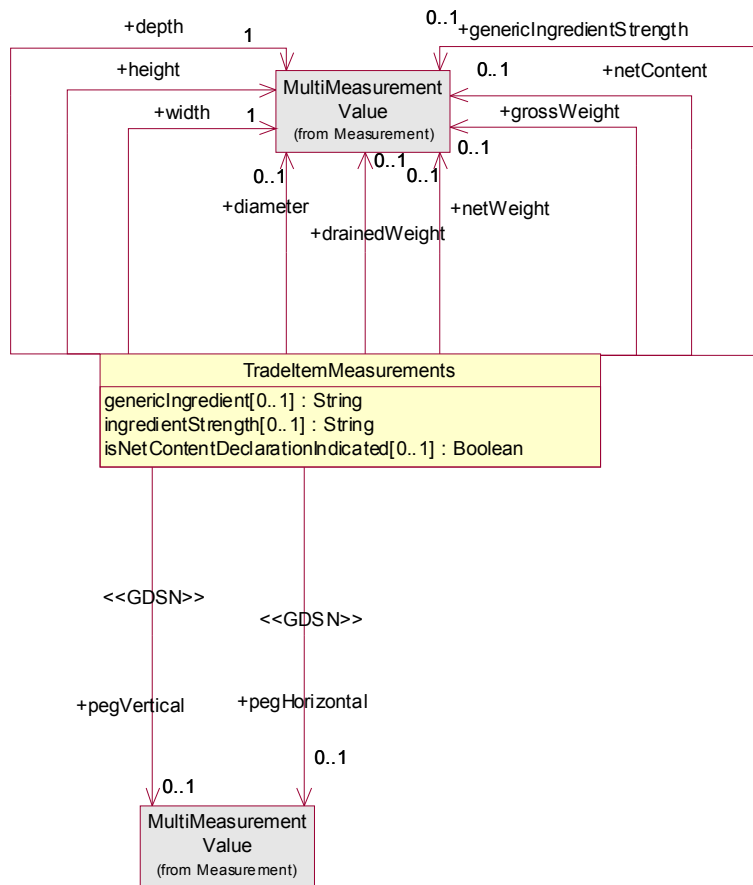
TradeItemHierarchy
quantityOfCompleteLayersContainedInATradeItem[0..1] : Integer quantityOfLayersPerPallet[0..1] : Integer quantityOfTradeItemsContainedInACompleteLayer[0..1] : Integer quantityOfTradeItemsPerPallet[0..1] : Integer quantityOfTradeItemsPerPalletLayer[0..1] : Integer quantityOfInnerPack[0..1]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

1.5.21 Class Diagram Trade Item Marking

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

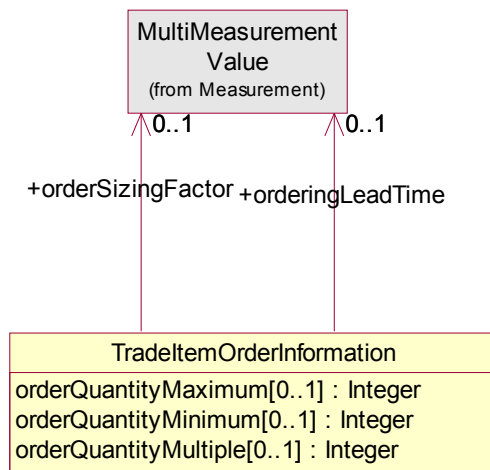
Business Solution Design

1.5.22 Class Diagram Trade Item Measurements

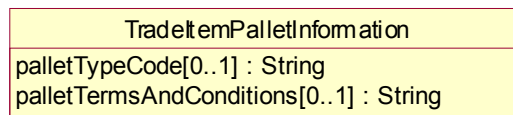


Business Solution Design

1.5.23 Class Diagram Trade Item Order Information



1.5.24 Class Diagram Trade Item Pallet Information



1.5.25 Class Diagram Trade Item Price Date

Business Solution Design

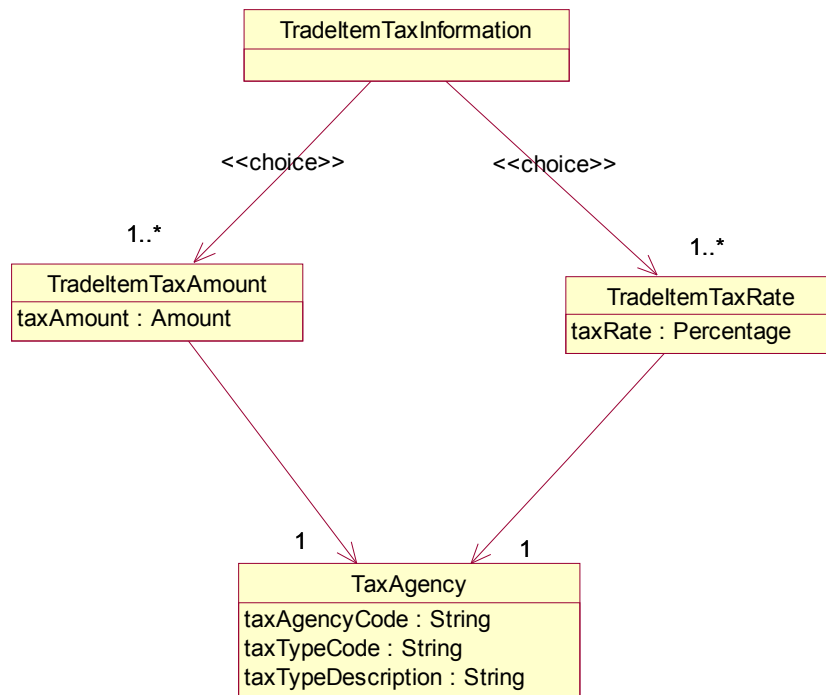
TradeItemPriceDateInformation
effectiveStartDate : Date value : Amount effectiveEndDate[0..1] : Date

1.5.26 Class Diagram Trade Item Size Description

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

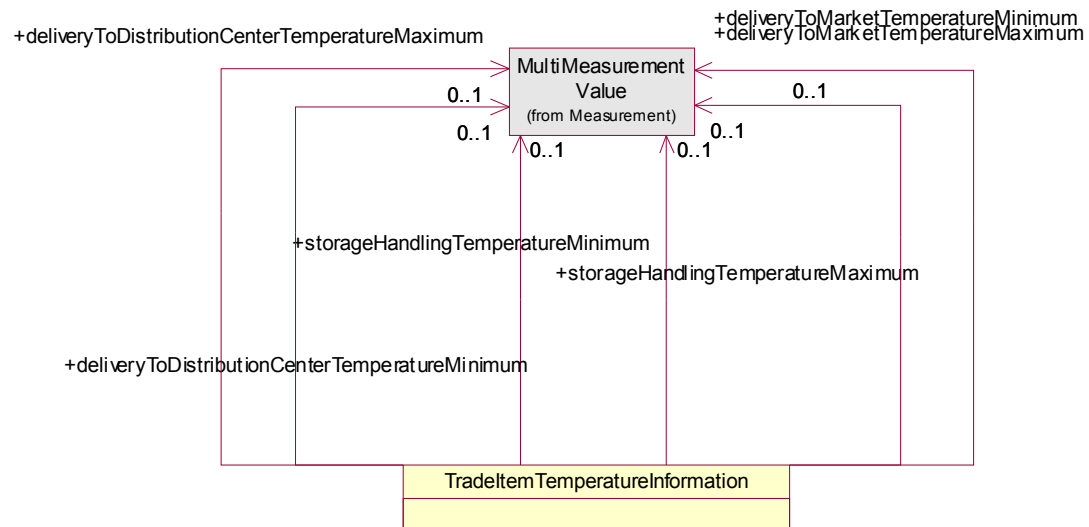
1.5.27 Class Diagram Trade Item Tax Information

Business Solution Design



Business Solution Design

1.5.28 Class Diagram Trade Item Temperature Information



Business Solution Design

1.5.29 Class Diagram Trade Item Unit Indicator

TradeItemUnitIndicator
isTradeItemABaseUnit : Boolean isTradeItemAConsumerUnit : Boolean isTradeItemADespatchUnit : Boolean isTradeItemAVariableUnit : Boolean isTradeItemAnInvoiceUnit : Boolean isTradeItemAnOrderableUnit : Boolean

1.5.30 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

1.6 Business Document Example

1.7 Implementation Considerations

1.7.1 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.

Business Solution Design

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

Business Solution Design

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

Colour 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 Colour & 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 colours. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colours on coated, uncoated and matte stock, shows corresponding printing ink formulas for each colour, 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 Colour System® Provides a comprehensive palette of more than 3,000 colours achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Colour 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 Colour Reference Guides for the graphic arts include metallic, pastels, tints, duotones, film and foil. The PANTONE Hexachrome® Colour System Pantone® Inc http://www.pantone.com

Business Solution Design

Colour Code List Agency

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

Business Solution Design

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

Business Solution Design

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

Business Solution Design

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

Business Solution Design

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	Aluminium
	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	Fiberboard
	40	Fiberboard Metal

Attribute Name	Comments	
	Code	Code Description
	43	Glass
	46	In Inner Containers
	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

Attribute Name	Comments	
	Code	Code Description
	82	Pulpboard
	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

1.8 Testing

1.8.1 Pass / Fail Criteria

Not defined.

1.8.2 Test Data

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

Business Solution Design

1.9 Appendices

1.10 Summary of Changes

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

Change	BMS Ver- sion	Associated CR Number
•		

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