



Business Message Standard (BMS) Align/Trade Item (Data Definition)

BMS Release: 2.2, BRG Name: GDSN

Issue 9.1.1, 03-Dec-2007

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Align/Trade Item (Data Definition)
BMS Release	2.2
BRG Name	GDSN
Document Number	Issue 9.1.1
Date Last Modified	03-Dec-2007
Status	Issue
Owner	GDSN BRG
BMS Template Version	1.8

Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
21-Aug-2001	Uniform Code Council	01-000009
22-Aug-2001	Uniform Code Council	01-000011
21-Sep-2001	WorldWide Retail Exchange	01-000064
21-Sep-2001	Uniform Code Council	01-000065
12-Apr-2002	GCI – GDD	02-000065
28-Jun-2002	EAN Sweden	02-000124
13-Aug-2002	e.centre (EAN UK)	02-000172
14-Feb-2003	GENCOD (EAN France)	03-000021
27-May-2003	ITRG	03-000074
09-Jun-2003	e. centre (EAN UK)	03-000082
17-Oct-2003	UCC	03-000144
14-Jun-2004	UCCnet	04-000129
11-Jul-2005	GS1 France	05-000389
03-Aug-2006	Agentrics	06-000182
03-Aug-2006	Agentrics	06-000181
22-Aug-2006	1SYNC	06-000192
22-Aug-2006	1SYNC	06-000196
23-Aug-2006	Agentrics	06-000198
31-Oct-2006	GS1 UK	06-000269
03-Nov-2006	GS1 Australia	06-000275
10-Nov-2006	Nestle	06-000280
01-Dec-2006	UDEX	06-000313

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
12-Dec-2006	GS1 Norway by Agentrics	06-000331
13-Dec-2006	Nestle	06-000235
21-Dec-2006	1SYNC	06-000340
28-Dec-2006	GS1 Sweden	06-000343
10-Jan-2007	GS1	07-000008
02-Feb-2007	GS1	07-000043
09-Feb-2007	GS1	07-000053
03-May-2007	GS1	07-000187
03-Oct-2007	1Sync	07-000339
12-Jul-2007	GS1 Spain	07-000280
02-Jul-2007	GS1 France	07-000267

Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
{ref1} BRD Data Synchronisation Data Model For Trade Item (Data Definition)		7.6
{ref2} BRD For Trade Item Extension Apparel and Home Fashion		2.4
{ref3} BRD For Hardlines Extension		0.8
{ref4} BRAD For GDSN Item Maintenance Release		0.0.5

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
30-Dec-2004	9.0.0	Eric Kauz	Initial Draft of BSD		
03-Apr-2005	9.0.1	Eric Kauz	Incorporation of Apparel, Hardlines and Item Regional.		
31-Mar-2005	9.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A
23-May-2005	9.0.3	Eric Kauz	Update to GDSN Classification to fix errata.		
03-Mar-2006	9.0.4	Eric Kauz	Made changes to existing item attributes and code lists based on CRs 05-000389 and 04-000129.	See section 1.10 for detailed list of changes.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
12-Jun-2007	9.0.5	Eric Kauz	<ul style="list-style-type: none"> ■ • Changed packagingTermsandConditions to packagingTermsAndCondition. ■ • Updated definition of TradeItemDescription to eliminate field length references. 	Comment review period.	
20-Apr-2007	9.0.6	Giovanni Biffi/Eric Kauz	<ul style="list-style-type: none"> ■ Code Value added to the SpecialItemCodeList ■ Code Value added to PackagingMaterialCodeList ■ Code Value added to the SizeTypeCodeList ■ Code Values added to the AdditionalClassificationAgencyCodeList ■ Code Values added to the PackagingTermsAndConditionsCodeList ■ Added business rules from Item BRD ■ Updated Business Rules for Target Market Subdivision Code, Functional Name, Trade Item Country Of Origin, Net Weight. 	Changes corresponding to the GDSN Maintenance Release 1	
05-Jul-2007	9.0.7	Eric Kauz	<ul style="list-style-type: none"> ■ Removed Code 12 (ECC) from the AdditionalClassificationAgencyCodeList ■ 	Requirement for code value was in error.	
01-Aug-2007	9.0.8	Giovanni Biffi/Eric Kauz	Document updated to fulfill requirements of MR2. See appendix for detailed information.	Changes corresponding to the GDSN Maintenance Release 2	NA
14-Sept-2007	9.0.9	Eric Kauz	MR2 Public review comments. See appendix for detailed information.		
12-Oct-2007	9.1.0	Eric Kauz	E-ballot and approval.	Publication updates and update of definition of pallet type code 27	
03-Dec-2007	9.1.1	Eric Kauz	<ul style="list-style-type: none"> ■ Added definitions for code list values "LOOSE" and "PRE_PACKED" in the VariableMeasureTradeItem Code List. ■ Add GS1 Spain to Additional Classification Agency ■ Add "point" in the Unit Of Measure codelist. 	Code List Release	

Disclaimer

Whilst every effort has been made to ensure that the guidelines to use the GS1 standards contained in the document are correct, GS1 and any other party involved in the creation of the document HEREBY STATE that the document is provided without warranty, either expressed or implied, of accuracy or fitness for purpose, AND HEREBY DISCLAIM any liability, direct or indirect, for damages or loss relating to the use of the document. The document may be modified, subject to developments in technology, changes to the standards, or new legal requirements. Several products and company names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

Table of Contents

1.	Business Domain View	8
1.1.	Problem Statement / Business Need	8
1.2.	Objective.....	8
1.3.	Audience.....	8
1.4.	References	8
1.5.	Acknowledgements	10
1.5.1.	BRG Work Group	10
1.5.2.	Design Team Members	11
2.	Business Context	11
3.	Additional Technical Requirements Analysis.....	11
3.1.	Technical Requirements (optional).....	11
4.	Business Transaction View	11
4.1.	Business Transaction Use Case Diagram	11
4.2.	Use Case Description.....	11
4.3.	Business Transaction Activity Diagram(s).....	23
4.4.	Business Transaction Sequence Diagram(s) (optional).....	23
5.	Information Model (Including GDD Report)	24
5.1.	GDD Report.....	24
5.1.1.	Trading Partner Neutral Trade Item Information	32
5.2.	Class Diagrams	64
5.2.1.	Class Diagram for Trade Item	64
5.2.2.	Class Diagram for Trade Item Information	65
5.2.3.	Class Diagram Trading Partner Neutral Trade Item Information Relationship	66
5.2.4.	Class Diagram Brand Owner Of Trade Item	67
5.2.5.	Class Diagram GDSN Trade Item Classification.....	68
5.2.6.	Class Diagram Manufacturer Of Trade Item	69
5.2.7.	Class Diagram Marketing Information.....	69
5.2.8.	Class Diagram Material Composition.....	69
5.2.9.	Class Diagram Material Safety Data	69
5.2.10.	Class Diagram Non Package Trade Item Dimension.....	70
5.2.11.	Class Diagram Ordering and Selling Unit Of Measure	70
5.2.12.	Class Diagram Organic Trade Item Characteristics.....	71
5.2.13.	Class Diagram Packaging Marking	71
5.2.14.	Class Diagram Packaging Material	72
5.2.15.	Class Diagram Packaging Type	72
5.2.16.	Class Diagram Price On Trade Item	73
5.2.17.	Class Diagram Private Information.....	73
5.2.18.	Class Diagram Season.....	73

5.2.19.	Class Diagram Security Tag Information	74
5.2.20.	Class Diagram ShipFromLocation.....	74
5.2.21.	Class Diagram Target Consumer.....	74
5.2.22.	Class Diagram Trade Item Color Description.....	74
5.2.23.	Class Diagram Trade Item Coupon.....	74
5.2.24.	Class Diagram Trade Item Date Information.....	75
5.2.25.	Trade Item External Information.....	76
5.2.26.	Class Diagram Trade Item Finish.....	76
5.2.27.	Class Diagram Trade Item Handling Information	77
5.2.28.	Trade Item Hazardous Information	78
5.2.29.	Class Diagram Trade Item Hierarchy.....	78
5.2.30.	Class Diagram Trade Item Import Identification.....	78
5.2.31.	Class Diagram Trade Item Marking	79
5.2.32.	Class Diagram Trade Item Material	79
5.2.33.	Class Diagram Trade Item Measurements	80
5.2.34.	Class Diagram Trade Item Order Information	81
5.2.35.	Class Diagram Trade Item Pallet Information	81
5.2.36.	Class Diagram Trade Item Price Date	82
5.2.37.	Class Diagram Trade Item Size Description	82
5.2.38.	Class Diagram Trade Item Tax Information	83
5.2.39.	Class Diagram Temperature Information	84
5.2.40.	Class Diagram Trade Item Unit Indicator	85
5.3.	Code Lists.....	86
6.	Business Document Example	95
7.	Implementation Considerations.....	95
7.1.	Attributes with Code Lists.....	95
7.2.	External Code Lists	98
7.3.	Additional Classification Agency Name.....	102
7.4.	Color Code List Agency.....	103
7.5.	Size Code List Agency	106
7.6.	Organic Trade Item Code.....	106
7.7.	Organic Claim Agency.....	107
7.8.	Packaging Type Code	107
7.9.	Packaging Type Code.....	108
7.10.	Packaging Material Code, Packaging Material Code List Maintenance Agency	113
7.11.	Packaging Terms and Conditions	114
7.12.	Pallet Type Code	115
7.13.	Pallet Terms and Conditions	116
7.14.	GS1 Packaging Material Codes	117
7.15.	Relationship to Global Data Synchronization Process.....	119
8.	Testing.....	119
8.1.	Pass / Fail Criteria	119



8.2. Test Data 120

9. Appendices120

9.1. Appendix A: Attribute Variations..... 120

9.2. Appendix B: Attribute Associations 126

9.3. Appendix C: Trade Item Descriptor Usage 131

10. Summary of Changes.....132

1. Business Domain View

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 GS1 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.

1.2. Objective

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

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.

1.4. 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	

Reference Name	Description
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 Catalogue	
I/C EDI 832 Price Sales Catalogue	
EANCOM® PRICAT	
ebXML/SOAP	
eCo Framework (Common Business Library)	
Rosettanet	

1.5. Acknowledgements

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

1.5.1. BRG Work Group

Function	Name	Company / organisation
BRG Work Group Member	Buckley, Greg	Pepsi-Cola USA
BRG Work Group Member	Costello, Aidan	QRS
BRG Work Group Member	Funk, Jim	SC Johnson
BRG Work Group Member	Geyer, Terrie	Sears Roebuck & Company
BRG Work Group Member	Gore, Harshal	e.centre-UK
BRG Work Group Member	Harris, Mike	Vialink
BRG Work Group Member	Hawkins, Bruce	Wal-Mart
BRG Work Group Member	Iwicka, Ewa	GS1
BRG Work Group Member	Kasper, Sascha	GS1 Germany, CCG
BRG Work Group Member	Kille, Grant	AGENTRICS
BRG Work Group Member	Laskero, Nancy	Sears Roebuck & Company
BRG Work Group Member	Laur, Rita	ECCC, Canada
BRG Work Group Member	Lerch, Hanjörg	Metro AG, Germany
BRG Work Group Member	Licul, Ed	Transora
BRG Work Group Member	Lockhead, Sean	UCCNet
BRG Work Group Member	Merulla, Mike	Wegmans
BRG Work Group Member	Moise, Michael	Nestle
BRG Work Group Member	Mouton, Olivier	Carrefour, France
BRG Work Group Member	Ngo, Aileen	Nestle
BRG Work Group Member	Panaccio, Robert (Co-chair)	Procter & Gamble
BRG Work Group Member	Pottier, Natascha (Co-chair)	GS1 Germany, CCG
BRG Work Group Member	Sadiwnyk, Mike	ECCC, Canada
BRG Work Group Member	Schneck, Joy	General Mills
BRG Work Group Member	Sheldon, Emma	UDEX
BRG Work Group Member	Spooner, Karen	Kraft Foods
BRG Work Group Member	Vacval, Milan	JDA
BRG Work Group Member	Walton, Mike	UDEX
BRG Work Group Member	Warde, Nadim	Equadis
BRG Work Group Member	Watt, Anna (Co-chair)	Cadbury/Schweppes
BRG Work Group Member	Wasielewski, David	Connective Commerce
BRG Work Group Member	Zielinski, Felix	The Coca Cola Company

1.5.2. Design Team Members

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

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Align GDSN
System Capabilities	EAN.UCC
Official Constraints	None

3. Additional Technical Requirements Analysis

Not Applicable.

3.1. Technical Requirements (optional)

Not Applicable.

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

NA

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)	The two general players in the Data Sync Trade Item business process are the "seller" and the "buyer".

	<p>Depending on the specific nature of the relationship other players may have a role, such as a Third Party. The graphic flow below pictures the core sequence of messages, and is expanded to account for additional scenarios.</p> <table border="1" data-bbox="391 321 1252 590"> <thead> <tr> <th>Actor's Name</th> <th>Description</th> <th>Buyer</th> <th>Seller</th> <th>3rd Party</th> </tr> </thead> <tbody> <tr> <td>Seller</td> <td>Manufacturer or supplier of the item.</td> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td>Buyer</td> <td>Retailer or distributor of the item</td> <td>X</td> <td></td> <td>X</td> </tr> <tr> <td>Third Party</td> <td>Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item.</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>	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 organizational information to buyer. Other data alignment follows such as item and price attributes.</p>																				
Post conditions	<p>The end-state of the Data Sync Trade Item business process occurs when the parties have achieved Party and Item data alignment.</p>																				
Scenario	<p>Begins when... trading partners discuss the need to exchange item information.</p> <p>Continues with...</p> <table border="1" data-bbox="375 1230 1442 1465"> <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	<table border="1" data-bbox="375 1629 1442 1808"> <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> </tbody> </table>	Step #	Actor	Activity Step	1			2			3										
Step #	Actor	Activity Step																			
1																					
2																					
3																					

Related Requirements		
Related Rules	Attribute Name	Business Rules
	additionalClassificationAgencyName	Required if additional classification schema field are populated.
	additionalTradeltemDescription	May be used for additional technical or commercial information. As a descriptive text field, this data element is repeatable for each language used and must be associated with a valid ISO language code.
	barCodeType	Multiple values allowed. Use enumerated BarCode Type List.
	brandName	Free form text field, but not necessarily tied to language. Brands are more likely to be language independent. If a trade item does not have a brand, Use 'unbranded' in the description. This is a Mandatory field. If a trade item is changed from being "Unbranded" to a brand, this requires a new GTIN. GTIN allocation rules may vary by industry.
	brandOwner - represented by relation to Party Identification	The brand owner is the source of the data relating to the trade item, but is not necessarily responsible for providing and maintaining the data in the catalogue. This is the responsibility of the information provider. While the class BrandOwnerOfTradeltem is optional, the party identification for the brand owner is required when a brand owner is present.
	classificationCategoryCode	The system will assign Bricks on a first-approved, first-served basis. Mandatory within the Data Sync process.
	casingTareWeight	The aggregate of the tare weight can be used for calculating the higher packaging levels. For example a sausage has a net weight of 120 grams; the tare weight – food casing is 5 grams. When in a carton of 12 sausages - add together each sausage's tare weight – food casing for the accumulated total of all the sausages in the carton for total tare weight – food casing by carton 5 grams *12 sausages = 60 grams tare weight – food casing.
	colorCodeListAgency	If colour code is indicated, colorCodeListAgency is required.
	colorCodeValue	If colour code is indicated, colorCodeListAgency is required. EANCOM code list is to be used. This is used by certain industries which maintain specific colour code lists.
	colorDescription	Free form text. As description text field. This data element is repeatable for each language used and must be associated with a valid ISO language code.
	consumerAvailabilityDateTime	Time is expressed in the time zone of the target market where the trade item is intended for resale to consumers. ISO 8601 date format CCYY-MM-DDTHH:MM:SS.
	dangerousGoodsRegulationCode	Various systems (ADR, RID, US49, IATA, etc.) exist and are used for hazard classification and identification. Repeatable field http://www.unece.org/trade/untdid/d99b/tred/tred8273.htm Hazardous attributes relate to supply chain handling (e.g. transport, storage, handling).

deliveryToDistributionCenterTemperatureMaximum	Temperature information is important for dairy trade item, dangerous goods and other trade items for which certain temperature limits are necessary during transport or storage, for quality or safety reasons. Has to be associated with valid UoM.
deliveryToDistributionCenterTemperatureMinimum	Temperature information is important for dairy trade item, dangerous goods and other trade items for which certain temperature limits are necessary during transport or storage, for quality or safety reasons. Has to be associated with valid UoM.
deliveryToMarketTemperatureMaximum	Temperature information is important for dairy trade item, dangerous goods and other trade items for which certain temperature limits are necessary during transport or storage, for quality or safety reasons. Has to be associated with valid UoM.
deliveryToMarketTemperatureMinimum	Temperature information is important for dairy trade item, dangerous goods and other trade items for which certain temperature limits are necessary during transport or storage, for quality or safety reasons.
depth	Measurements are relative to the type of trade items being measured. There are two cases described by the GDSN Packaging Measurement Rules: consumer trade items and non consumer trade items. Make sure you use the right specifications.
descriptionShort	Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code.
descriptiveSize	A descriptive size other than net content as labelled on consumer unit. Must be associated with a valid ISO language code.
descriptiveSizeDimension	Either sizeDimension or descriptiveSizeDimension must be present, but not both. descriptiveSizeDimension is a description and is part of a mandatory choice (the other choice value being sizeDimension).
effectiveDate	This date will be used for version management. The effective date can be different from publication date. If a new user begins to synchronize data on this GTIN after the original effective date, the effective date = the publication date for the new user. Time zone of the information provider may be noted in future drafts of the GDD. ISO 8601 date format CCYY-MM-DD
effectiveEndDate	PriceEndDate not required at time of initial price amount. Format defined by ISO8601
endAvailabilityDateTime	If the trade item is public only one date is valid per GTIN, GLN, TM combination. If Item is private there can be more than 1 value per TM. There is only one "end availability date" per GTIN/GLN/TM combination at any given time. In the case of seasonal trade items, only one start/end cycle can be in the data set version being synchronized. Therefore, a trade item cannot have multiple start/stop availability dates associated with it at any given time. Field is optional since most trade items are offered in an open ended environment. Is trading partner neutral for public trade items, trading partner dependent for private trade items.

	fatPercentageInDryMatter	Note: This requirement is handled through the FMCG Extension. Mainly concerns cheese and dairy trade items. Percentage is implicit.	
	fileEffectiveEndTime	The fileEffectiveEndTime must be greater than the fileEffectiveStartTime when present.	
	fileEffectiveStartTime	The fileEffectiveStartTime must be present if the uniformResourceIdentifier is entered.	
	fileFormatName	The fileFormatName must be present if the uniformResourceIdentifier is entered.	
	fileName	The first 14 characters of the file name must match the GTIN of the associated trade item.	
	fileName	If the file is an image, the name must follow the GS1 Image Standards Naming Conventions.	
	fileName	The fileName must be present if the uniformResourceIdentifier is entered.	
	flashPointTemperature	Expressed in Celsius (or Centigrade) or Fahrenheit Format defined by UN/EDIFACT 7106. Has to be associated with valid UoM. Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).	
	functionalName	<p>Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code.</p> <p>Additional examples include: Yogurt Hammer Paint Nail Towel DVD Computer Flour Sheets Shirt Pants Jeans Facial tissues</p>	
	GDSNTradeItemClassificationAttribute	Only one instance of the same value for Attribute Value Type code is valid per trade item	
	genericIngredient	If genericIngredient attribute is populated, then genericIngredientStrength attribute must also be populated.	

globalTradeItemNumber	EAN.UCC numbering structures will be used for the identification of trade items. All of them will be considered as 14-digit Global Trade Item Number (GTIN). Must be present to enable data to be presented to trade item catalogue. Must be submitted by the owner of the data (who may be the original manufacturer, the importer, the broker or the agent of the original manufacturer). This field is mandatory within the Global Data Synchronization work process.
handlingInstructionsCode	Repeatable values are accepted.
hasBatchNumber	Local legal requirement (E.g. Austria). Relevant only for certain industries.
height	Measurements are relative to the type of trade items being measured. There are two cases described by the GDSN Packaging Measurement Rules: consumer trade items and non consumer trade items. Make sure you use the right specifications.
importClassificationValue:	Required on Import Products only.
informationProvider	Combination of this field (gln) + gtin + target market uniquely identifies a set of attributes for a trade item. The data owner is not necessarily the source of the data, but has the responsibility to provide and maintain the data in the catalogue. This field is mandatory within the Global Data Synchronization work process.
ingredientStrength	Sector specific extension pharmaceutical trade item. Can be locally mandatory based on each country's laws. Has to be associated with a valid unitBasisOfMeasure
invoiceName	Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code. Most likely will include several abbreviations.
isIngredientIrradiated	Note: This requirement is handled through the FMCG Extension. Should only be submitted if a claim is made on the trade item. Only used if isTradeItemAConsumerUnit=true
isNetContentDeclarationIndicated	For a product without an on-pack net content declaration this field should be indicated as No, weight should be communicated at the trade unit level.
isNonSoldTradeItemReturnable	This attribute applies to certain industries, and applies to return of saleable goods. This indicator identifies the general rule, and is not transaction based.
isPackagingMarkedReturnable	Boolean Y/N; Y= marked returnable, N= not returnable. Attribute applies to returnable packaging with or without deposit.
isPackagingMarkedWithIngredients	Boolean Y/N where Y=marked with ingredients , N=not marked with ingredients. trade item ingredients are required to be shown on the trade item (normally consumer unit level) Sector specific and geographical extension. List of ingredients can be legally required in some countries for limited trade item sectors.
isRawMaterialIrradiated	Note: This requirement is handled through the FMCG Extension. Should only be submitted if a claim is made on the trade item.
isPriceOnPack	This attribute is only used when the trade item is a consumer unit.

isTradelItemAConsumerUnit	There can be more than one consumer unit in one hierarchy.
isTradelItemADespatchUnit	There can be more than one despatch unit in one hierarchy.
isTradelItemAnInvoiceUnit	There can be more than one invoicing unit in one hierarchy.
isTradelItemAnOrderableUnit	There can be more than one ordering unit in one hierarchy.
isTradelItemAVariableUnit	Boolean Yes=variable, No=fixed.
isTradelItemIrradiated	Note: This requirement is handled through the FMCG Extension. Should only be submitted if a claim is made on the trade item.
isTradelItemMarkedAsRecyclable	This is a yes/no (Boolean) where yes equals trade item marked with ISO markings.
lastChangeDateTime	System generated by the home data pool. Date format defined in ISO 8601- CCYY-MM-DDTHH:MM:SS
manufacturer- represented by relationship to Party Identification	While the class ManufacturerOfTradelItem is optional, the party identification for the manufacturer is required when the manufacturer of trade item is populated.
materialAgencyCode:	materialCode and materialAgencyCode are paired elements; if one is used the other must be present. These fields are used in conjunction with the percentage.
materialCode	materialCode and materialAgencyCode are paired elements; if one is used, the other must be present. These fields are used in conjunction with the percentage. materialCode should match the value of materialContent if both are populated.
materialContent	materialContent should match the value of materialCode if both are populated.
materialPercentage	This field can be used in conjunction with the fields 'materialCode' or 'materialContent'.
materialSafetyDataSheetNumber	This is an internal number which is distributed by the manufacturer. Can be in any format. This attribute is mandatory if the Material Safety Data Sheet attribute is "Y".
materialWeight	Acceptable Units of Measure for fabric weight are: ON – Ounces per square yard (oz/yd ²)GM - Grams per square meter (g/m ²).
minimumTradelItemLifespanFromTimeOfArrival	This field is indicative of the normal Minimum Shelf Life. It is recognized that this figure may vary slightly depending upon locations of DC or Stores, therefore it is repeatable. This information is linked to the Target Market. Must be expressed in number of days.
nameOfManufacturer	May or may not be the brand owner. This is not the name of a party that assembles trade item. It is an optional field, manually maintained, that can identify the company that manufactures the product.

	netContent	<p>netContent is primarily for shelf labelling and price comparison and is not primarily a description field.</p> <p>This attribute is mandatory for consumer trade items. A consumer trade item can be an "each" or a "case" or any other level in the hierarchy.</p> <p>May be used by retailers to create a price comparison for the consumer. It is possible to express net content in both metric and imperial values.</p> <p>In case of multi-pack, indicate the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade item which are sold by volume or weight, and whose actual content may vary slightly from batch to batch.</p> <p>In case of variable measure trade items, indicate the average quantity."</p> <p>Attribute priceComparisonMeasurement is also used to provide a price comparison when the comparison is other than netContent.</p>																													
	netWeight	<p>Weight excludes all packaging material, including the packaging material for all lower-level GTINs.</p> <p>Example</p> <table border="1" data-bbox="743 997 1291 1129"> <thead> <tr> <th>GTIN</th> <th>Trade Item Unit Descriptor</th> <th>Total Quantity Of Next Lower Level Trade Item</th> <th>Net weight</th> <th>Net weight UoM</th> <th>Gross Weight</th> <th>Gross Weight UoM</th> </tr> </thead> <tbody> <tr> <td>4012345678900C</td> <td>Pallet</td> <td>100</td> <td>1000</td> <td>LB</td> <td>1350</td> <td>LB</td> </tr> <tr> <td>1012345678900C</td> <td>Case</td> <td>10</td> <td>10</td> <td>LB</td> <td>13</td> <td>LB</td> </tr> <tr> <td>0012345678900C</td> <td>Each</td> <td>n/a</td> <td>1</td> <td>LB</td> <td>1.2</td> <td>LB</td> </tr> </tbody> </table>	GTIN	Trade Item Unit Descriptor	Total Quantity Of Next Lower Level Trade Item	Net weight	Net weight UoM	Gross Weight	Gross Weight UoM	4012345678900C	Pallet	100	1000	LB	1350	LB	1012345678900C	Case	10	10	LB	13	LB	0012345678900C	Each	n/a	1	LB	1.2	LB	
GTIN	Trade Item Unit Descriptor	Total Quantity Of Next Lower Level Trade Item	Net weight	Net weight UoM	Gross Weight	Gross Weight UoM																									
4012345678900C	Pallet	100	1000	LB	1350	LB																									
1012345678900C	Case	10	10	LB	13	LB																									
0012345678900C	Each	n/a	1	LB	1.2	LB																									
	offerOnPack	<p>If the physical dimensions of the product change as a result of the promotion, then a new GTIN must be allocated. If only a token is added to the product, then no need to change GTIN.</p>																													
	openedTradeltemLifeSpan	<p>It is counted from the date of manufacture. The number of days must sell by is applicable to the each level. For example, when the master item is received it has an ultimate shelf life number of days on it, for example, for a ham the ultimate number of days is 180. The manufacturer advises the retailer that once it's open the item is good for 7 days. That 7 days is used to create the label for the consumer. When the consumer buys some of the ham, the label will have the best before date which is based on the 7 days.</p>																													
	orderingLeadTime	<p>Geographic distance from manufacturing/distribution point to delivery point may impact this value. Related to time unit field. Must be associated with valid unit of measure.</p>																													
	orderingUnitOfMeasure	<p>GS1 standards reference the UN/CEFACT Recommendation 20 list for the possible Unit of Measure. orderingUnitOfMeasure is a string and is optional.</p>																													

orderQuantityMaximum	Value can vary on Trading Partner dependent basis. Quantity means number of this trade item level hierarchy. This field is relevant at any trade item hierarchy level, but does not need to be populated for all levels.
orderQuantityMinimum	Value refers to the minimum order for this trade item hierarchy level. Cannot be a monetary figure. E.g. minimum order = \$100 of goods at cost. This field is relevant at any trade item hierarchy level, but does not need to be populated for all levels.
orderQuantityMultiple	If the order quantity minimum is 100, and the order quantity multiple is 20, then the product can only be ordered in quantities which are divisible by the order quantity multiple of 20, e.g. 100, 120, 140 200 etc.
orderSizingFactor	Assumes a standard size truck or lorry
packagingMaterialCodeListMaintenanceAgency	Dependent on field packagingMaterialCode
packagingMaterialDescription	Can be repeated for multi-material packaging and linked to packaging weight. As a description text field, this data element is repeatable for each language used and must be associated with a valid ISO language code. Dependent on the field packagingMaterialCode.
packagingTypeDescription	List of authorized text description values based on UN-ECE 21 Recommendations - EANCOM 7065. Class can be repeated.
palletTermsAndConditions	Used in conjunction with a pallet GTIN. List of authorized values based on EANCOM 7073, X12 DE102 and X12 DE399.
palletTypeCode	All values besides 27 (unspecified weight or dimension) including null would indicate the weight and dimensions of the trade item exclude the shipping platform.
partyReceivingPrivateData – represented by relationship to Party Identification.	There can be multiple instances of partyReceivingPrivateData. This is handled through the zero to many relationship between PrivateInformation and TradingPartnerNeutralTradeItemInformation. While the class ManufacturerOfTradeItem is optional, the party identification for the brand owner is required when a manufacturer is present.
pegHoleNumber	Required if the item has a peg hole. Multiple peg holes are allowed per product.
pegHorizontal	Required if the trade item is displayed on a peg board. Has to be associated with a valid UOM.
pegVertical	Required if the trade item is displayed on a peg board. Has to be associated with a valid UOM..
priceComparisonContentType	Additional Examples include: drained weight, per kilogram, per litre, ready to drink, ready to eat, including additives, millilitres excluding deposit, per piece, per dose, per load, per wash, per metre, per pound, per pint, per yard
priceComparisonMeasurement	This field is dependent on the population of priceComparisonContentType and is required when priceComparisonContentType is used.
publicationDate	There is only one release date per GTIN/TM/GLN combination. If a private trade item, the date can be trading partner dependent, if public, it is a trading partner neutral field. Date format is defined in ISO8601 –CCYY-MM-DD.

quantityOfInnerPack	An inner pack can only contain the same GTIN, and inner pack quantity must be constant.
quantityOfLayersPerPallet	Only used if the pallet has no GTIN. For more detailed information relating to Non GTIN pallet information please refer to the Trade Item Implementation guide. If any "GTIN + GLN + TM" in the synchronized hierarchy has tradeitemunitdescriptor = "PL" (pallet) or "MX" (mixed module) then the additional attributes cannot be populated on any "GTIN + GLN + TM" in the synchronized hierarchy.
quantityOfNextLevelTradeItem WithinInnerPack	An inner pack can only contain the same GTIN, and inner pack sizing must be constant. Change of inner pack doesn't change higher or lower level GTINs
quantityOfTradeItemsContaine dInACompleteLayer	Recommend when item is a pallet and is assigned a GTIN to use this attribute.
quantityOfTradeItemsPerPallet	Only used if the pallet has no GTIN. In this case it applies to the highest level of the item hierarchy and only 1 pallet configuration can be provided. It is highly recommended to use GTIN for Pallet identification.
quantityOfTradeItemsPerPallet Layer	Only used if the pallet has no GTIN. In this case it applies to the highest level of the item hierarchy. It is highly recommended to use GTIN for Pallet identification. For more detailed information relating to Non GTIN pallet information please refer to the Trade Item Implementation guide.
replacedTradeItemIdentification represented as a role in Trade Item Diagram	The trade item identification that is being permanently replaced must already be in the home data pool in order to ensure data integrity. The old trade item identification specified in this field should be discontinued.
retailPriceOnTradeItem	As monetary amount field, this data element must be associated with a valid unit of measure. GTIN allocation rules state that price is not a relevant criteria for changing a GTIN except when the price is printed as a part of the trade item's packaging.
seasonName	There can be a grouping of GTINs by season. Not covered by collection as a collection can have multiple seasons or vice versa, a season can have multiple collections.
securityTagLocation:	Used on Consumer Units only.
securityTagType:	Used on Consumer Units only.
sizeCodeListAgency	If size code is indicated, sizeCodeListAgency is required. Sector specific extension.
sizeDimension	The size dimension is specified using a decimal value and a valid Unit Of Measure (UOM). Either sizeDimension or descriptiveSizeDimension must be present, but not both. sizeDimension is a measurement value and is part of a mandatory choice (the other choice value being descriptiveSizeDimension).
stackingFactor	Factor will indicate how many levels the particular product may be stacked in. The counting of the levels will always commence at 1 not 0.

	startAvailabilityDateTime	<p>If the trade item is public only one date (CCYY-MM-DDTHH:MM:SS) is valid per GTIN, GLN, TM combination. If Item is private there can be more than 1 value per TM. Needs to be earlier than "end availability date" This date indicates when the trade item can first be ordered by the buyer from the information provider. This date can be trading partner dependent if the trade item or service is defined as private. It is trading partner neutral if the trade item/service is public. It does not indicate when this trade item becomes available to the end consumer (see first sale date) There is only one start availability date per GTIN/GLN/TM combination. Date format is ISO8601 – CCYY-MM-DDTHH:MM:SS.</p>	
	storageHandlingTemperatureMaximum	<p>When no other information is provided (temperatures to market or/and distribution centre), this value applies at any point of the supply chain. Temperature information is important for fresh trade item, dangerous goods and other trade items for which certain temperature limits are necessary for quality or safety reasons. Has to be associated with a valid UoM.</p>	
	storageHandlingTemperatureMinimum	<p>When no other information is provided (temperatures to market or/and distribution centre), this value applies at any point of the supply chain. Temperature information is important for fresh trade item, dangerous goods and other trade items for which certain temperature limits are necessary for quality or safety reasons. Has to be associated with a valid UoM.</p>	
	suggestedRetailPrice	<p>As monetary amount field, this data element must be associated with a valid unit of measures. Changes in this value do not require a change in GTIN. When the suggestedRetailPrice is provided for information and not on physically the package, it can be different per Target Market and becomes G / L.</p>	
	targetMarketCountryCode	<p>ISO 3166-1 format 3 digit numerical; following AIDC guidelines. This information drives data synchronization rules linked to global/local, local status. Combination of this field +GTIN+GLN uniquely identifies a set of attributes or a trade item. This is a repeatable field. This field is mandatory within the Global Data Synchronization process.</p>	
	targetMarketSubdivisionCode	<p>ISO 3166-2 format 3 digit numerical/3 character alpha which represents country and subcountry code; following AIDC guidelines. This information drives data synchronization rules linked to global/local, local status. This optional field helps further define trade item availability. The target market code consists of a country code and an optional subdivision code. A subdivision code must be used in tandem with a corresponding higher level country code. (e.g. Ohio with US). There can only be one targetMarketSubdivisionCode per targetMarketCountryCode.</p>	
	taxAmount	<p>As monetary amount field, this data element is must be associated with a valid unit of measure. taxRate and taxAmount are mutually exclusive for each tax type.</p>	

taxRate	This will vary by target market. taxRate and taxAmount are mutually exclusive for each tax type. Percentage is implicit.
taxTypeCode	This will vary by target market. Repeatable field inside each possible target market.
tradeItemCountryOfOrigin	<p>This information is for customs purpose in case of importation or legal requirements regarding customer information for some categories of trade item (e.g. meats and fruits) Information can be repeated if multiple countries are valid. In this case, the buyer will only know the actual country of origin at the time of delivery. Code list ISO 3166-1 code.</p> <p>ISO 3166-1 code 097 is used to represent the European Union. Note: This rule does not extend the values of the ISO 3166-1 Country Code for any other attributes which reference ISO 3166-1.</p>
tradeItemDescription	<p>This field is automatically generated by the concatenation of the "brand", " sub-brand", "functional name" and "variant". Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code .</p> <p>This is a derived attribute resulting from the concatenation of 4 other attributes. When implemented, these four attributes may be concatenated as appropriate. Item description is part of the set of core data that will be stored in the Registry.</p>
tradeItemGroupIdentificationCode	Manufacturer assigned. This code is typically assigned to multiple GTINs.
tradeItemGroupIdentificationDescription	If trade itemGroupIDCode is present, description must be present. A description text field, this data element is repeatable for each language used and linked to data element "Description language".
tradeItemIdentificationOfNextLowerLevelTradeItem (Represented as association of ChildTradeItem Class to TradeItemIdentification Class).	Allowed for more than 1 reference to lower levels to allow for the registration of Mixed Assortments. The sequence of entering GTINs is important when a next lower level GTIN is to be linked. The next lower level GTIN must already exist, therefore the order of trade items to be entered should be from lowest to highest e.g. consumer, then intermediate, then traded, etc. While there can be multiple child trade items, there can only be one trade item identification per child item.
Variant	This is different from the Global Product Classification variant. Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code.
Width	Measurements are relative to the type of trade items being measured. There are two cases described by the GDSN Packaging Measurement Rules: consumer trade items and non consumer trade items. Make sure you use the right specifications.
All attributes with Multi-Measurement data type in Core Trade Item and in its associated extensions.	<ul style="list-style-type: none"> Data Sources should be permitted to send either metric or imperial measurements, depending on the Target Market. It is the Data Source decision which measurement system to choose in the Target Market. For each Target Market, there will be only one value, as determined by the Data

		<p>Source.</p> <ul style="list-style-type: none">• The Data Source should provide the measurement system that is` required in a specific target market.• This rule does not cover netContent which allows for the application of multiple measurements for business reasons.	
--	--	---	--

4.3. Business Transaction Activity Diagram(s)

Not Available

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

Not Available

5. Information Model (Including GDD Report)

5.1. GDD Report

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
ExternalFileLink				External File Link. Details	Information specifying a link to a file external to the message itself.		{ref4}
	contentDescription			External File Link. Content Description. Language_Text	Free form description of the content of the file.	0..1	{ref4}
	fileEffectiveEndDateTime			External File Link. File Effective End Date Time. Date Time	The date this image ceases to be the current image for this trade item.	0..1	{ref4}
	fileEffectiveStartDateTime			External File Link. File Effective Start Date Time. Date Time	The date this image is the current image for this trade item.	0..1	{ref4}
	fileFormatDescription			External File Link. File Format Description. Language_Text	Free form description of the format of the file.	0..1	{ref4}
	fileFormatName			External File Link. File Format Name. Text	The name of the file format. Examples: PDF; JPEG; BMP	0..1	{ref4}
	fileName			External File Link. File Name. Text	The name of the file that contains the external information.	0..1	{ref4}
	uniformResourceIdentifier			External File Link. Uniform Resource Identifier. Text	Simple text string that refers to a resource on the internet, URLs may refer to documents, resources, people, etc.	0..1	{ref4}
GDSNTradeItemClassification				GDSN_ Product Classification. Details	Not Available		{ref1}
	classificationCategoryCode			GPC_ Product Classification. Class. Identifier	A code that identifies a category in the GPC product classification.	1..1	{ref1}
	classificationCategoryDefinition			GPC_ Product Classification. Class Description. Text	System generated explanation of Global EAN.UCC category.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	classificationCategoryName			GPC_Product Classification. Class Name. Text	The system generated text equivalent of the Global EAN.UCC classification category code.	0..1	{ref1}
		additionalClassification	ClassificationCategory	GPC_Product Classification.Association. Non-GPC_Product Classification	Provides category information based on alternate classification schemas chosen in addition to EAN.UCC classification schema.	0..*	{ref1}
			GDSNTradeItemClassificationAttributeType	GPC_Product Classification.Association. GPC_Product Classification Attribute	Contains information which identifies the GPC classification attribute for a trade item.	0..7	{ref1}
ClassificationCategory				Non-GPC_Product Classification. Details	Provides details on product classifications used in addition to the Global EAN.UCC schema.		{ref1}
	additionalClassificationAgencyName			Non-GPC_Product Classification. Agency Name. Text	!! Text name of the additional external classification agency whose schema is being provided in addition to the Global EAN.UCC schema. Required if additional classification schema fields are populated	1..1	{ref1}
	additionalClassificationCategoryCode			Non-GPC_Product Classification. Class. Identifier	!! Category code based on alternate classification schema chosen in addition to EAN/UCC classification schema.	1..1	{ref1}
	additionalClassificationCategoryDescription			Non-GPC_Product Classification. Class Description. Text	!! Description of the additional classification bundle (code/agency + description).	0..1	{ref1}
GDSNTradeItemClassificationAttributeType				GPC_Product Classification Attribute. Details	Global EAN.UCC classification attribute code		{ref1}
	eANUCCClassificationAttributeTypeCode			GPC_Product Classification Attribute. Type. Identifier	Unique 8 digit code which identifies the Global EAN.UCC classification attribute.	1..1	{ref1}
	eANUCCClassificationAttributeTypeDefinition			GPC_Product Classification Attribute. Type Definition. Text	System generated explanation of Global EAN.UCC attribute.	0..1	{ref1}
	eANUCCClassificationAttributeTypeName			GPC_Product Classification Attribute. Type Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute code	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	GDSNTradeItemClassificationAttributeValue	GPC_ Product Classification Attribute. Association. GPC_ Product Classification Attribute Value	None	1..1	{ref1}
GDSNTradeItemClassificationAttributeValue				GPC_ Product Classification Attribute Value. Details	Provides the actual value of the Global Product Classification attribute.		{ref1}
	eANUCCClassificationAttributeValueCode			GPC_ Product Classification Attribute Value. Code. Identifier	Unique 8 digit code which identifies the Global EAN.UCC classification attribute value.	1..1	{ref1}
	eANUCCClassificationAttributeValueName			GPC_ Product Classification Attribute Value. Name. Text	The system generated text equivalent of the Global EAN.UCC classification attribute value code.	0..1	{ref1}
ChildTradeItem				Child_ Trade Item. Details	Not Available		{ref1}
	quantityofNextLowerLevelTradeItem			Child_ Trade Item. Quantity. Quantity	The number of one child trade item (as identified by the association of ChildTradeItem class to TradeItemIdentification class) contained by the parent trade item. The child trade item must be in the hierarchy level immediately below the parent trade item.	1..1	{ref1}
		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	{ref1}
InformationProvider				Information Provider_ Party. Details	!! This class is part of the Trade Item Information Class		{ref1}
	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	{ref1}
		informationProvider	PartyIdentification	Information Provider_ Party. Identification. Party Identification	None	1..1	{ref1}
NextLowerLevelTradeItemInformation				Next Lower Level_ Trade Item Containment. Details	!! This class originates in the root class TradeItem		{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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	{ref1}
	totalQuantityOfNext LowerLevelTradeItem			Next Lower Level_ Trade Item Containment. Total_ Quantity. Quantity	This represents the Total quantity of next lower level trade items that this trade item contains.	1..1	{ref1}
		None	ChildTradeItem	Next Lower Level_ Trade Item Containment. Association. Child_ Trade Item	None	1..*	{ref1}
TradeItem				Trade Item. Details	A Trade Item is any product or service upon which there is a need to retrieve pre-defined information and that may be priced, ordered or invoiced at any point in any supply chain. The term "trade item" is not to be confused with the legacy term "traded item" (now referred to within the General EAN.UCC Specifications as 'standard trade item group' which can mean a specific product containment level, which is also called case. "Trade item" can represent any level of product containment, and also can represent a service.		{ref1}
	tradeItemUnitDescriptor			Trade Item. Unit Descriptor. Unit Descriptor_ Code	Describes the hierarchical level of the trade item. TradeItemUnitIndicator is mandatory. Examples: "CASE" , "PALLET" . For information about the usage of this attribute refer to Appendix C.	1..1	{ref1}
		NextLowerLevelTradeItemInformation	NextLowerLevelTradeItemInformation	Trade Item. Association. Next Lower Level_ Trade Item Containment	Not Available	0..1	{ref1}
		None	TradeItemIdentification	Trade Item. Association. Trade Item Identification	None	1..1	{ref1}
		replacedTradeItemIdentification	TradeItemIdentification	Trade Item. Replaced. Trade Item Identification	Indicates the trade item identification of an item that is being permanently replaced by this trade item.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeItemInformation	Trade Item. Association. Trade Item Information Group	None	1..1	{ref1}
TradeItemDescriptionInformation				Trade Item Description. Details	!! This class is part of the Trade Item Information Class		{ref1}
	brandName			Trade Item Description. Brand. Text	!! The recognisable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer.	1..1	{ref1}
	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	{ref1}
	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	{ref1}
	tradeItemFormDescription			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..*	{ref1}
	tradeItemGroupIdentificationCode			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	{ref1}
	<<deprecate>>linkToExternalDescription			Trade Item Description. Link To External Description. Text	!!The link (e.g. URL) to the external description.	0..1	{ref1}
		descriptionShort	MultiDescription	Trade Item Description. Short_ Description. Multi-language Description	A free form short length description of the trade item that can be used to identify the trade item at point of sale. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-30.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		functionalName	MultiDescription	Trade Item Description. Functional_ Name. Multi-language Description	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35.	1..1	{ref1}
		invoiceName	MultiDescription	Trade Item Description. Invoice_ Name. Multi-language Description	Free form information provider assigned trade item description designed to match trade item/service description as noted on invoices. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..1	{ref1}
		tradeItemGroupIdentificationDescription	MultiDescription	Trade Item Description. Group. Multi-language Description	The text description of the value represented by the trade itemGroupIDCode.	0..1	{ref1}
		variant	MultiDescription	Trade Item Description. Variant. Multi-language Description	Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavour, fragrance, taste. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..*	{ref1}
		None	TradeItemDescription	Trade Item Description. Association.Trade Item Description	The concatenated product description of a product or service. This is a derived attribute resulting from the concatenation of 4 other attributes. When implemented, these four attributes may be concatenated as appropriate. Item description is part of the set of core data that will be stored in the Registry.	0..*	{ref1}
		None	TradeItemExternalInformation	Trade Item Description. Association.Trade Item Description	Information on a external files related to the trade item.	0..*	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	AdditionalTradeItemDescription	Trade Item Description. Association. Additional_TradeItemDescription	Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Colour, and Fragrance. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-350, as defined in the Trade Item BRD.	0..*	{ref1}
TradeItemDocument				Trade Item Alignment. Details	!! This is the root class of the Trade Item Message.		{ref1}
		None	Document	Trade Item Alignment. Inheritance_Association. Electronic_Document	None	1..1	{ref1}
		tradeItemDocumentIdentification	EntityIdentification	Trade Item Alignment. Association. Entity Identification	!! This is a role from the TradeItemDocument root class. The destination class is EntityIdentification.	1..1	{ref1}
		None	TradeItem	Trade Item Alignment. Association. TradeItem	None	1..1	{ref1}
TradeItemIdentification				Trade Item Identification. Details	None		{ref1}
	globalTradeItemNumber			Trade Item Identification. Primary_Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1	{ref1}
		None	AdditionalTradeItemIdentification	Trade Item Identification. Additional. Non GTIN_TradeItemIdentification	A trade item identifier, usually associated with a specific business need, that is in addition to the GTIN, for example, a buyer's, or seller's item number. The additional identification should be associated with a specific business need.	0..*	{ref1}
TradeItemExternalInformation				Trade Item External Information. Details	Links to external files that contain additional information about the trade item.		{ref4}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	typeOfInformation			Trade Item External Information. Type Of Information. Trade Item External Information_Code	Code identifying the purpose of the information contained in the external file. Example: Image of product label, marketing information, planogram.	1..1	{ref4}
		inheritance	ExternalFileLink	Trade Item External Information. Inheritance. External File Link	External file link details for trade item external information.	1..1	{ref4}
TradeItemInformation				Trade Item Information Group. Details	!! This class is part of the Trade Item Class.		{ref1}
		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.	0..*	{ref1}
		classificationCategoryCode	GDSNTradeItemClassification	Trade Item Information Group. Classification Category Code_Association. GDSN_Product Classification	Identifies a category in the GPC and other product classifications.	0..1	{ref1}
		informationProviderOfTradeItem	InformationProvider	Trade Item Information Group. Association. Information Provider_Party	The GLN and additional identification(s) that identify the party providing the information about the trade item.	1..1	{ref1}
		None	PaymentTerms	Trade Item Information Group. Association. Payment Terms	!! This is a reusable class referenced in the Item BRD as part of the Trade Item Information class.	0..*	{ref1}
		None	TargetMarketInformation	Trade Item Information Group. Association. Named_Target Market	None	0..*	{ref1}
		None	TradeItemDescriptionInformation	Trade Item Information Group. Association. Trade Item Description	None	1..1	{ref1}
		None	TradingPartnerNeutralTradeItemInformation	Trade Item Information Group. Association. Trading Partner Neutral_Trade Item	None	1..1	{ref1}

5.1.1. Trading Partner Neutral Trade Item Information

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
BrandOwnerOfTradeItem				Brand Owner_ Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class		{ref1}
	nameOfBrandOwner			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	{ref1}
		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	{ref1}
DangerousGoodsTechnicalName				Dangerous Goods Technical Name. Details	Provides the dangerous goods technical information.		{ref1}
	text			Dangerous Goods Technical Name. Text. {1..200}_ Text	The dangerous goods technical name represented in textual format.	1..1	{ref1}
HazardousInformationDetail				Hazardous Item Description Group. Details	Provides the details of hazardous information.		{ref1}
	classOfDangerousGoods			Hazardous Item Description Group. 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..*	{ref1}
	dangerousGoodsAMarginNumber			Hazardous Item Description Group. Hazardous Goods_ A Margin Number. Identifier	Information, whether for the base trade item or further packaging trade item a dangerous goods a-margin number does exist in the European dangerous goods agreements (and in the respective national dangerous goods legislation), thus facilitations for the transport of defined limited quantity by road or rail are possible or not. If they are possible, they must be indicated, whether they are used by the data supplier.	1..*	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	dangerousGoodsHazardousCode			Hazardous Item Description Group. 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..*	{ref1}
	dangerousGoodsPackingGroup			Hazardous Item Description 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..*	{ref1}
	dangerousGoodsShippingName			Hazardous Item Description Group. Hazardous Goods_Name. Identifier	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..*	{ref1}
	unitedNationsDangerousGoodsNumber			Hazardous Item Description Group. 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..*	{ref1}
		None	DangerousGoodsTechnicalName	Hazardous Item Description Group. Association. Dangerous Goods Technical Name	Provides the dangerous goods technical name.	1..*	{ref1}
ManufacturerOfTradeItem				Manufacturer_Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class		{ref1}
	nameOfManufacturer			Manufacturer_Party. Name. Text	Descriptive name of the manufacturer of the trade item.	0..1	{ref1}
		manufacturer	PartyIdentification	Manufacturer_Party. Association. Party Identification	None	1..1	{ref1}
MarketingInformation				Trade Item_Marketing. Details	Not Available		{ref2}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	campaignEndDate			Trade Item_ Marketing. End_ Campaign Date Time. Date Time	The date suggested by the supplier for the campaign to end. It indicates the end of a marketing campaign.	0..1	{ref2}
	campaignName			Trade Item_ Marketing. Campaign_Name. Language_ Text	Name of the sales or marketing campaign, for which the textile trade item is intended. Input of user-defined text in order to assign the item to a specific marketing campaign.	0..1	{ref2}
	campaignStartDate			Trade Item_ Marketing. Start_ Campaign Date Time. Date Time	The date suggested by the supplier for the campaign to start. It indicates the beginning of a marketing campaign.	0..1	{ref2}
	specialItemCode			Trade Item_ Marketing. Special Item Code. Special Item Code_ Code	This element identifies specific items for promotional or special tracking purposes.	0..*	{ref2}
	tradeItemFeatureBenefit			Trade Item_ Marketing. Feature_Benefit. Language_ Text	Element for consumer facing marketing content to describe the key features or benefits of the style suitable for display purposes.	0..*	{ref2}
	tradeItemMarketingMessage			Trade Item_ Marketing. Marketing_Message. an1000_ Language_ Text	Marketing message associated to the Trade item.	0..1	{ref2}
MaterialComposition				Product_ Material Composition. Details	None		{ref2}
	materialAgencyCode			Product_ Material Composition. Material_Agency. Material Agency Code_ Code	This element indicates the agency that is maintaining the Trade Item Material codes. This may include a specific code list.	0..1	{ref2}
	materialContent			Product_ Material Composition. Material Content_ Description. Text	This element is used to indicate the material composition. This element is used in conjunction with the percentage.	0..1	{ref2}
	materialPercentage			Product_ Material Composition. Material_Percentage. Percent_ Numeric	Net weight percentage of a product material of the first main material. The percent-ages must add up to 100.	0..1	{ref2}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		materialCode	MultiDescription	Product_ Material Composition. materialCode_ Association. Multi-language Description	This element indicates the product material code that gives the composition of the trade item's first main material up to six material short codes that can be given in descending order of their respective percentages.	0..1	{ref2}
MaterialSafetyData				Material Safety Data Sheet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref2}
	materialSafetyDataSheetNumber			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	{ref2}
NonPackagedSizeDimension				Apparel_ Home Fashions_ Product Size Group. Details	None		{ref2}
	descriptiveSizeDimension			Apparel_ Home Fashions_ Product Size Group. Choice_ Dimension_ Description. Text	The textual representation of the size dimension specified by the size type.	1..1	{ref2}
	sizeDimension			Apparel_ Home Fashions_ Product Size Group. Choice_ Size_ Dimension. Measure	The numerical size measurement of the size dimension specified by the size type.	1..1	{ref2}
	sizeSystem			Apparel_ Home Fashions_ Product Size Group. Size_ System. Size System Code_ Code	This is the system that is being used to define the size. It is used in conjunction with size group to completely de-fine the size dimension.	0..1	{ref2}
	sizeType			Apparel_ Home Fashions_ Product Size Group. Size_ Type. Size Type Code_ Code	The type of size dimension being specified by the size measurement.	1..1	{ref2}
NonPackageTradeItemDimension				Apparel_ Home Fashions_ Product Size. Details	None		{ref2}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	sizeGroup			Apparel_ Home Fashions_ Product Size. Size_ Group Type. Size Group Code_ Code	A description of the variable size that is necessary to uniquely specify the size of the item in conjunction with the non-packaged size dimension.	0..1	{ref2}
		None	NonPackagedSize Dimension	Apparel_ Home Fashions_ Product Size. Association. Apparel_ Home Fashions_ Product Size Group	None	1..*	{ref2}
OrderingAndSellingUnitOfMeasure				Ordering_ Selling_ Trade Item Unit Information. Details	None		{ref3}
	orderingUnitOfMeasure			Ordering_ Selling_ Trade Item Unit Information. Ordering_ Transaction Unit Of Measure. Text	The alternate Unit of Measure of how Trade Items are ordered by the Retailer under one Unit of Measure, but sold under another Unit of Measure.	0..1	{ref3}
	sellingUnitOfMeasure			Ordering_ Selling_ Trade Item Unit Information. Selling_ Transaction Unit Of Measure. Text	Describes the measurement used for selling unit of the Trade Item to the end consumer. A Trade Item may have only one Unit of Measure.	0..1	{ref3}
OrganicTradeItemCharacteristics				Organic_ Trade Item. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	organicClaimAgency			Organic_ Trade Item. Claim_ Agency Name. Text	A Governing body that creates and maintains standards related to organic products.	1..*	{ref1}
	organicTradeItemCode			Organic_ Trade Item. Class. Identifier	!! Used to indicate the organic status of a trade item or of one or more of its components.	1..1	{ref1}
PackagingMarking				Packaging Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	isPackagingMarkedReturnable			Packaging Marking. Returnable_ Marking. Indicator	Trade item has returnable packaging. This is a yes/no (Boolean) where yes equals package can be returned. Attribute applies to returnable packaging with or without deposit.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	isPackagingMarkedWithIngredients			Packaging Marking. Ingredients_ Marking. Indicator	Trade item packaging contains information pertaining to its ingredients. trade item ingredients are required to be shown on the trade item (normally at base trade item level). This is a yes/no (Boolean) where yes equals marked with ingredients.	0..1	{ref1}
	isPriceOnPack			Packaging Marking. Is Price On Pack. Indicator	Indication of whether there is a retail price physically on or attached to the trade item packaging of the trade item by the manufacturer or information provider.	0..1	{ref4}
	offerOnPack			Packaging Marking. offerOnPack. Text	Contains details of any on pack product offer (consumer or traded).	0..1	{ref1}
	packageMarksDietAllergen			Trade Item_ Packaging Marking. Diet Allergen_ Marked As. Package Marks Diet Allergen Code List_ Code	Indication of which dietary or allergen marks that are on the package.	0..*	{ref1}
	packageMarksEnvironment			Trade Item_ Packaging Marking. Environment_ Marked As. package Marks Environment Code List_ Code	Indication of which environmental marks (e.g. recycling schemes) that are on trade item package.	0..*	{ref1}
	packageMarksEthical			Trade Item_ Packaging Marking. Ethical_ Marked As. Package Marks Ethical Code List_ Code	Indication of which ethical trading marks that are on the package.	0..*	{ref1}
	packageMarksFreeFrom			Trade Item_ Packaging Marking. Free From_ Marked As. Package Marks Free From Code List_ Code	Indication of which free-from marks that are on the package.	0..*	{ref1}
	packagingMarkedExpirationDateType			Trade Item_ Packaging Marking. Date Expiration Type_ Marked As. Packaging Marked Expiration Date Code_ Code	Indicates the type of expiration date marked on the packaging.	0..*	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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: Aluminium can be marked as recyclable.	0..1	
PackagingMaterial				Packaging Material. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	packagingMaterialCode			Packaging Material. Type. Packaging Material_ Code	The code identifying the type of package used as a container of the trade item.	0..1	{ref1}
	packagingTermsAndCondition			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	{ref1}
	returnablePackageDepositCode			Packaging Material. Returnable Package_ Deposit Code. Text	In some markets the deposit information is specified by a GTIN giving the type of returnable package on which a deposit is charged. Each deposit code is associated with an amount specified elsewhere. The enumeration list is maintained externally.	0..1	{ref1}
	returnablePackageDepositAmount			Packaging Material. Returnable Package_ Deposit_ Amount. Amount	The monetary amount for the individual returnable package.	0..1	{ref1}
	packagingMaterialCodeListMaintenanceAgency			Packaging Material. Code List Maintenance Agency. Text	The agency or agencies controlling the packaging code lists of each country.	0..1	{ref1}
	depositValueEffectiveDate			Packaging Material. Effective_ Deposit Value Date. Date Time	First date that the deposit value is valid for the deposit code. CCYYMMDD.	0..1	{ref1}
	depositValueEndDate			Packaging Material. End_ Deposit Value Date. Date Time	Last date that the deposit value in the currency is valid for the deposit code.	0..1	{ref1}
		packagingMaterialDescription	MultiDescription	Packaging Material. Description. Multi-language Description	The system generated text description equivalent of the packaging material code. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		packagingMaterialCompositionQuantity	MultiMeasurementValue	Packaging Material. Composition Quantity. Multi-unit Measure	The quantity of the packaging of the trade item. Can be weight, volume or surface, can vary by country.	0..1	{ref1}
PackagingType				Packaging. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	packagingTypeCode			Packaging. Type. Packaging Type_ Code	The code identifying the type of package used as a container of the trade item.	1..1	{ref1}
	packagingTypeDescription			Packaging. Description. Text	System generated text description of the type of packaging used for the trade item.	0..1	{ref1}
	packagingWeight			Packaging. Type.Packaging_Weight.Measure	Used to identify the measurement of the packaging weight of the trade item.	0..1	{ref4}
PegMeasurements				Peg Location. Details	This class enables the description of multiple peg holes and their locations for a trade item.		{ref1}
	pegHoleNumber			Peg Location. Location_ Number. Numeric	Used to indicate the peg hole numbers when more than one hole is present in the product or packaging. Peg holes should be numbered from the upper left corner of the front of the package to the bottom right corner.	1..1	{ref1}
		pegHorizontal	MultiMeasurementValue	Peg Location. Peg_ Horizontal. Multi-unit Measure	Used to indicate the horizontal distance from the left edge of the trade item to the centre 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	{ref1}
		pegVertical	MultiMeasurementValue	Peg Location. Peg_ Vertical. Multi-unit Measure	Used to indicate the vertical distance of a peg hole measured from the bottom edge of the trade item to the top of the peg hole. Peg holes are inserted when the trade item is displayed on a pegboard. Example: "2 INH." Information is required if the trade item is displayed on a peg board.	1..1	{ref1}
PriceOnTradeItem				Price_ Packaging Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class		{ref1}
		None	retailPriceOnTradeItem	Price_ Packaging Marking. Association.Trade Item Retail Price	!! The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field isPriceOnPack.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
PrivateInformation				Private Data Recipient_Party. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class		{ref1}
		partyReceivingPrivateData	PartyIdentification	Private Data Recipient_Party. Association. Party Identification	None	1..1	{ref1}
Season				Trade Item_ Season. Details	None		{ref2}
	seasonalAvailabilityEndDate			Trade Item_ Season. Seasonal_End_Availability Date. CCYYMMDD hhmm_ Date Time	Indicates the end date of the trade item's seasonal availability.	0..1	{ref2}
	seasonalAvailabilityStartDate			Trade Item_ Season. Seasonal_Start_Availability Date. CCYYMMDD hhmm_ Date Time	Indicates the start date of the trade item's seasonal availability.	0..1	{ref2}
	seasonCalendarYear			Trade Item_ Season. Season_ Calendar Year. Text	This element indicates the calendar year in which the trade item is seasonally available.	0..*	{ref2}
	seasonName			Trade Item_ Season. Season_ Name_ Description. Text	Element defines the season applicable to the item.	0..*	{ref2}
	seasonParameter			Trade Item_ Season. Season_ Parameter. Season Parameter Code_ Code	Indication of the season, in which the trade item is available, i.e. assignment to one of the following collection periods: spring/summer, autumn/ winter or all year around.	0..*	{ref1}
SecurityTagInformation				Security Tag. Details	Not Available		{ref1}
	securityTagLocation			Security Tag. Tag_ Location. Security Tag Location Code Type_ Code	This is a code to indicate where the EAS tag is located on the Trade Item. Values include On outside of Trade Item, Concealed inside Trade Item, Integrated Inside Trade Item.	0..1	{ref2}
	securityTagType			Security Tag. Security_ Tag Type. Security Tag Type Code_ Code	This is a code to indicate the type of EAS tag located on the Trade Item. Values include Acousto-Magnetic, Electro-Magnetic, Ink or dye, Microwave, Radio Frequency.	0..1	{ref2}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
ShipFromLocation				Ship From Location. Details	A location from which the trade item may be shipped, or picked up by the retailer.		{ref4}
	ShipFromLocationIdentification			Ship From Location. Ship From Location Identification. GLN_Identifier	The GLN identifier of a location from which the trade item may be shipped, or picked up by the retailer.	1..1	{ref4}
	ShipFromLocationName			Ship From Location. Ship From Location Name. Text	The name of a location from which the trade item may be shipped, or picked up by the retailer.	0..1	{ref4}
TaxAgency				Tax Agency. Details	Not Available		{ref1}
	taxAgencyCode			Tax Agency. Tax Agency Code. Text	Identifies the agency responsible for the tax code list. For example, X1 = BE, ICODIF/EAN Belgium - Luxembourg.	1..1	{ref1}
	taxTypeCode			Tax Agency. Tax Type Code. Text	Identification of the type of duty or tax or fee applicable to the trade item. This will vary by target market.	1..1	{ref1}
	taxTypeDescription			Tax Agency. Tax Type Description. Text	Automatically generated text description of tax type code. For example, "Taxes sure les supports audio".	0..1	{ref1}
TargetConsumer				Trade Item_ Target Consumer. Details	None		{ref1}
	targetConsumerAge			Trade Item_ Target Consumer. Consumer Age_ Description. Text	Identifies the target consumer age range for which a trade item has been designed.	0..1	{ref1}
	targetConsumerGender			Trade Item_ Target Consumer. Target Consumer_ Gender Code. Target Consumer Gender Code_ Code	Identifies the target consumer gender for which a product has been designed.	0..1	{ref1}
TradeItemColorDescription				Trade Item Colour. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	colorCodeListAgency			Trade Item Colour. Colour Code_ Agency. Text	The parties controlling the color code lists. Dependent on colour code value. If colour code is indicated, colorCodeListAgency is required.	1..1	{ref1}
	colorCodeValue			Trade Item Colour. Code. Colour_ Code	The code list required to identify the colour of the trade item. No ISO standards exist. Each industry needs to determine which code agency is will use.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		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. 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.	0..1	{ref1}
TradeItemCoupon				Trade Item Coupon. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	couponFamilyCode			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	{ref1}
TradeItemDateInformation				Trade Item Date Group. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	cancelledDate			Trade Item Date Group. Cancelled_ Date. CCYYMMDD_ Date Time	Communicates cancellation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation.	0..1	{ref1}
	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. May be related to geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS.	0..1	{ref1}
	discontinuedDate			Trade Item Date Group. Discontinued_ Date. CCYYMMDD_ Date Time	!! Communicate the date on which the trade item is no longer to be manufactured. Allows the reuse of the GTIN after 48 months with the explicit exception of Apparel, being 30 months and the implicit exception for specialty products (e.g., steel beams).	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	effectiveDate			Trade Item Date Group. Effective_ Date. CCYYMMDD_ Date Time	!! The date on which the information contents of the master data version are valid. Valid = correct or true. This effective date can be used for initial trade item offering, or to mark a change in the information related to an existing trade item. This date would mark when these changes take effect.	1..1	{ref1}
	endAvailabilityDate			Trade Item Date Group. End Availability_ Date. CCYYMMDD hhmm_ Date Time	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.	0..1	{ref1}
	lastChangeDate			Trade Item Date Group. Last Change_ Date. CCYYMMDD hhmm_ Date Time	!! A system generated value identifying the date and time a record was last updated. This field allows the data pool to control the trade item data version, and allows the information user to determine if trade item data should be downloaded. Date format CCYY-MM-DDTHH:MM:SS.	1..1	{ref1}
	publicationDate			Trade Item Date Group. Publication_ Date. CCYYMMDD_ Date Time	A date on which all static data associated with the trade item becomes available for viewing and synchronisation.	1..1	{ref1}
	startAvailabilityDate			Trade Item Date Group. Start Availability_ Date. CCYYMMDD hhmm_ Date Time	The date (CCYY-MM-DDTHH:MM:SS) from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services.	1..1	{ref1}
	endDateMaximumBuyingQuantity			Trade Item Date Group. Maximum Buying Quantity End_ Date. Date Time	The end date for when the maximum buying quantity is no longer available to the trading partner.	0..1	{ref1}
	endDateMinimumBuyingQuantity			Trade Item Date Group. Minimum Buying Quantity End_ Date. Date Time	The end date for when the minimum buying quantity is no longer available to the trading partner	0..1	{ref1}
	endDateTimeOfExclusivity			Trade Item Date Group. Exclusivity End_ Date. Date Time	The Date & Time at which a product is no longer exclusive to that trading partner.	0..1	{ref1}
	firstOrderDate			Trade Item Date Group. First Order_ Date. Date Time	It indicates the earliest date that an order can be placed for the trade item.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	firstShipDate			Trade Item Date Group. First Ship_ Date. Date Time	It indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.	0..1	{ref1}
	lastOrderDate			Trade Item Date Group. Last Order_ Date. Date Time	It indicates the latest date that an order can be placed for the trade item.	0..1	{ref1}
	lastShipDate			Trade Item Date Group. Last Ship_ Date. Date Time	It indicates the latest date that the trade item can be shipped. This is independent of any specific ship-from location.	0..1	{ref1}
	startDateMaximumBuyingQuantity			Trade Item Date Group. Maximum Buying Quantity Start_ Date. Date Time	The start date for when the maximum buying quantity is available to the trading partner.	0..1	{ref1}
	startDateMinimumBuyingQuantity			Trade Item Date Group. Minimum Buying Quantity Start_ Date. Date Time	The start date for when the minimum buying quantity is available to the trading partner.	0..1	{ref1}
TradeItemFinish				Product Finish. Details	n.a		{ref1}
	tradeItemFinishDescription			Product Finish. Finish_ Description. Text	Additional Attribute which defines the outer surface/appearance of the product.	0..1	{ref1}
TradeItemHandlingInformation				Trade Item Handling. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	consumerUsageStorageInstructions			Trade Item Handling. consumerUsageStorageInstructions . Description	Expresses in text the consumer storage and usage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labelled on the pack. Instructions may refer to a suggested storage temperature, a specific storage requirement or a reference to environment or duration. Examples include: "Refrigerate After Opening", "Consume within 4 days" "Keep Out Of Direct Sunlight" ,"Store at an Ambient Temperature", "Store in a Clean, Cool, Dry Place", "Store Away From Sunlight, Strong Odours and Chemicals", "Keep in a Clean, Cool, Dry and Odourless Place Away From Direct Sunlight and Freezing Temperatures", "Keep in a Clean, Cool, Dry and Odourless Place Away From Direct Sunlight", "Before opening store at + 5°C+ 30°C", "After Opening Keep Refrigerated (+5°C) and Consume Within 48 hours", "Drink Chilled", "Store in a Cool Dry Place", "Refrigerate After Opening. Can Be Kept in the Fridge For 3 Months".	0..*	{ref4}
	minimumTradeItemLifespanFromTimeOfArrival			Trade Item Handling. Lifespan. Duration_ Measure	The period of days, guaranteed by the manufacturer, before the expiration date of the trade item, based on arrival to a mutually agreed to point in the buyers distribution system. Can be repeatable upon use of GLN.	0..1	{ref1}
	minimumTradeItemLifespanFromTimeOfProduction			Trade Item Handling. Minimum From Production Time_ Trade Item_ Lifespan. Measure	The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.	0..1	{ref1}
	openedTradeItemLifespan			Trade Item Handling. Opened Trade Item Life Span. Integer_ Numeric	The number of days the trade item that had been opened can remain on the shelf and must then be removed.	0..1	{ref1}
	stackingFactor			Trade Item Handling. Stacking_ Factor. Integer_ Numeric	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		handlingInstructionsCode	HandlingInstructionsCode	Trade Item Handling. Instruction.Association. Handling Instruction Code	Defines the information and processes needed to safely handle the trade item. Handling instructions is composed of both text and a language code. The language for text is specified using the two digit ISO 639-1988 list, for example, English is EN and French is FR. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-5, as defined in the Trade Item BRD.	0..*	{ref1}
		stackingWeightMaximum	MultiMeasurementValue	Trade Item Handling. Stacking Maximum_ Weight. Multi-unit Measure	The maximum admissible weight that can be stacked on the trade item. This uses a measurement consisting of a unit of measure and a value. This will be used for transport or storage to allow user to know by weight how to stack different trade item one on top of the other.	0..1	{ref1}
TradeItemHazardousInformation				Hazardous Goods. Details	!! This reusable class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	dangerousGoodsRegulationCode			Hazardous Goods. Regulation. Identifier	An indication of the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.	1..1	{ref1}
		None	HazardousInformationDetail	Hazardous Goods. Association. Hazardous Item Description Group	This information on HazardousInformationDetail for TradeItemHazardousInformation.	1..1	{ref1}
		flashPointTemperature	MultiMeasurementValue	Hazardous Goods. Flash Point_ Temperature. Multi-unit Measure	The lowest temperature at which a substance gives off a sufficient vapour to support combustion. This uses a measurement consisting of a unit of measure and value.	0..1	{ref1}
TradeItemHierarchy				Trade Item Containment. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	quantityOfCompleteLayersContainedInATradeItem			Trade Item Containment. Complete Layers_ 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	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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	{ref1}
	quantityOfLayersPerPallet			Trade Item Containment. Layers Per Pallet_Quantity. Quantity	The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.	0..1	{ref1}
	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 (inner pack).	0..1	{ref1}
	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	{ref1}
	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	{ref1}
	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	{ref1}
TradeItemImportIdentification				Trade Item_ Import Classification. Details	None		{ref3}
	importClassificationType			Trade Item_ Import Classification. Import_ Classification Type. Import Classification Type Code_ Code	Imports and exports of trade items typically require classification codes to determine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté	0..1	{ref3}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	importClassificationValue			Trade Item_ Import Classification. Import_ Classification Code. Text	Imports and exports of trade items typically require classification codes to determine appropriate duties and tariffs. Values include Netherlands Import Code, Harmonized Commodity Description and Coding System, Customs Tariff and INTRASTAT Code, Harmonized Tariff Schedule of the United States, INTRASTAT Combined Nomenclature, Tarif Intégré de la Communauté	0..1	{ref3}
TradeItemMarking				Trade Item Marking. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	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	{ref1}
	isNonSoldTradeItemReturnable			Trade Item Marking. Non Sold Returnable. Indicator	!! Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to General Merchandise, Publishing industries and for some FMCG trade item.	0..1	{ref1}
	isTradeItemMarkedAsRecyclable			Trade Item Marking. Recyclable. Indicator	Trade item has a recyclable indication marked on it. This may be a symbol from one of many regional agencies.	0..1	{ref1}
TradeItemMaterial				Additional_ Product_ Material Composition. Details	None		{ref1}
	materialWeight			Additional_ Product_ Material Composition. Material_ Weight. Measure	The measured weight of the material expressed in ounces per square yard or grams per square meter.	0..1	{ref1}
	threadCount			Additional_ Product_ Material Composition. Thread Count_ Description. Text	This element is used to specify the quality of material (fabric) of a trade item.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
TradeItemMeasurements				Physical_ Trade Item Dimensions. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	casingTareWeight			Physical_ Trade Item Dimensions.Casing Tare Weight.Measure	The weight measurement of the "food casing". A casing for food products is a flexible tubing into which foods are stuffed to provide a skin-tight covering. Used in packaging prepared meats, poultry, cheese, and other food products. Casings may be made of animal intestines or synthetic materials such as regenerated cellulose, various plastics, fibrous compounds, and rubber film. "Tare Weight – food casing" applies to the "each" level.	0..1	{ref4}
	genericIngredient			Physical_ Trade Item Dimensions. Generic_ Ingredient. Text	Used, for pharmaceutical trade item to describe 1 or many generic ingredients within the trade item.	0..1	{ref1}
	ingredientStrength			Physical_ Trade Item Dimensions. Ingredient Strength. Text	Used for pharmaceutical trade item to define the strength of each ingredient in a trade item or unit volume of the trade item.	0..1	{ref1}
	isNetContentDeclarationIndicated			Physical_ Trade Item Dimensions. Net Content Declaration. Indicator	This field is used to facilitate local business rules where a declaration of a trade item's net content is not on the product label e.g.UK under 50g.legislation.	0..1	{ref1}
	layerHeight			Physical_ Trade Item Dimensions.Layer Height.Measure	This field is used to identify the measurement of height of the layer when trade items are packed with layers.	0..1	
	priceComparisonContentType			Physical_ Trade Item Dimensions. Price Comparison_ Content Type Code. Price Comparison Content Type_ Code	Code indicating how the value in Price Comparison Measurement is used to calculate the comparative price, which is printed on shelf labels.	0..1	{ref1}
		depth	MultiMeasurement Value	Physical_ Trade Item Dimensions. Depth. Multi-unit Measure	The measurement from front to back of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		diameter	MultiMeasurement Value	Physical_ Trade Item Dimensions. Diameter. Multi-unit Measure	The measurement of the diameter of the trade item at its largest point. For example, 165 "mmt", value - mmt, diameter. Has to be associated with valid UoM.	0..1	{ref1}
		drainedWeight	MultiMeasurement Value	Physical_ Trade Item Dimensions. Drained_Weight. Multi-unit Measure	The weight of the trade item when drained of its liquid. For example 225 "grm", Jar of pickles in vinegar. Applies to defined bricks of GCI Global trade item Classification - Mainly food trade item. Has to be associated with a valid UoM.	0..1	{ref1}
		genericIngredientStrength	MultiMeasurement Value	Physical_ Trade Item Dimensions. Generic_Ingredient Strength. Multi-unit Measure	Used, for pharmaceutical trade item to define the strength of each generic ingredient in a trade item or unit volume of the trade item. Repeated per generic substance. Needs to be associated with a valid UoM.	0..1	{ref1}
		grossWeight	MultiMeasurement Value	Physical_ Trade Item Dimensions. Gross_Weight. Multi-unit Measure	Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade itemGrossWeight includes the weight of the pallet itself. For example, "200 grm", value - total pounds, total grams, etc. Has to be associated with a valid UoM.	0..1	{ref1}
		height	MultiMeasurement Value	Physical_ Trade Item Dimensions. Height. Multi-unit Measure	The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade itemHeight will include the height of the pallet itself. Business Rules: Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1	{ref1}
		nestingIncrement	MultiMeasurement Value	Trade Item Handling. Nesting Increment. Multi-unit Measure	Indicates the incremental height of Trade Items nested together. In the case of two garbage cans nested together, this would be the height between the lip of the lower can and the lip on the upper can.	0..*	{ref4}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		netContent	MultiMeasurement Value	Physical_ Trade Item Dimensions. Net_Content. Multi-unit Measure	The amount of the trade item contained by a package, usually as claimed on the label. For example, "Mineral Water 750ml - net content = "750 ML; 20 count pack of diapers, net content = "20 PCE". hot chocolate 10 – 1oz packets-net content = 10 "OZ" Note: packages that contain product with different types of net contents such as a Halloween costume kit (liquid makeup, powder make up, application sponges) or a travel shaving kit (razor, blades and shaving cream) net content = 1 count "1N" or 1 kit "KT" when individual net contents are listed."	0..1	{ref1}
		netWeight	MultiMeasurement Value	Physical_ Trade Item Dimensions. Net_Weight. Multi-unit Measure	Used to identify the net weight of the trade item. Net weight applies to all levels but consumer unit level. Net Weight excludes all packaging material, including the packaging material of all lower-level GTINs. Examples: "11.5 kgm" value - pounds, grams, etc.	0..1	{ref1}
		priceComparison Measurement	MultiMeasurement Value	Physical_ Trade Item Dimensions. Price_Comparison Measurement. Multi-unit Measure	The quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent. This field is dependent on the population of priceComparisonContentType and is required when priceComparisonContentType is used.	0..1	{ref1}
		tradeItemCompositionWidth	MultiMeasurement Value	Physical_ Trade Item Dimensions. Trade Item Composition_ Width. Multi-unit Measure	The number of child-items that are packaged beside each other in a trade unit (on the side facing the consumer). This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf. The Space Manager always allocates Base Units in the shelf. Usually there are no pictures of Trade Units available and for Hypermarkets/Big Supermarkets there is a need to allocate whole trade units into the shelves.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		width	MultiMeasurement Value	Physical_ Trade Item Dimensions. Width. Multi-unit Measure	The measurement from left to right of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1	{ref1}
		None	PegMeasurements	Physical_ Trade Item Dimensions. Association. Peg Location	This information on PegMeasurements for TradeItemMeasurements.	0..*	{ref1}
TradeItemOrderInformation				Trade Item Ordering. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	isTradeItemReorderable			Trade Item Ordering. Reorderable. Indicator	This element is an indicator that selected styles or trade items may or may not be re-ordered. It does not imply any information on current availability.	0..1	{ref1}
	isTradeItemSizeBasedPricing			Trade Item Ordering. Size Based Pricing. Indicator	This is an indicator that an item may be at a different price point than other similar SKUs (GTIN's price within a Style may differ).	0..1	{ref1}
	agreedMinimumBuyingQuantity			Trade Item Ordering. Agreed Minimum Buying_ Quantity. Quantity	Minimum buying quantity agreed between trading partners.	0..1	{ref1}
	agreedMaximumBuyingQuantity			Trade Item Ordering. Agreed Maximum Buying_ Quantity. Quantity	The maximum quantity of the product available to the retailer.	0..1	{ref1}
	FirstDeliveryDateTime			Trade Item Ordering. First_ Delivery Date. Date Time	The earliest date at which the supplier can deliver the product to the trading partner.	0..1	{ref1}
	orderQuantityMaximum			Trade Item Ordering. Maximum_ Quantity. Quantity	The maximum quantity of the trade item that can be ordered. A number or a count. This value can represent the total number of units ordered over a set period of time with multiple orders.	0..1	{ref1}
	orderQuantityMinimum			Trade Item Ordering. Minimum_ Quantity. Quantity	Represent an agreed to minimum quantity of the trade item that can be ordered. A number or a count. This applies to each individual order. Can be a fixed amount for all customers in a target market.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	orderQuantityMultiple			Trade Item Ordering. Multiple_Quantity. Quantity	The order quantity multiples in which the trade item may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the trade item can only be ordered in quantities which are divisible by the Order Quantity Multiple of 20.	0..1	{ref1}
		goodsPickUpLeadTime	MultiMeasurement Value	Trade Item Ordering. Goods Pickup_Lead Time. Multi-unit Measure	Time (in weeks, days, hours ...) required between order entry and the earliest goods release (use for pick-up, not use for delivery). Remark about ordering lead-time : Geographic distance from manufacturing / distribution point to delivery point impacts this value (relationship dependant data).	0..1	{ref1}
		orderSizingFactor	MultiMeasurement Value	Trade Item Ordering. Sizing_Factor. Multi-unit Measure	A trade item specification other than gross, net weight, or cubic feet for a line trade item or a transaction, used for order sizing and pricing purposes. For example, factors may be used to cube a truck, reflecting different weights, and dimensions of trade item.	0..1	{ref1}
		orderingLeadTime	MultiMeasurement Value	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.	0..1	{ref1}
TradeItemPalletInformation				Pallet. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	palletTermsAndConditions			Pallet. Terms And Conditions. Text	Indicates if the pallet in the prescribed pallet configuration is rented, exchangeable, against deposit or one way (not reusable).	0..1	{ref1}
	palletTypeCode			Pallet. Type. Bilateral_Code	Indicates whether the described dispatch unit is delivered on a pallet and on which type of pallet, or if it is non-palletized. If the dispatch unit is delivered on a pallet the pallet type must be given here. The range of the pallet types/codes is listed in code sets.	0..1	{ref1}
TradeItemPriceDetailsInformation				Trade Item Price. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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	{ref1}
	effectiveStartDate			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	{ref1}
		None	TradeItemPrice	Trade Item Price. Association. Trade Item Price.Detail	!! The default value to be used for the field when that field is not present in the file.	1..1	{ref1}
TradeItemSizeDescription				Trade Item Size. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	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	{ref1}
	sizeCodeListAgency			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.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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).	0..1	{ref1}
TradeItemTaxAmount				Trade Item_ Tax Amount. Details	!! This class is part of the Trade Item Tax Information class.		{ref1}
	taxAmount			Trade Item_ Tax Amount. Amount. Amount	The current tax or duty or fee amount applicable to the trade item.	1..1	{ref1}
		None	TaxAgency	Trade Item_ Tax Amount. Association. Tax Type	Associated tax information including tax type and associated taxation authority.	1..1	{ref1}
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.		{ref1}
		None	TradeItemTaxAmount	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Amount	The current tax or duty or fee amount applicable to the trade item.	1..*	{ref1}
		None	TradeItemTaxRate	Trade Item_ Tax Information Group. Association. Trade Item_ Tax Rate	The current tax or duty rate percentage applicable to the trade item.	1..*	{ref1}
TradeItemTaxRate				Trade Item_ Tax Rate. Details	!! This class is part of the TradeItem Tax Information class.		{ref1}
	taxRate			Trade Item_ Tax Rate. Percentage. Percent_ Numeric	The current tax or duty rate percentage applicable to the trade item.	1..1	{ref1}
		None	TaxAgency	Trade Item_ Tax Rate. Association. Tax Type	Associated tax information including tax type and associated taxation authority.	1..1	{ref1}
TradeItemTemperatureInformation				Trade Item Temperature Group. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
		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 centre.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		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 centre.	0..1	{ref1}
		deliveryToMarketTemperatureMaximum	MultiMeasurementValue	Trade Item Temperature Group. Delivery to Market_Maximum. Multi-unit Measure	Permitted maximum temperature of the trade item during delivery to market.	0..1	{ref1}
		deliveryToMarketTemperatureMinimum	MultiMeasurementValue	Trade Item Temperature Group. Delivery To Market_Minimum. Multi-unit Measure	Permitted minimum temperature of the trade item during delivery to market.	0..1	{ref1}
		storageHandlingHumidityMaximum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling Humidity_Maximum. Multi-unit Measure	The maximum humidity in percentages that the goods should be stored in.	0..1	{ref1}
		storageHandlingHumidityMinimum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling Humidity_Minimum. Multi-unit Measure	The minimum humidity in percentages that the goods should be stored in.	0..1	{ref1}
		storageHandlingTemperatureMaximum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_Maximum. Multi-unit Measure	The maximum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.	0..1	{ref1}
		storageHandlingTemperatureMinimum	MultiMeasurementValue	Trade Item Temperature Group. Storage Handling_Minimum. Multi-unit Measure	The minimum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.	0..1	{ref1}
TradeItemUnitIndicator				Trade Item Processing. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	isTradeItemABaseUnit			Trade Item Processing. Base_Unit. Indicator	An indicator identifying the trade item as the base unit level of the trade item hierarchy. This is y/n (Boolean) where y indicates the trade item is a base unit.	1..1	{ref1}
	isTradeItemAConsumerUnit			Trade Item Processing. Consumer_Unit. Indicator	Identifies whether the current hierarchy level of a trade item is intended for ultimate consumption. For retail, this trade item will be scanned at point of sale. At retail, this data is commonly used to select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be reflected by the retailer.	1..1	{ref1}
	isTradeItemADespatchUnit			Trade Item Processing. Despatch_Unit. Indicator	An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit. This may be relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is a dispatch unit.	1..1	{ref1}
	isTradeItemAnInvoiceUnit			Trade Item Processing. Invoice_Unit. Indicator	An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an invoicing unit.	1..1	{ref1}
	isTradeItemAnOrderableUnit			Trade Item Processing. Orderable_Unit. Indicator	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be a relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an ordering unit.	1..1	{ref1}
	isTradeItemAVariableUnit			Trade Item Processing. Variable_Unit. Indicator	Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume. trade item is used or traded in continuous rather than discrete quantities.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	priceByMeasure Type			Trade Item Processing. Price By Measure. Price By Measure Type Code_ Code	Indicator to show how a product is sold.	0..1	{ref1}
	variableTradeItem Type			Trade Item Processing. Variable Trade Item Type. Code	Indicator to show if a product is loose or pre-packed.	0..1	{ref1}
TradingPartnerNeutralTradeItemInformation				Trading Partner Neutral_ Trade Item. Details	!! This is a class from the TradeItemInformation class.		{ref1}
	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..*	{ref1}
	classComplianceRegulationCode			Trading Partner Neutral_ Trade Item. Class Compliance_ Regulation Code. Code	A code that indicates that a trade item is in compliance with specific applicable government regulations. Different municipalities require this on items shipped-to or sold-in the municipality.	0..*	{ref1}
	isBarCodeOnPackageVariableMeasureBarCode			Trading Partner Neutral_ Trade Item.Is Bar Code On Package Variable Measure Bar Code.Indicator	An indicator identifying if the bar code that is printed on the trade item package is a variable measure bar code.	0..1	{ref4}
	rfidTaggedCode			Trading Partner Neutral_ Trade Item.RFID Tagged Code.RFID Tagged_ Code	A code that indicates if the trade item is or could be EPC RFID tagged.	0..1	{ref4}
	tradeItemCountryOfAssembly			Trading Partner Neutral_ Trade Item. Assembly_ Country. ISO3166_1_ Code	Country where product is assembled. Uses ISO country codes.	0..*	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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. This value may or may not be presented on the trade item label. Per regional requirements this can include supranational and intergovernmental unions with a common single market for example the European Union (097).	0..*	{ref1}
		None	BrandOwnerOfTradeItem	Trading Partner Neutral_ Trade Item. Association. Brand Owner_ Party	This information on BrandOwnerOfTradeItem for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	ManufacturerOfTradeItem	Trading Partner Neutral_ Trade Item. Association. Manufacturer_ Party	This information on ManufacturerOfTradeItem for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	MarketingInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Marketing	This information on MarketingInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	MaterialComposition	Trading Partner Neutral_ Trade Item. Association. Product_ Material Composition	This information on MaterialComposition for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	MaterialSafetyData	Trading Partner Neutral_ Trade Item. Association. Material Safety Data Sheet	This information on MaterialSafetyData for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	NonPackageTradeItemDimension	Trading Partner Neutral_ Trade Item. Association. Apparel_ Home Fashions_ Product Size	This information on NonPackageTradeItemDimension for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	OrderingAndSellingUnitOfMeasure	Trading Partner Neutral_ Trade Item. Association. Ordering_ Selling_ Trade Item Unit Information	This information on OrderingAndSellingUnitOfMeasure for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	OrganicTradeItemCharacteristics	Trading Partner Neutral_ Trade Item. Association. Organic_ Trade Item	This information on OrganicTradeItemCharacteristics for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	PackagingMarking	Trading Partner Neutral_ Trade Item. Association. Packaging Marking	This information on PackagingMarking for TradingPartnerNeutralTradeItemInformation.	1..1	{ref1}
		None	PackagingMaterial	Trading Partner Neutral_ Trade Item. Association. Packaging Material	This information on PackagingMaterial for TradingPartnerNeutralTradeItemInformation	0..*	{ref1}
		None	PackagingType	Trading Partner Neutral_ Trade Item. Association. Packaging	This information on PackagingType for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	PriceOnTradeItem	Trading Partner Neutral_ Trade Item. Association. Price_ Packaging Marking	This information on PriceOnTradeItem for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	PrivateInformation	Trading Partner Neutral_ Trade Item. Association. Private Data Recipient_ Party	This information on PrivateInformation for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	Season	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Season	This information on Season for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	SecurityTagInformation	Trading Partner Neutral_ Trade Item. Association. Security Tag	This information on SecurityTagInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	ShipFromLocation	Trading Partner Neutral_ Trade Item. Association. Ship From Location	A location from which the trade item may be shipped, or picked up by the retailer.	0..*	{ref4}
		None	TargetConsumer	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Target Consumer	This information on TargetConsumer for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}

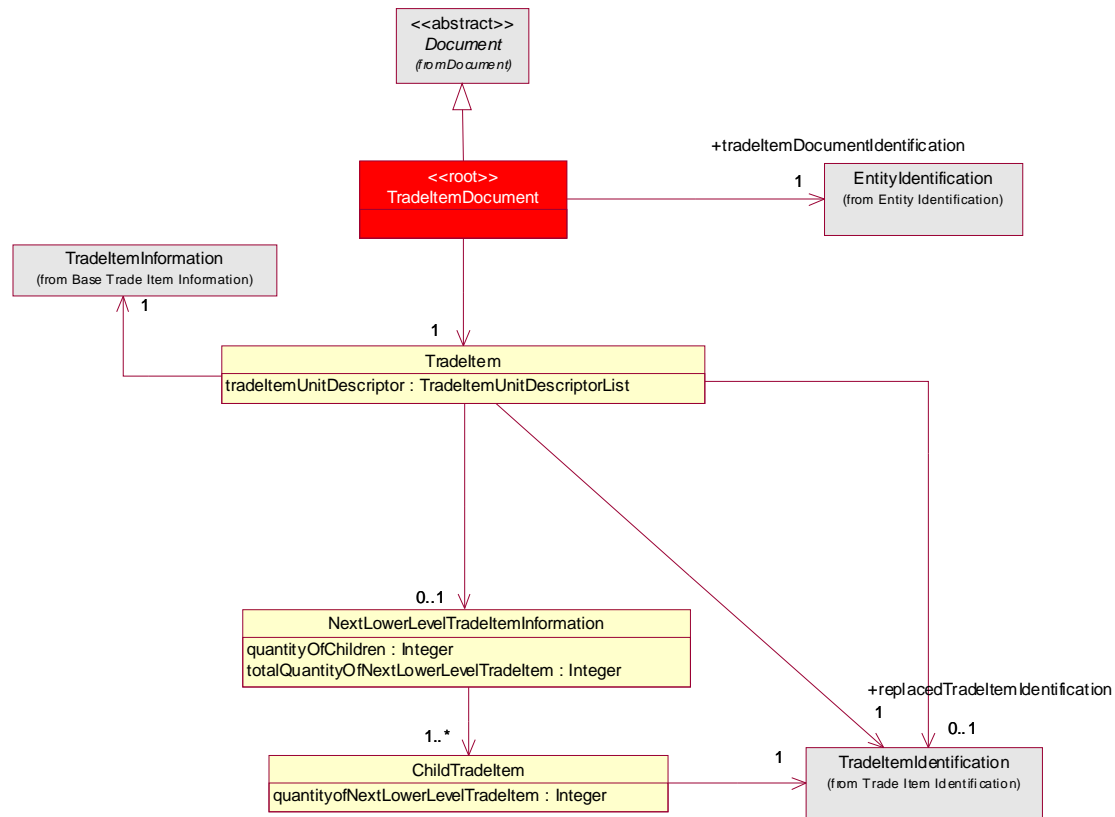
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeltemColorDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Colour	This information on TradeltemColorDescription for TradingPartnerNeutralTradeltemInformation.	0..*	{ref1}
		None	TradeltemCoupon	Trading Partner Neutral_ Trade Item. Association. Trade Item Coupon	This information on TradeltemCoupon for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemDateInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Date Group	This information on TradeltemDateInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemFinish	Trading Partner Neutral_ Trade Item. Association. Product Finish	This information on TradeltemFinish for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemHandlingInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Handling	This information on TradeltemHandlingInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemHazardousInformation	Trading Partner Neutral_ Trade Item. Association. Hazardous Goods	This information on TradeltemHazardousInformation for TradingPartnerNeutralTradeltemInformation.	0..*	{ref1}
		None	TradeltemHierarchy	Trading Partner Neutral_ Trade Item. Association. Trade Item Containment	This information on TradeltemHierarchy for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemImportIdentification	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Import Classification	This information on TradeltemImportIdentification for TradingPartnerNeutralTradeltemInformation.	0..*	{ref1}
		None	TradeltemMarking	Trading Partner Neutral_ Trade Item. Association. Trade Item Marking	This information on TradeltemMarking for TradingPartnerNeutralTradeltemInformation.	1..1	{ref1}

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeltemMaterial	Trading Partner Neutral_ Trade Item. Association. Additional_Product_ Material Composition	This information on TradeltemMaterial for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemMeasurements	Trading Partner Neutral_ Trade Item. Association. Physical_ Trade Item Dimensions	This information on TradeltemMeasurements for TradingPartnerNeutralTradeltemInformation.	1..1	{ref1}
		None	TradeltemOrderInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Ordering	This information on TradeltemOrderInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemPalletInformation	Trading Partner Neutral_ Trade Item. Association. Pallet	This information on TradeltemPalletInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		cataloguePrice	TradeltemPriceDateInformation	Trading Partner Neutral_ Trade Item. Catalogue Price. Trade Item Price	This information on TradeltemPriceDateInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		suggestedRetailPrice	TradeltemPriceDateInformation	Trading Partner Neutral_ Trade Item. Suggested Retail Price. Trade Item Price	The retail (to consumer) price as suggested by the manufacturer. This is normally used to establish a proposed value for the trade item for marketing purposes. May or may not appear on the package.	0..1	{ref1}
		None	TradeltemSizeDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Size	This information on TradeltemSizeDescription for TradingPartnerNeutralTradeltemInformation.	0..*	{ref1}
		None	TradeltemTaxInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Tax Information Group	This information on TradeltemTaxInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}
		None	TradeltemTemperatureInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Temperature Group	This information on TradeltemTemperatureInformation for TradingPartnerNeutralTradeltemInformation.	0..1	{ref1}

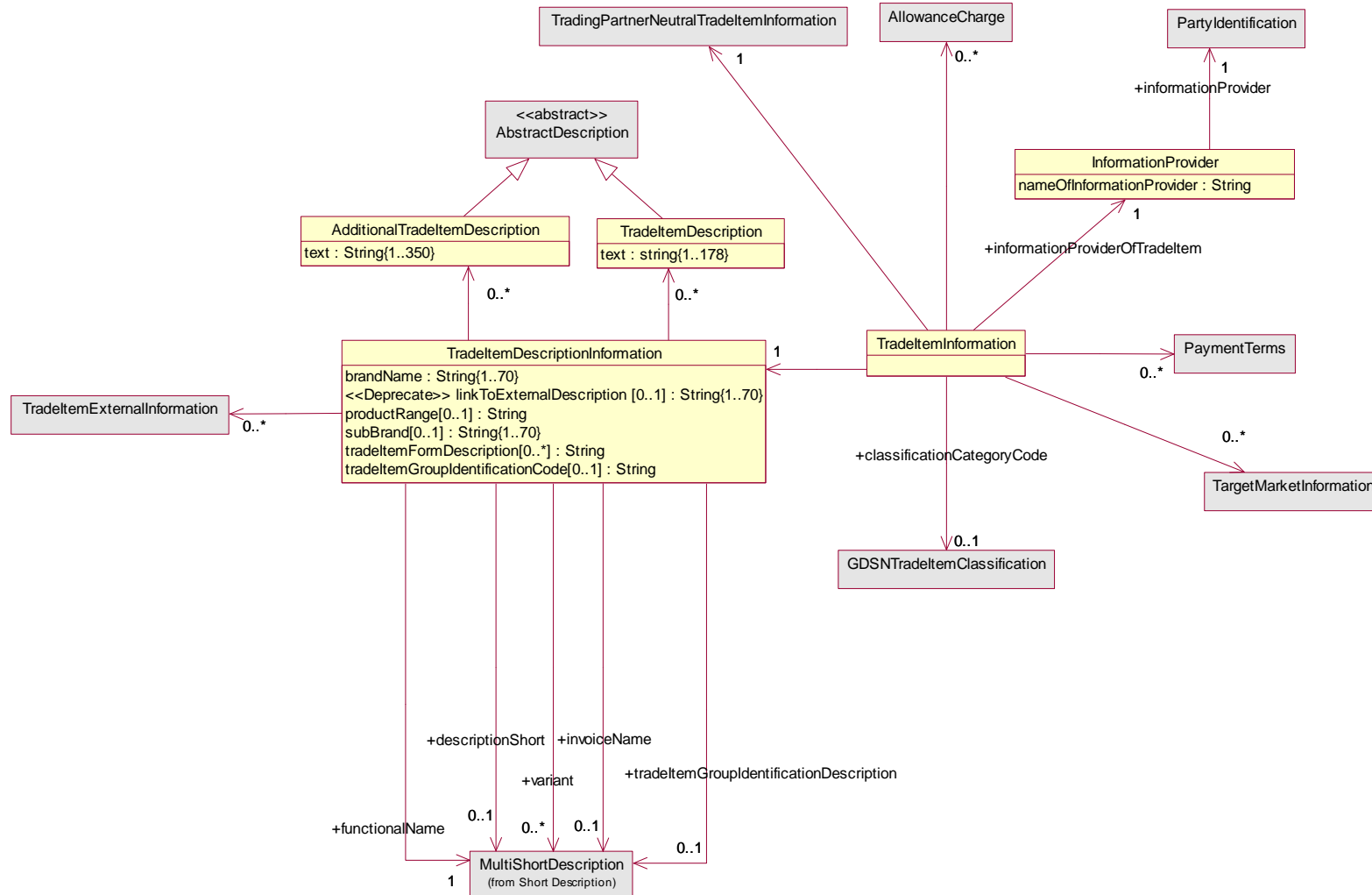
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeltemUnitIndicator	Trading Partner Neutral_ Trade Item. Association. Trade Item Processing	This information on TradeltemUnitIndicator for TradingPartnerNeutralTradeltemInformation.	1..1	{ref1}

5.2. Class Diagrams

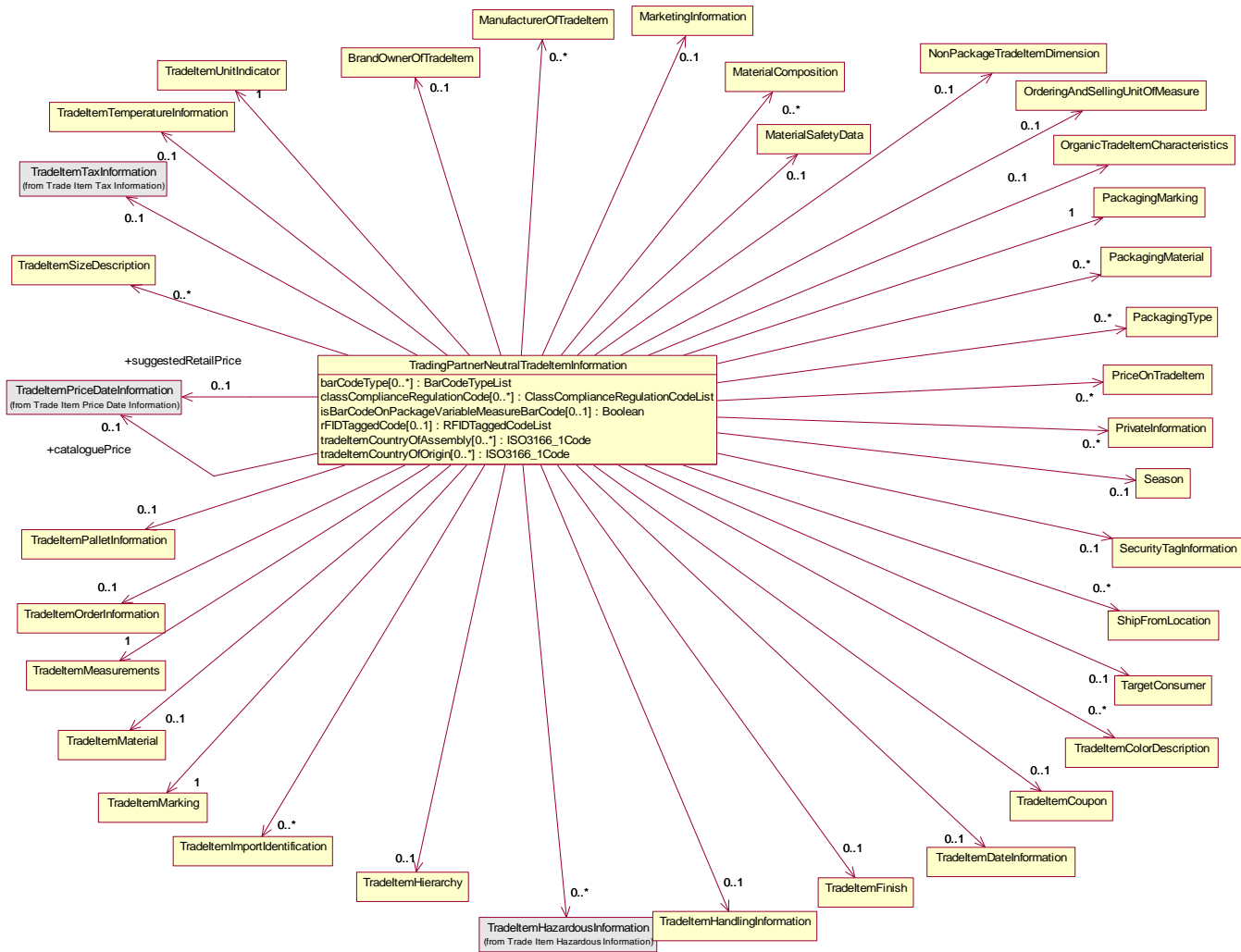
5.2.1. Class Diagram for Trade Item



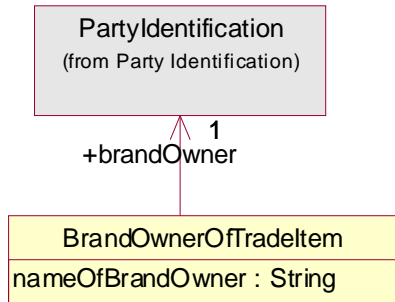
5.2.2. Class Diagram for Trade Item Information



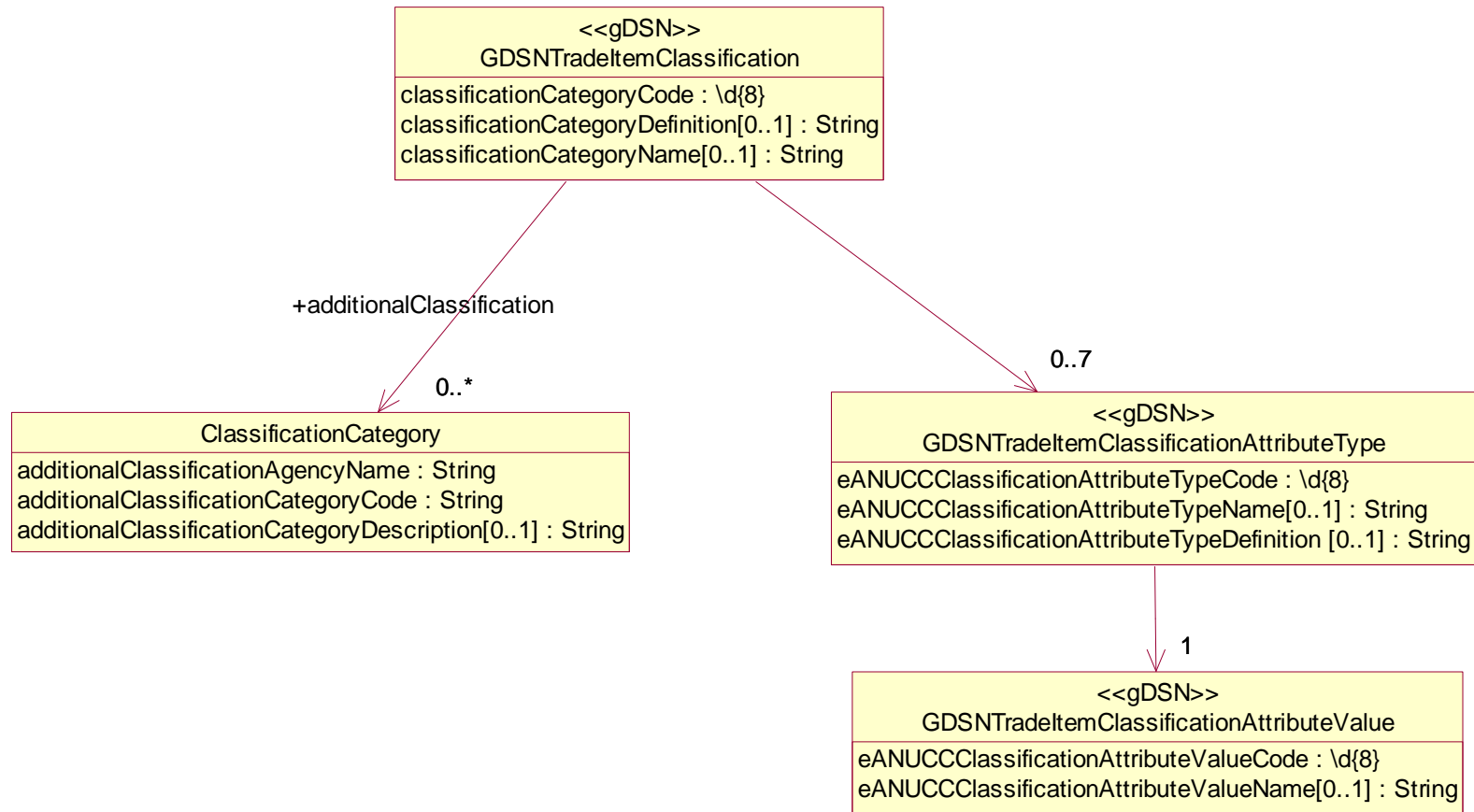
5.2.3. Class Diagram Trading Partner Neutral Trade Item Information Relationship



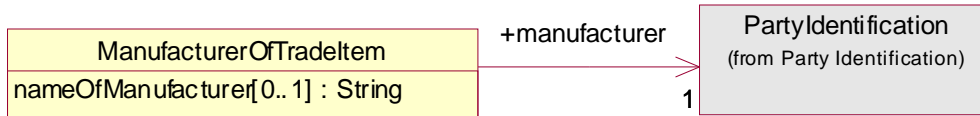
5.2.4. Class Diagram Brand Owner Of Trade Item



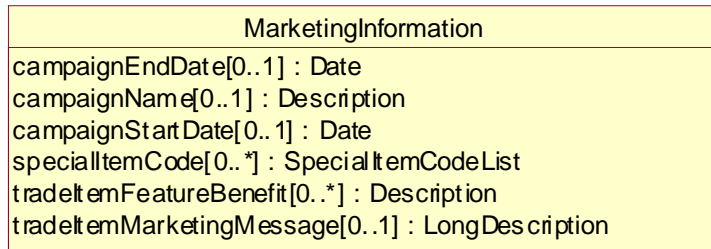
5.2.5. Class Diagram GDSN Trade Item Classification



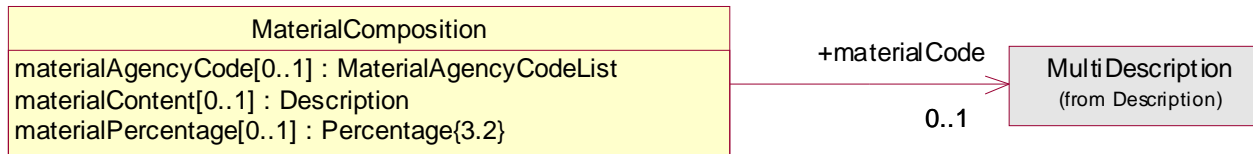
5.2.6. Class Diagram Manufacturer Of Trade Item



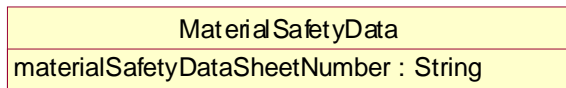
5.2.7. Class Diagram Marketing Information



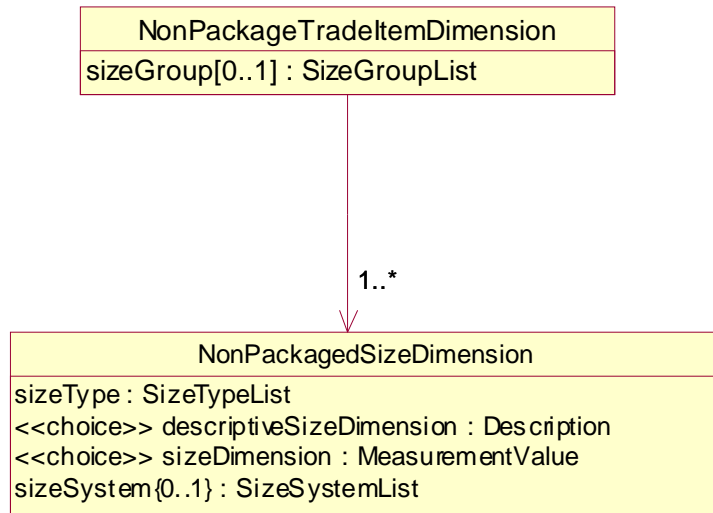
5.2.8. Class Diagram Material Composition



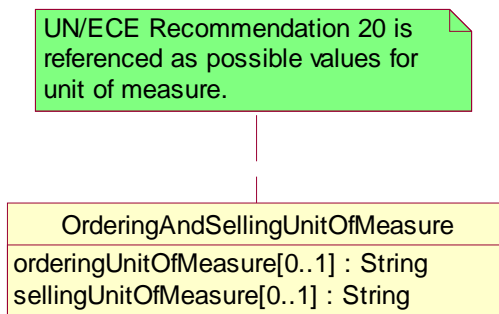
5.2.9. Class Diagram Material Safety Data



5.2.10. Class Diagram Non Package Trade Item Dimension



5.2.11. Class Diagram Ordering and Selling Unit Of Measure



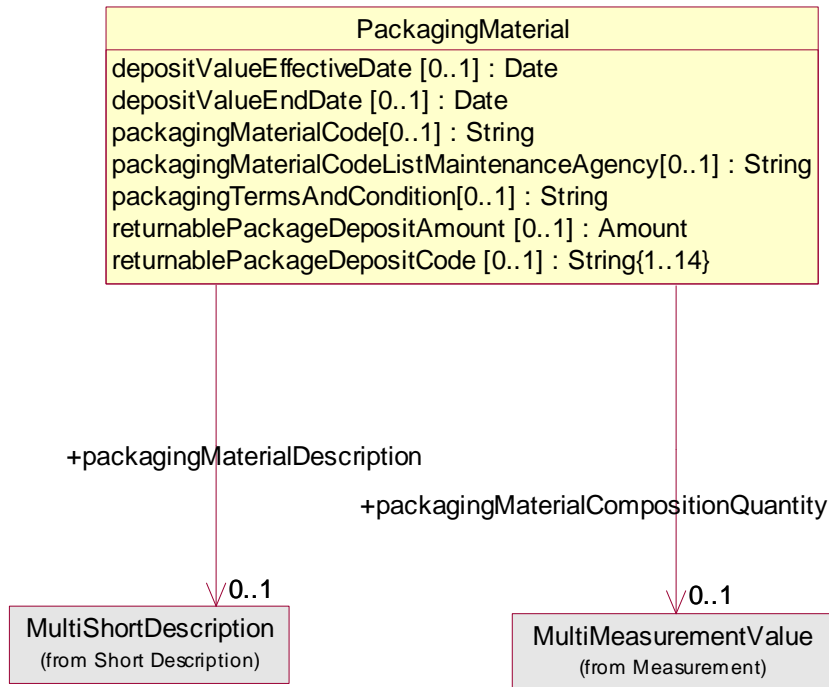
5.2.12. Class Diagram Organic Trade Item Characteristics

OrganicTradeItemCharacteristics
organicClaimAgency[1..*] : String
organicTradeItemCode : String

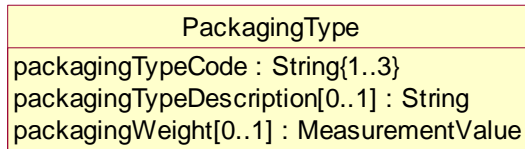
5.2.13. Class Diagram Packaging Marking

PackagingMarking
isPackagingMarkedReturnable : Boolean
isPackagingMarkedWithIngredients[0..1] : Boolean
isPriceOnPack[0..1] : Boolean
offerOnPack[0..1] : String
packageMarksDietAllergen[0..*] : PackageMarksDietAllergenCodeList
packageMarksEnvironment[0..*] : PackageMarksEnvironmentCodeList
packageMarksEthical[0..*] : PackageMarksEthicalCodeList
packageMarksFreeFrom[0..*] : PackageMarksFreeFromCodeList
packagingMarkedExpirationDateType[0..*] : PackagingMarkedExpirationDateTypeCodeList
packagingMarkedRecyclableScheme[0..1] : String{1..70}

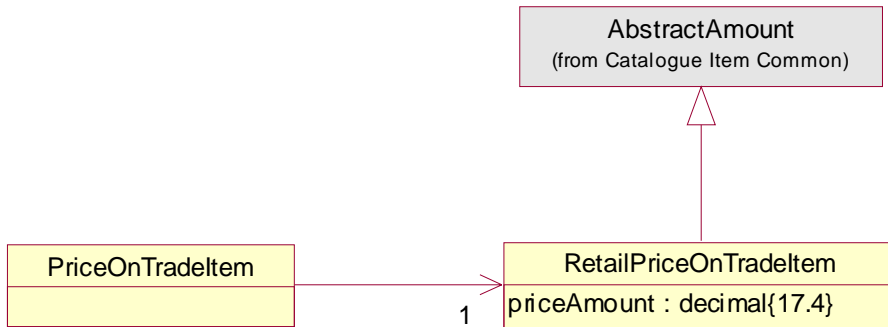
5.2.14. Class Diagram Packaging Material



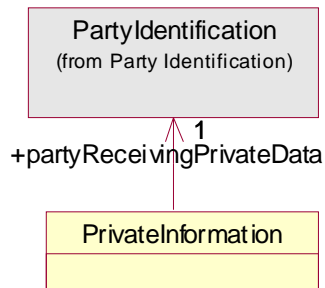
5.2.15. Class Diagram Packaging Type



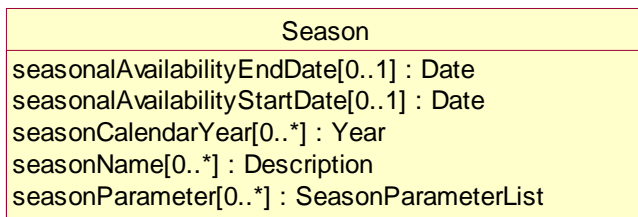
5.2.16. Class Diagram Price On Trade Item



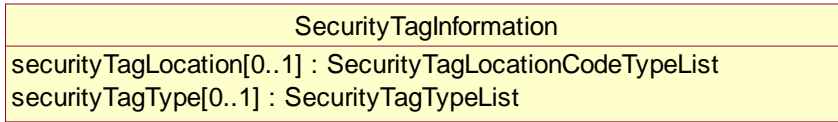
5.2.17. Class Diagram Private Information



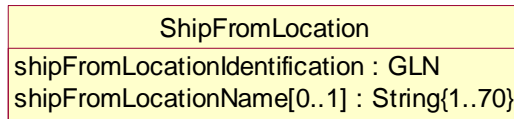
5.2.18. Class Diagram Season



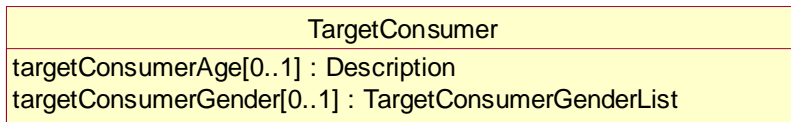
5.2.19. Class Diagram Security Tag Information



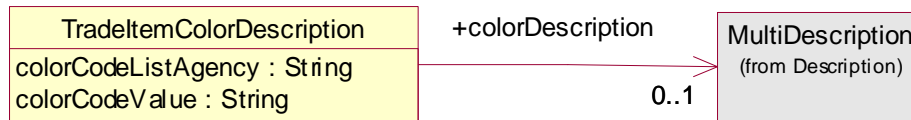
5.2.20. Class Diagram ShipFromLocation



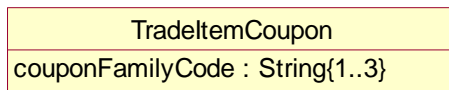
5.2.21. Class Diagram Target Consumer



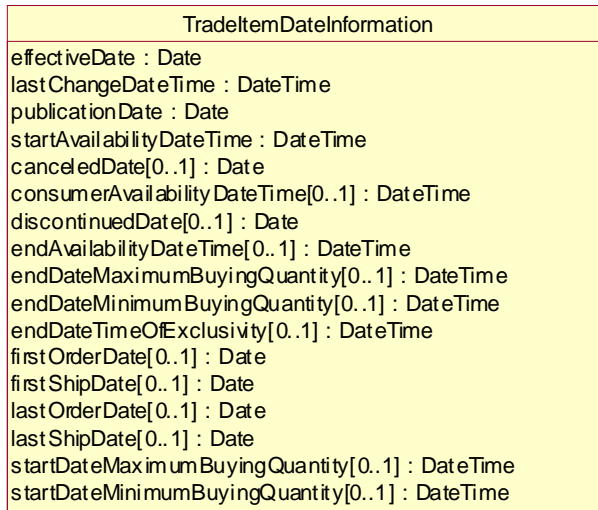
5.2.22. Class Diagram Trade Item Color Description



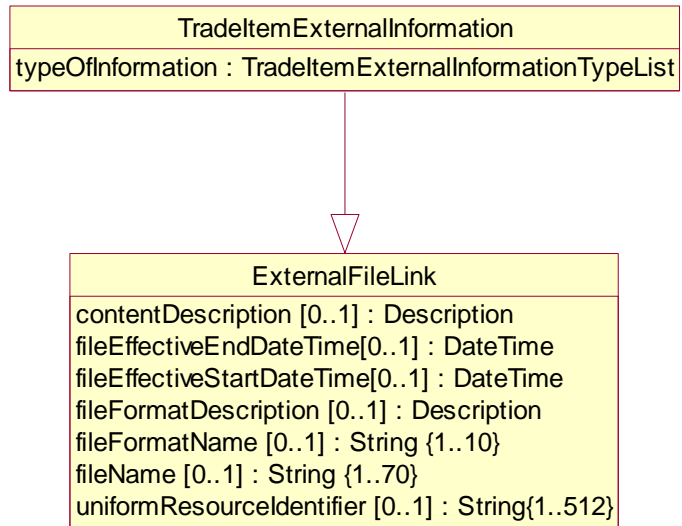
5.2.23. Class Diagram Trade Item Coupon



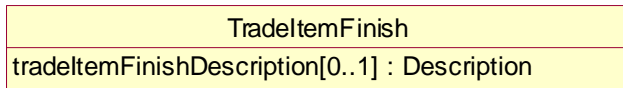
5.2.24. Class Diagram Trade Item Date Information



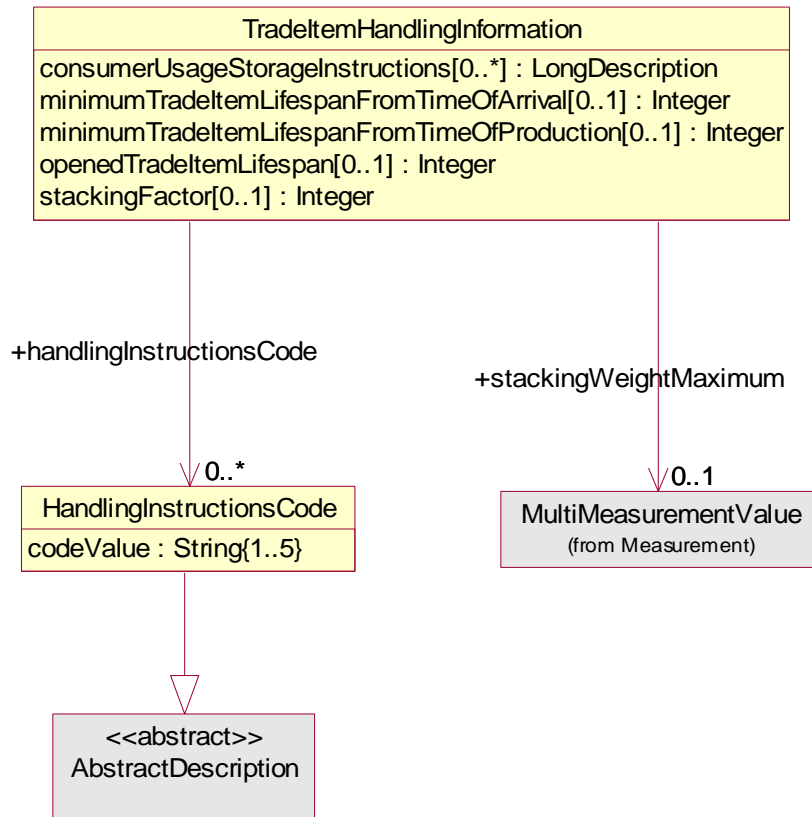
5.2.25. Trade Item External Information



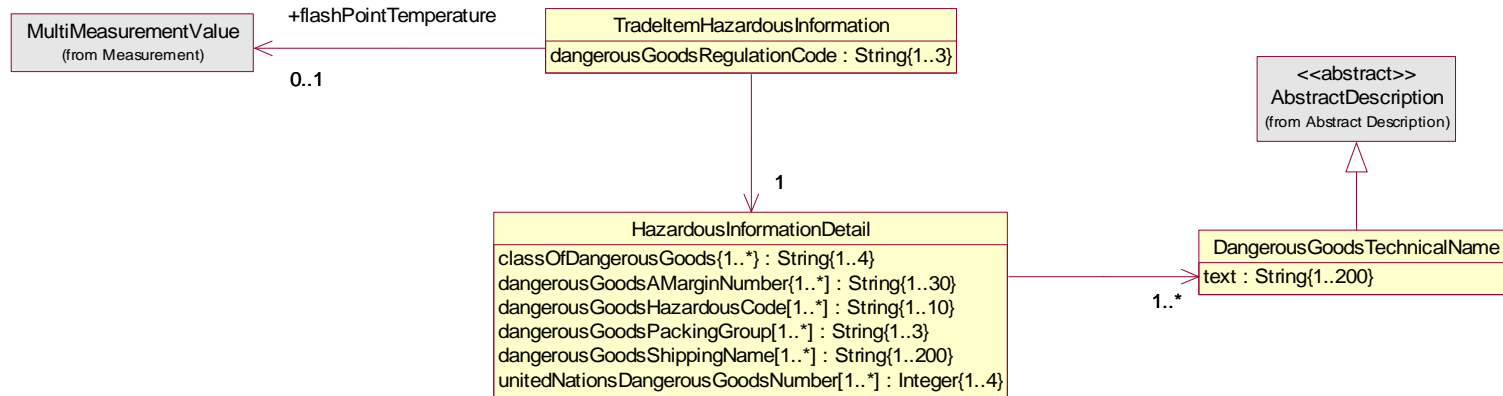
5.2.26. Class Diagram Trade Item Finish



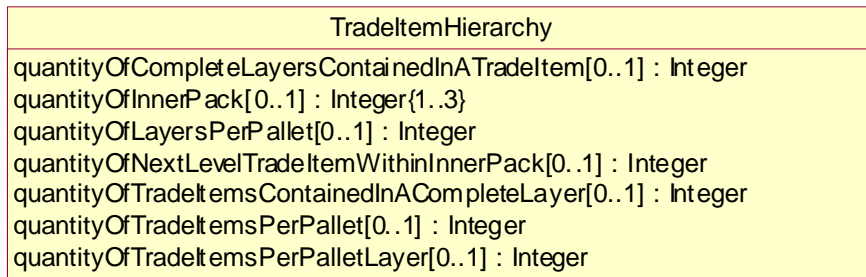
5.2.27. Class Diagram Trade Item Handling Information



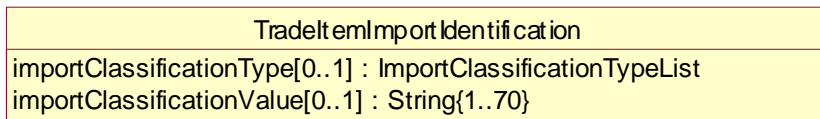
5.2.28. Trade Item Hazardous Information



5.2.29. Class Diagram Trade Item Hierarchy



5.2.30. Class Diagram Trade Item Import Identification



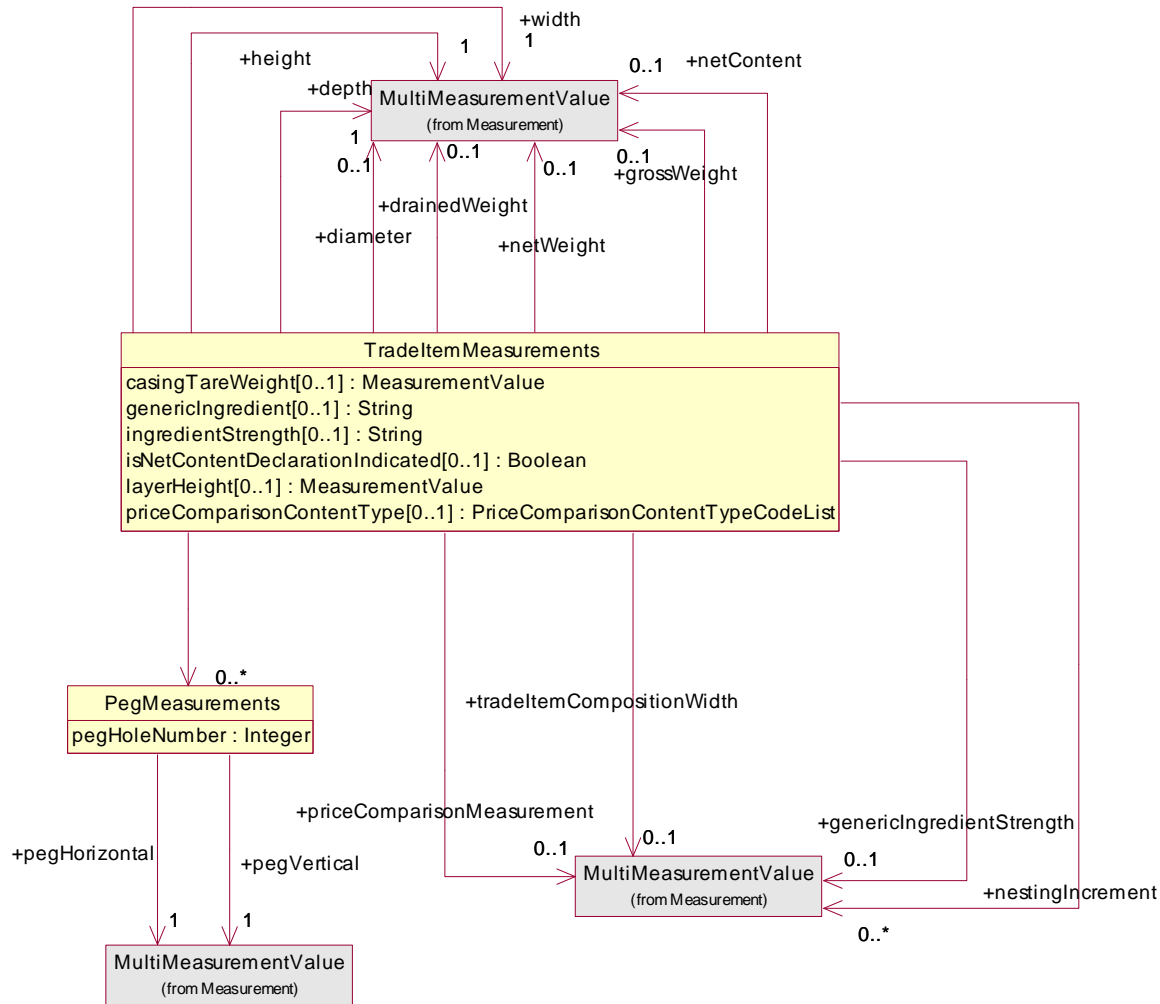
5.2.31. Class Diagram Trade Item Marking

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

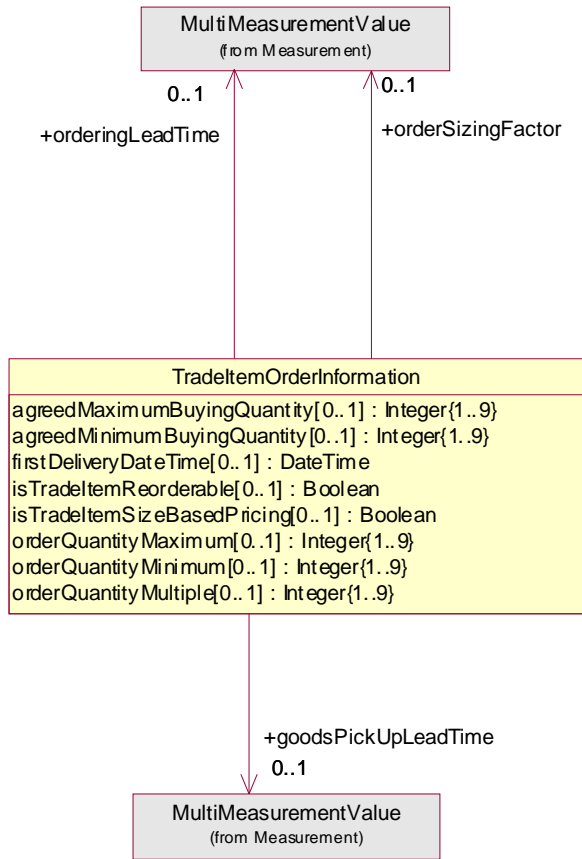
5.2.32. Class Diagram Trade Item Material

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

5.2.33. Class Diagram Trade Item Measurements



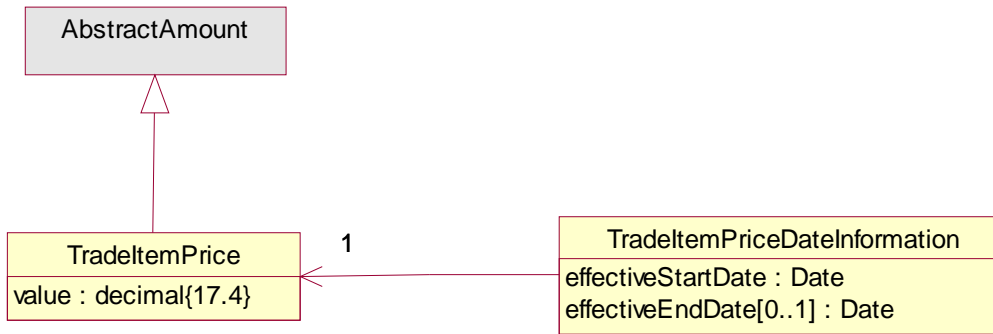
5.2.34. Class Diagram Trade Item Order Information



5.2.35. Class Diagram Trade Item Pallet Information

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

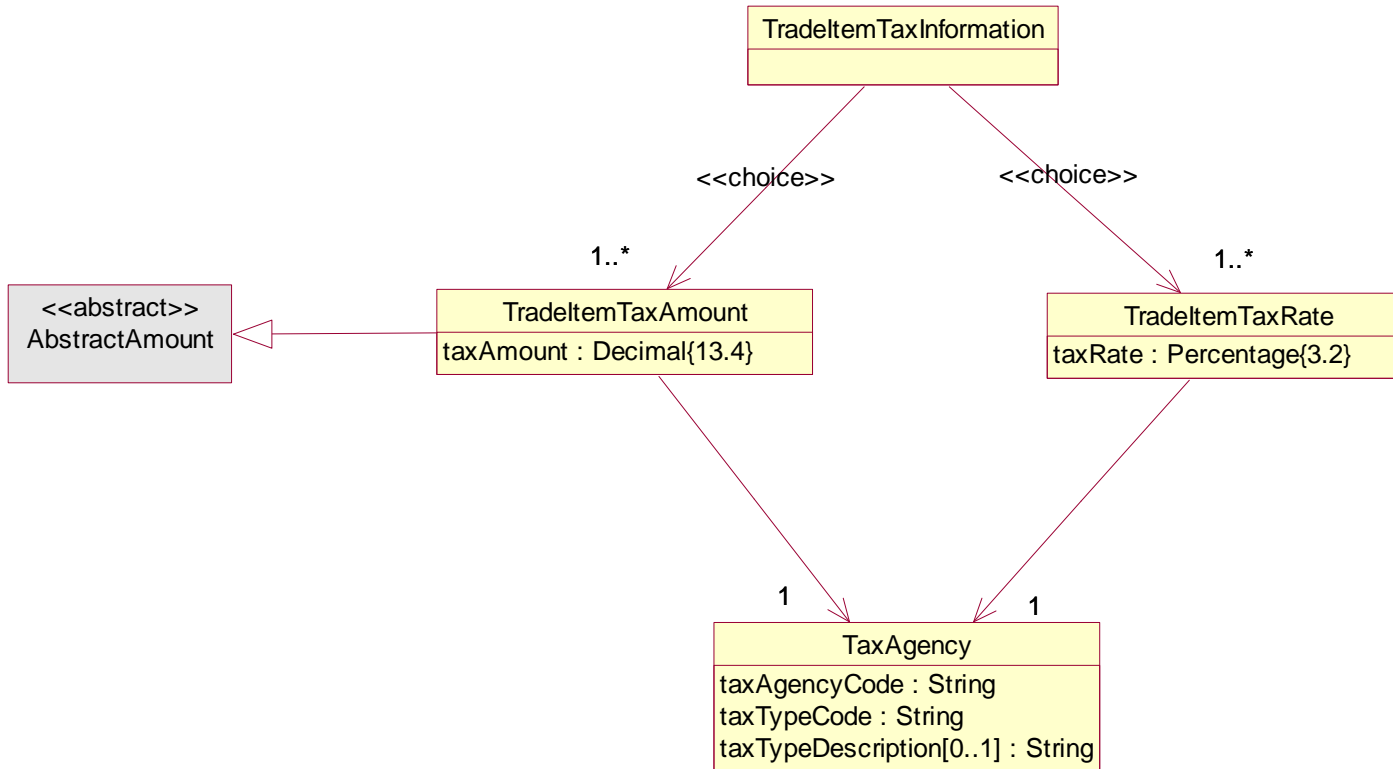
5.2.36. Class Diagram Trade Item Price Date



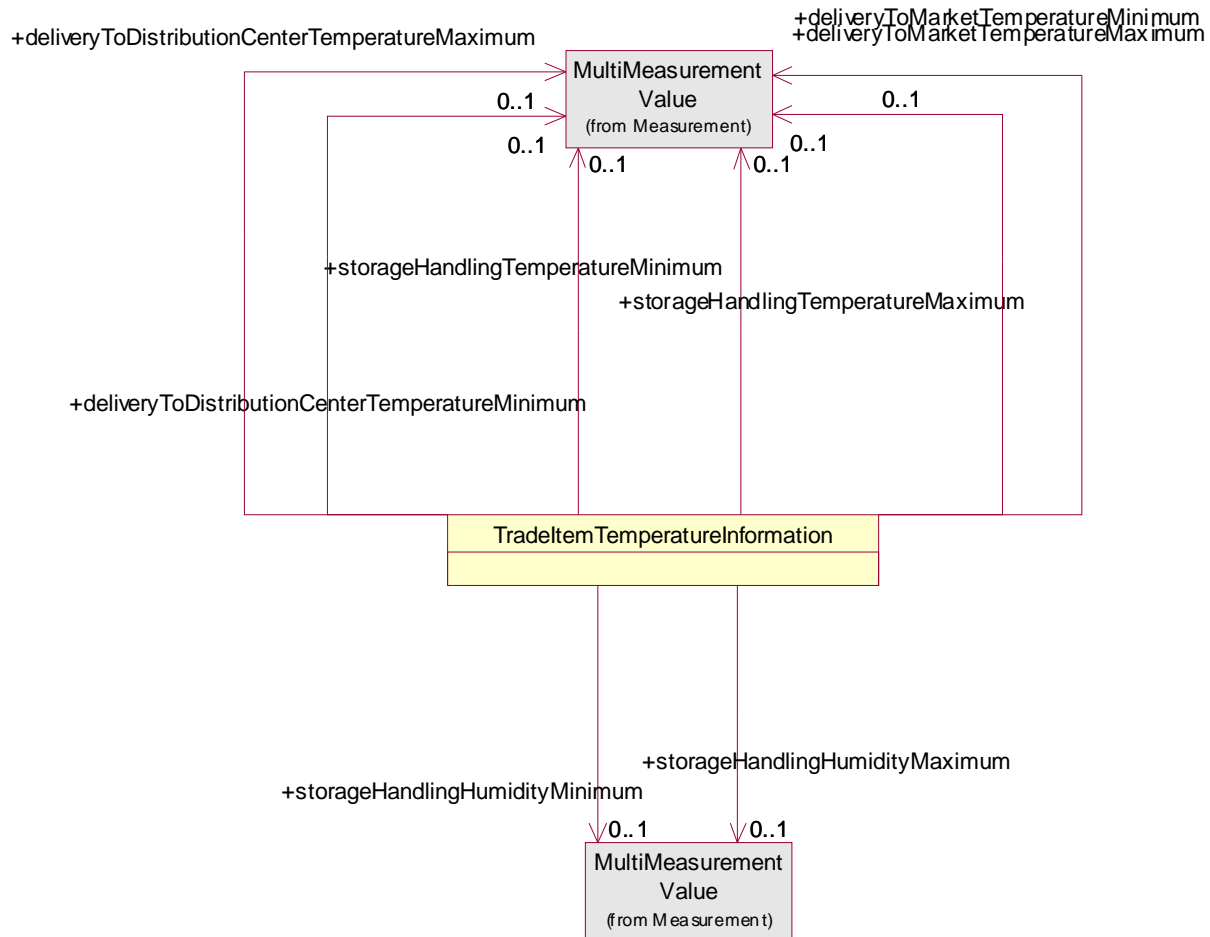
5.2.37. Class Diagram Trade Item Size Description

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

5.2.38. Class Diagram Trade Item Tax Information



5.2.39. Class Diagram Temperature Information



5.2.40. Class Diagram Trade Item Unit Indicator

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

5.3. Code Lists

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

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

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

Code List Name	Code List Description
MaterialAgencyCodeList	
Code Name	Code Description
DIN60001_PART4	N/A

Code List Name	Code List Description
PackageMarksDietAllergenCodeList	
Code Name	Code Description
APPROVED_BY_ASTHMA_AND_ALLERGY_ASSOC	Definitions made by the asthma and allergist association.
APPROVED_FOR_TUBE_FEEDING	The item is physically marked that it is approved for tube feeding by the appropriate authority of the target market.
CONTAINS_LATEX	The item is physically marked as containing Latex (rubber).
CONTAINS_PVC	The item is physically marked as containing PVC (Polyvinyl chloride). Phthalate content is unspecified.
CONTAINS_PVC_WITH_PHTHALATES	The item is physically marked as containing PVC (Polyvinyl chloride) with phthalates.
CONTAINS_PVC_WITHOUT_PHTHALATES	The item is physically marked as containing PVC (Polyvinyl chloride) without phthalates.
DIET_PRODUCT_450_800_KCAL_PER_DAY	The item is physically marked that it is approved for a 450-800 kilocalorie/day diet by the appropriate authority of the target market.
DIET_PRODUCT_800_1200_KCAL_PER_DAY	The item is physically marked that it is approved for a 800-1200 kilocalorie/day diet by the appropriate authority of the target market.
LACTASE_ENZYME	The item is physically marked that it is approved as lactase enzyme by the appropriate authority of the target market.

Code List Name	Code List Description
LOW_ON_PHENYLALANINE	The item is physically marked as containing a low level of phenylalanine as approved by the appropriate authority of the target market.
LOW_ON_SUGAR	The item is physically marked as containing a low level of sugar as approved by the appropriate authority of the target market.
MOTHERS_MILK_SUBSTITUTE	The item is physically marked that it is approved as substitute mother's milk the appropriate authority of the target market.
NUTRITION_SUPPLEMENT	The item is physically marked that it is approved as nutrition supplement by the appropriate authority of the target market.
NYCKELHAL_MARK	Lean product.

Code List Name	Code List Description
PackageMarksEnvironmentCodeList	
Code Name	Code Description
<<Deprecated>> EU_BLOMMA	N/A
EU_ECO_LABEL	The item is physically marked with the European Union Eco label a European environmental initiative supported by the European Commission.
FALKEN	N/A
FOREST_STEWARDSHIP_COUNCIL_LABEL	The item is physically marked with the Forest Stewardship Council label.
GMO_MARKED	The item is physically marked as of genetically modified origin.
GREEN_DOT	N/A
KRAV_MARK	N/A
MARINE_STEWARDSHIP_COUNCIL_LABEL	The item is physically marked with the Marine Stewardship Council label.
RAINFOREST_ALLIANCE	The item is physically marked with the Rainforest Alliance Certified symbol.
SVANEN	N/A
SWEDISH_SEAL_OF_QUALITY	The item is physically marked with the Swedish Seal of Quality label which intends to guarantee the responsibility for the environment of the product.

Code List Name	Code List Description
PackageMarksEthicalCodeList	
Code Name	Code Description
FAIR_TRADE_MARK	Definition that child labour is not used in the supply chain, and other definitions considered as ethical by proper authorities.

Code List Name	Code List Description
PackageMarksFreeFromCodeList	
Code Name	Code Description
FREE_FROM_EGG	Marks if the product is free from egg.
FREE_FROM_FISH	The item is physically marked as being free from fish, as approved by the appropriate authority of the target market.
FREE_FROM_GLUTEN	Marks if the product is free from gluten.
FREE_FROM_LACTOSE	Indicates if the amount of lactose is reduced.
FREE_FROM_LATEX	The item is physically marked being free from Latex (rubber) as approved by the appropriate authority of the target market.
FREE_FROM_LEGUME_PROTEIN	The item is physically marked as being free from legume protein, as approved by the appropriate authority of the target market.
FREE_FROM_MILK	The item is physically marked as being free from milk and any of its derivatives, as approved by the appropriate authority of the target market.
FREE_FROM_MILK_PROTEIN	Free from milk protein.
FREE_FROM_NATURAL_GLUTEN	The item is physically marked as being naturally free from gluten and not extracted as part of the manufacturing process, as approved by the appropriate authority of the target market.
FREE_FROM_PEAUNTS	Marks if the product is free from peanuts.
FREE_FROM_PROTEIN	The item is physically marked as being free from protein, as approved by the appropriate authority of the target market.
FREE_FROM_PVC	The item is physically marked as being free from PVC (Polyvinyl chloride), as approved by the appropriate authority of the target market.
FREE_FROM_SOYA	Free from soya.
FREE_FROM_SUGAR	Marks if the product is free from sugar.
REDUCED_LACTOSE	Indicates if the amount of lactose is reduced.
REDUCED_PROTEIN	The item is physically marked as containing a low level of protein as approved by the appropriate authority of the target market.
WITHOUT_ADDED_SUGAR	The item is physically marked that no sugar has been added when manufacturing the product but it still can contain sugars that are naturally part of the ingredients, as approved by the appropriate authority of the target market.
WITHOUT_ADDED_SWEETENER	The item is physically marked that no sweetener has been added when manufacturing the product as approved by the appropriate authority of the target market.

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

Code List Name	Code List Description
PriceComparisonContentTypeCodeList	
Code Name	Code Description
DRAINED_WEIGHT	Specified using GRM or OZ as unitOfMeasure (price per gram/ounce drained weight).
INCLUDING_ADDITIVES	Specified using MLT or FZ as unitOfMeasure (price per litre/pint drink including additives other than water). Food service.
MILLILITRES_EXCLUDING_DEPOSIT	Specified using MLT as unitOfMeasure (price per litre, not including the package deposit charge)
PER_CUBIC_METRE	The Price Comparison Content specified may be used to calculate the price per cubic metre.
PER_DOSE	Specified using PCE as unitOfMeasure (price per dose)
PER_KILOGRAM	Specified using GRM as unitOfMeasure (price per kilogram).
PER_LITRE	Specified using MLT as unitOfMeasure (price per litre).
PER_LOAD	Specified using PCE as unitOfMeasure (price per load – used for washing-up powder)
PER_METRE	Specified using MMT as unitOfMeasure
PER_PIECE	Specified using PCE as unitOfMeasure (price per piece)
PER_PINT	Specified using FZ as unitOfMeasure (price per pint)
PER_POUND	Specified using OZ as unitOfMeasure (price per pound)
PER_SQUARE_METRE	The Price Comparison Content specified may be used to calculate the price per square metre.
PER_WASH	Specified using PCE as unitOfMeasure (price per wash – used for washing deter-gent)
PER_YARD	Specified using IN as unitOfMeasure (price per yard)
READY_TO_DRINK	Specified using MLT or FZ as unitOfMeasure (price per litre/pint diluted drink).
READY_TO_EAT	Specified using GRM or OZ as unitOfMeasure (price per kilogram/pound prepared food).

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

Code List Name	Code List Description
RFIDTaggedCodeList	
Code Name	Code Description
ALWAYS	The product always will be marked with RFID tags and trading partners can count on it every time.
NEVER	The product never will be marked with RFID tags and trading partners can never expect it.
SOMETIMES	The product may be marked with RFID occasionally. This code is used to represent that not all ship-to-locations are RFID enabled and therefore not all same products would be EPC tagged.

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

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

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

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

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

Code List Name	Code List Description
SizeTypeList	
Code Name	Code Description
BACK	N/A
CHEST_BUST	The measurement around the widest part of the chest/bust.
COLLAR	N/A
CUP	N/A
HIPS	The measurement around the fullest part of the hips.
INSEAM	N/A
LENGTH	N/A
ONE_DIMENSION	N/A
OUTSIDE_LEG	The measurement of the outside leg seam. This is the distance from the waist to the bottom of the trousers.
SLEEVE	N/A
WAIST	N/A
WIDTH	N/A

Code List Name	Code List Description
SpecialItemCodeList	
Code Name	Code Description
COLLATERAL_ITEM	N/A
DYNAMIC_ASSORTMENT	N/A
GIFT_WITH_PURCHASE	N/A
NOT_FOR_RESALE_TO_CONSUMER	Trade items purchased by a retailer for internal use only, not for sale to consumers.
PURCHASE_WITH_PURCHASE	N/A

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

Code List Name	Code List Description
TradeItemExternalInformationType List	Codes indicating the type of information contained in the external file.
Code Name	Code Description
MARKETING_INFORMATION	Link to a file with product information associated with selling a product or service.
OTHER_EXTERNAL_INFORMATION	Link to a file containing product information of an unspecified type.
PRODUCT_IMAGE	Link to a file containing a visual representation of the product.
PRODUCT_LABEL_IMAGE	Link to a file containing a visual representation of the product label.
PLANOGRAM	Link to a file illustrating how and where retail products should be displayed

Code List Name	Code List Description
TradeItemUnitDescriptorList	
Code Name	Code Description
BASE_UNIT_OR_EACH	N/A
CASE	N/A
DISPLAY_SHIPPER	N/A
MIXED_MODULE	N/A
MULTIPACK	N/A
PACK_OR_INNER_PACK	N/A
PALLET	N/A
PREPACK	N/A
PREPACK_ASSORTMENT	N/A
SETPACK	N/A

Code List Name	Code List Description
VariableTradeItemTypeCodeList	
Code Name	Code Description
LOOSE	<p>A trade item which is without packaging at the retail level and whose quantity (the individual pieces, amount, or volume) is selected by the consumer and can be either bagged and bar coded by the consumer or bagged and key-entered or scanned at the point of sale.</p> <p>NOTE: In some industries these types of trade items are commonly referred to as BULK.</p> <p>Examples: cold meats and cheese sold in butchers and delicatessens, fudge cut from bars, loose fruit and vegetables, grains, candy, fresh produce, fabric bolts, spooled chain or rope, nails or snacks.</p> <p>A fixed-measure reel of 100 metres of wire is sold from the supplier to the retailer. At the retailer, the consumer may either buy the entire 100-metre reel at a fixed price for the whole reel, or may request a length of wire to be cut to his requirement at a price per metre. A 10 pound case of candy sold to the retailer. The retailer puts this in bins and prices.</p>

Code List Name	Code List Description
PRE_PACKED	<p>A variable-measure trade item which is provided with packaging that is assembled or produced by the supplier or by the retailer in advance of sale to the consumer.</p> <p>Examples: cheese and deli meats pre-packed and priced by the retailer, chicken breast pre-packed and priced by the supplier before delivery to the retailer, pre-packed fruit and vegetables sold by weight or count (not a fixed price per pack).</p>

6. Business Document Example

NA

7. Implementation Considerations

7.1. Attributes with Code Lists

Class Name	Item Name	Code List
TargetMarketInformation	targetMarketCountryCode	Country Codes ISO3166-1
TargetMarketInformation	targetMarketSubdivisionCode	Country Subdivision Code ISO3166-2
TradeItemPriceDateInformation	cataloguePrice	Codes for the repres. of currencies and funds ISO 4217:2001
TradeItemPriceDateInformation	suggestedRetailPrice	Codes for the repres. of currencies and funds ISO 4217:2001
PriceOnTradeItem	retailPriceOnTradeItem	Codes for the repres. of agencies and codes ISO 4217;2001
TradeItemClassification	classificationCategoryCode	Classification Attribute Type Code
EANUCCTradeItemClassification	eANUCCClassificationAttributeTypeCode	Classification Attribute Type Code
EANUCCTradeItemClassificationValue	eANUCCClassificationAttributeValueCode	Classification Attribute Value Code
ClassificationCategory	additionalClassificationAgencyName	Additional Classification Agency Name Reference 4.8.1
TradeItemDescriptionInformation	invoiceName	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradeItemDescriptionInformation	descriptionShort	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1

Class Name	Item Name	Code List
TradeltemDescriptionInformation	tradeltemFormDescription	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradeltemColorDescription	tradeltemcolorDescription	Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1
TradeltemColorDescription	colorCodeListAgency	Color Code List Agency Reference 4.8.1
TradeltemSizeDescription	sizeCodeListAgency	Size Code List Agency Reference 4.8.1
TradeltemMeasurements	ingredientStrength	Measure Unit Qualifier-TBD
TradeltemMeasurements	genericIngredientStrength	Measure Unit Qualifier-TBD
TradeltemMarking	hasBatchNumber	Batch Lot Number Indicator Code-TBD
FMCGTradeltemMarking	isTradeltemGeneticallyModified	GeneticModificationIndicator-TBD
FMCGTradeltemMarking	isTradeltemIrradiated	Irradiated Item Code List – TBD
OrganicTradeltemCharacteristics	organicTradeltemCode	Organic Item Code Reference 4.8.1
TradeltemMeasurements	netContent	Measure Unit Qualifier
TradeltemMeasurements	Height	UN/CEFACT Recommendation 20
TradeltemMeasurements	Width	UN/CEFACT Recommendation 20
TradeltemMeasurements	Depth	UN/CEFACT Recommendation 20
TradeltemMeasurements	grossWeight	UN/CEFACT Recommendation 20
TradeltemMeasurements	netWeight	UN/CEFACT Recommendation 20
TradeltemMeasurements	Diameter	UN/CEFACT Recommendation 20
TradeltemMeasurements	drainedWeight	UN/CEFACT Recommendation 20
PackagingType	packagingTypeCode	Packaging Type Code Reference 4.8.1
TradeltemMeasurements	pegHorizontal	Measure Unit Qualifier-TBD
TradeltemMeasurements	pegVertical	Measure Unit Qualifier-TBD

Class Name	Item Name	Code List
PackagingMaterial	packagingMaterialCode	Packaging Material Code List Maintenance Agency Reference 4.8.1
PackagingMaterial	packagingMaterialCompositionQuantity	Measure Unit Qualifier-TBD
PackagingMaterial	packagingTermsAndCondition	Packaging Terms and Conditions Reference 4.8.1
TradeltemHandlingInformation	stackingWeightMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	storageHandlingTemperatureMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	storageHandlingTemperatureMinimum	UN/CEFACT Recommendation 20
TradeltemHandlingInformation	handlingInstructionsCode	Handling Instructions – TBD
TradeltemHandlingInformation	minimumTradeltemLifespanFromTimeOfArrival	Unit of Time Period – TBD
TradeltemTemperatureInformation	deliveryToMarketTemperatureMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	deliveryToMarketTemperatureMinimum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	deliveryToDistributionCenterTemperatureMaximum	UN/CEFACT Recommendation 20
TradeltemTemperatureInformation	deliveryToDistributionCenterTemperatureMinimum	UN/CEFACT Recommendation 20
TradeltemOrderInformation	orderingLeadTime	Unit of Time Period – TBD
TradeltemCountryOfOrigin	countryOfOrigin	Country Codes ISO3166-1
TradeltemPalletInformation	palletTypeCode	Pallet Type Code Reference 4.8.1
TradeltemPalletInformation	palletTermsAndConditions	Pallet Terms and Condition Reference 4.8.1
TradeltemHazardousInformation	dangerousGoodsRegulationCode	Dangerous Goods Regulations – TBD
Packaging Material	packagingMaterialCodeListMaintenanceAgency	Household Packaging Recovery and Recycling Agencies
TradeltemHazardousInformation	unitedNationsDangerousGoodsNumber	UNDG Number -DE7124
TradeltemHazardousInformation	classOfDangerousGoods	UN -Class of Dangerous Goods
TradeltemHazardousInformation	flashPointTemperature	UN/CEFACT Recommendation 20
TradeltemDescriptionInformation	productRange	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1

Class Name	Item Name	Code List
TradeItemDescriptionInformation	functionalName	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradeItemSizeDescription	descriptiveSize	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradeItemDescriptionInformation	tradeItemDescription	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradeItemDescriptionInformation	Variant	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1

7.2. External Code Lists

There are several code lists used within the EAN•UCC system that are maintained by agencies other than GS1. 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

GS1 has three choices for code values:

- Reference an external source like ISO.
- Maintain a code list unique to the GS1 system.
- Maintain a code list based on an external code list.

Any code list GS1 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 GS1. In order to provide the best value to the GS1 community the UOM code list will be maintained by GS1 for its community. It is anticipated additional code values will be required. When the business requirements are defined additional code values can be added. The following is the starting point.

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
CT	Carton
CQ	Cartridge
CA	Case
AF	Centigram
C3	Centilitre
CM	Centimetre
1N	Count

Code	Code Description
CV	Cover
CC	Cubic Centimetre
C8	Cubic Decimetre
CF	Cubic Feet
CI	Cubic Inches
CR	Cubic Meter
CO	Cubic Meters(Net)
MMQ	Cubic Millimetre
CU	Cup
DA	Days
DG	Decigram
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
JR	Jar
KE	Keg
KG	Kilogram
DK	Kilometre
KT	Kit
LR	Layer(s)

Code	Code Description
LF	Linear Foot
LM	Linear Meter
LK	Link
LT	Litre
MR	Meter
MP	Metric Ton
MC	Microgram
4G	Microlitre
ME	Milligram
ML	Millilitre
MM	Millimetre
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
PNT	Point: Used to express a credit earned by a party as part of an incentive program.
PTN	Portion
V2	Pouch
LB	Pounds
PE	Pounds Equivalent
PG	Pound Gross
PN	Pounds Net
QT	Quart
QS	Quart Dry
RL	Roll
ST	Set
SH	Sheet
SX	Shipment
FJ	Sizing Factor

Code	Code Description
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

7.3. 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 a GS1 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
	7	EAN Norges Multibransje Varegruppestandard - The ENVA code is used for classification and categorising of goods and it is used as an alternative to the GPC codes in the Norwegian marketplace
	8	Supplier Assigned – A manufacturer's own codification system
	9	AMECE – Code system used in the GS1 Mexico market
	10	CCG - Code system used in the GS1 Germany market
	11	EANFIN - Code system used in the GS1 Finland market
	13	IFLS5 - Code system used in the GS1 France market

Attribute Name	Comments	
	Code	Code Description
	14	CBL - Code system used in the GS1 Netherlands market
	15	Catalogue Item Information Service of Japan JICFS. Classification system maintained by GS1 Japan and used mainly on the Japanese market.
	16	<p>European Union. The economic association of over a dozen European countries which seek to create a unified, barrier-free market for products and services throughout the continent.</p> <p>Category of product eligible for EU subsidy (applies for certain dairy products with specific level of fat content.</p> <p>1 Category I – full milk (>3,5 % fat)</p> <p>2 Category II – standard milk (3,0 – 3,5 % fat)</p> <p>5 Category V – medium fat milk (1,5 – 1,8 % fat)</p> <p>7 Category VII – low fat milk (<0,5 % fat)</p> <p>9 Category IX – other hard cheese (minimum 45% fat)</p> <p>This code list may be subject to change. For information on the latest version refer to the EU administration (in Sweden www.jordbruksverket.se)</p>
	17	GS1 Spain. A product classification system maintained by GS1 Spain and used in the Spanish Market.

7.4. Color Code List Agency

Attribute Name	Comments	
	Code	Code Description
ColorCodeListAgency		Part of TradeItemColorDescription class It is String 1 to 3 characters. This should be a GS1 maintained code List. Values should be:
	1	<p>National Retail Federation – Standard Colour & Size Codes</p> <p>This handbook provides guidelines for use in retailers' and vendors' merchandising and communications systems.</p> <p>http://www.nrf.com</p>

Attribute Name	Comments	
	Code	Code Description
	2	<p>PANTONE MATCHING SYSTEM</p> <p>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.</p> <p>Pantone® Inc http://www.pantone.com</p>
	3	<p>PANTONE Process Colour System®</p> <p>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.</p> <p>The PANTONE Hexachrome® Color System</p> <p>Pantone® Inc http://www.pantone.com</p>
	4	<p>The PANTONE Hexachrome® Color System</p> <p>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</p> <p>Pantone® Inc http://www.pantone.com</p>

Attribute Name	Comments	
	Code	Code Description
	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 Color System. Pantone® Inc http://www.pantone.com
	6	Assigned by Buyer
	7	Assigned by Seller

7.5. Size Code List Agency

Attribute Name	Comments	
	Code	Code Description
sizeCodeListAgency	Part of TradeItemSizeDescription class. It is String 1 to 3 characters. This should be a GS1 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

7.6. Organic Trade Item Code

Attribute Name	Comments	
	Code	Code Description
organicTradeItemCode	Part of OrganicTradeItemCharacteristics class It is String 1 to 35 characters. This should be a GS1 maintained code List.	
	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 isTradeItemGeneticallyModified or isTradeItemIrradiated being true)	

7.7. Organic Claim Agency

Attribute Name	Comments	
	Code	Code Description
organicClaimAgency	Part of OrganicTradeItemCharacteristics class. It is String 1 to 35 characters. It is still not real clear what the usage or intended usage is. This should be a GS1 maintained code List.	
	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

7.8. Packaging Type Code

Attribute Name	Comments	
	Code	Code Description
packagingTypeCode	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.	
	Recommend using ANSI DE 103 Part 1 – Packaging Form and making it a GS1 maintained code list. This seems to be more in line with the intent of this attribute and packagingMaterialCode	
	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 resale
	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

Attribute Name	Comments	
	Code	Code Description
	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

7.9. 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

Code	Code Description
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
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

Code	Code Description
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
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

Code	Code Description
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
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

Code	Code Description
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
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

Code	Code Description
WLC	Wheeled Carrier
WRP	Wrapped

7.10. 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 a GS1 maintained code List.	
	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)

7.11. Packaging Terms and Conditions

Attribute Name	Comments	
	Code	Code Description
packagingTermsAndCondition		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 a GS1 maintained code List.
	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
	12	Recycling Fee Paid Identifies that the package recycling fee for a trade item has already been paid when the item is sold to the retailer.

7.12. Pallet Type Code

Attribute Name	Comments	
	Code	Code Description
palletTypeCode	Part of TradeltemPalletInformation class. It is String 1 to 3 characters. The descriptions are from X12 DE883 and EANCOM DE7065. This should be a GS1 maintained code List.	
	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	

Attribute Name	Comments	
	Code	Code Description
	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
	26	Pallet ISO T11. A standard pallet with standard dimensions 110x110cm used in Asia – Pacific region
	27	Platform of Unspecified Weight or Dimension: Pallet level hierarchy is being shipped on a shipping platform of unknown dimensions or unknown weight. The platform weight or dimension may differ within the same shipment. All other values including null would indicate that the weight and dimensions include the shipping platform.

7.13. 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 packagingTermsAndCondition This should be a GS1 maintained code list.
	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.

Attribute Name	Comments	
	Code	Code Description
	7	Returnable pallet Pallet must be returned to the point of expedition.

7.14. GS1 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
	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	

Attribute Name	Comments	
	Code	Code Description
	54	Special Jumbo
	55	Lead
	58	Metal
	59	Metal Cans
	61	Moisture Resistant
	64	Molded 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 mold surface by evacuating the air between the sheet and the mold
	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 mold
	78	Plastic - Injection Molded Packaging material that is formed by melting the material and then forcing it under pressure into a cavity of a closed mold
	79	Plastic
	80	Polyethylene Lined
	81	Plastic – Virgin Plastic in the form of pellets, granules, powder, floc, or liquid that has not been subjected to use or processing other than for its initial manufacture
	82	Pulpboard
	83	Plastic – Regrind A plastic prepared from discarded articles that have been reprocessed, often changing some of its original properties

Attribute Name	Comments	
	Code	Code Description
	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
	98	Ceramic or Stoneware

7.15. Relationship to Global Data Synchronization Process

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

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

8. Testing

Not Defined.

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

Not Applicable

9. Appendices

9.1. Appendix A: Attribute Variations

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
additionalClassificationAgencyName	E	N (Global)	T.P.Neutral
additionalClassificationCategoryCode	E	N (Global)	T.P.Neutral
additionalClassificationCategoryDescription	E	N (Global)	T.P.Neutral
additionalTradeItemDescription	E	Y (Global/Local)	T.P.Neutral
agreedMaximumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral
agreedMinimumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral
barCodeType	E	N (Global)	T.P.Neutral
brandName	E	N (Global)	T.P.Neutral
brandOwner	E	N (Global)	T.P.Neutral
campaignEndDate	E	N (Global)	T.P.Neutral
campaignName	E	N (Global)	T.P.Neutral
campaignStartDate	E	N (Global)	T.P.Neutral
canceledDate	E	N (Global)	T.P.Neutral
casingTareWeight	E	N (Global)	T.P.Neutral
cataloguePrice	E	Y (Global/Local)	T.P.Neutral
classComplianceRegulationCode	Unknown	N (Global)	T.P.Neutral
classOfDangerousGoods	E	N (Global)	T.P.Neutral
ClassificationCategoryCode	C	N (Global)	T.P.Neutral
ClassificationCategoryDefinition	C	N (Global)	T.P.Neutral
ClassificationCategoryName	C	N (Global)	T.P.Neutral
colorCodeListAgency	E	N (Global)	T.P.Neutral
colorCodeValue	E	N (Global)	T.P.Neutral
colorDescription	E	N (Global)	T.P.Neutral
consumerAvailabilityDateTime	E	Y (Global/Local)	T.P.Neutral
consumerUsageStorageInstructions	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
couponFamilyCode	E	Y (Local)	T.P.Neutral
dangerousGoodsAMarginNumber	E	Y (Local)	T.P.Neutral
dangerousGoodsHazardousCode	E	N (Global)	T.P.Neutral
dangerousGoodsPackingGroup	E	N (Global)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
dangerousGoodsRegulationCode	E	N (Global)	T.P.Neutral
dangerousGoodsShippingName	E	N (Global)	T.P.Neutral
dangerousGoodsTechnicalName	E	N (Global)	T.P.Neutral
deliveryToDistributionCenterTemperatureMaximum	E	Y(Global/Local)	T.P.Neutral
deliveryToDistributionCenterTemperatureMinimum	E	Y(Global/Local)	T.P.Neutral
deliveryToMarketTemperatureMaximum	E	Y(Global/Local)	T.P.Neutral
deliveryToMarketTemperatureMinimum	E	Y(Global/Local)	T.P.Neutral
depositValueEffectiveDate	E	Y (Global/Local)	T.P.Neutral
depositValueEndDate	E	Y (Global/Local)	T.P.Neutral
Depth	E	Y(Global/Local)	T.P.Neutral
descriptionShort	E	N (Global)	T.P.Neutral
descriptiveSize	E	N (Global)	T.P.Neutral
descriptiveSizeDimension	E	N (Global)	T.P.Neutral
Diameter	E	Y(Global/Local)	T.P.Neutral
discontinuedDate	E	Y (Global/Local)	T.P.Neutral
drainedWeight	E	Y(Global/Local)	T.P.Neutral
eANUCCClassificationAttributeTypeCode	E	N (Global)	T.P.Neutral
eANUCCClassificationAttributeTypeDefinition	E	N (Global)	T.P.Neutral
eANUCCClassificationAttributeTypeName	E	N (Global)	T.P.Neutral
eANUCCClassificationAttributeValueCode	E	N (Global)	T.P.Neutral
eANUCCClassificationAttributeValueName	E	N (Global)	T.P.Neutral
effectiveDate	E	Y (Global/Local)	T.P.Neutral
effectiveEndDate	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
effectiveStartDate	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endAvailabilityDateTime	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endDateMaximumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endDateMinimumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
endDateTimeOfExclusivity	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
Firstdeliverydatetime	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
firstOrderDate	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
firstShipDate	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
flashPointTemperature	E	N (Global)	T.P.Neutral
functionalName	E	N (Global)	T.P.Neutral
genericIngredient	E	Y (Local)	T.P.Neutral
genericIngredientStrength	E	Y(Global/Local)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
globalTradeltemNumber	C	N (Global)	T.P.Neutral
goodsPickUpLeadTime	E	Y (Global/Local)	T.P.Neutral
grossWeight	E	Y(Global/Local)	T.P.Neutral
handlingInstructionsCode	E	N (Global)	T.P.Neutral
hasBatchNumber	E	Y (Local)	T.P.Neutral
Height	E	Y(Global/Local)	T.P.Neutral
importClassificationType	E	Y (Global/Local)	T.P.Neutral
importClassificationValue	E	Y (Global/Local)	T.P.Neutral
informationProvider	C	N (Global)	T.P.Neutral
ingredientStrength	E	Y (Global/Local)	T.P.Neutral
invoiceName	E	N (Global)	T.P.Neutral
isBarcodeOnPackageVariableMeasureBar Code	E	N (Global)	T.P.Neutral
isNetContentDeclarationIndicated	E	Y (Global/Local)	T.P.Neutral
isNonSoldTradeltemReturnable	E	Y (Global/Local)	T.P.Neutral
isPackagingMarkedReturnable	E	N (Global)	T.P.Neutral
isPackagingMarkedWithIngredients	E	Y (Local)	T.P.Neutral
isPriceOnPack	E	N (Global)	T.P.Neutral
isTradeltemABaseUnit	E	N (Global)	T.P.Neutral
isTradeltemAConsumerUnit	E	N (Global)	T.P.Neutral
isTradeltemADispatchUnit	E	Y (Global/Local)	T.P.Dependent
isTradeltemAnInvoiceUnit	E	Y (Global/Local)	T.P.Dependent
isTradeltemAnOrderableUnit	E	Y (Global/Local)	T.P.Dependent
isTradeltemAVariableUnit	E	N (Global)	T.P.Neutral
isTradeltemMarkedAsRecyclable	E	Y (Global/Local)	T.P.Neutral
isTradeltemReorderable	E	Y (Global/Local)	T.P.Neutral
isTradeltemSizedBasedPricing	E	Y (Global/Local)	T.P.Neutral
lastChangeDateTime	E	N (Global)	T.P.Neutral
lastOrderDate	E	Y (Global/Local)	T.P.Neutral
lastShipDate	E	Y (Global/Local)	T.P.Neutral
layerHeight	E	N (Global)	T.P.Neutral
Linktoexternaldescription	E	Y (Global/Local)	T.P.Neutral
Manufacturer	E	N (Global)	T.P.Neutral
materialAgencyCode	E	N (Global)	T.P.Neutral
materialCode	E	N (Global)	T.P.Neutral
materialContent	E	N (Global)	T.P.Neutral
materialPercentage	E	N (Global)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
materialSafetyDataSheetNumber	E	N (Global)	T.P.Neutral
materialWeight	E	N (Global/Local)	T.P.Neutral
maximumBuyingQuantity	Unknown	Y (Global/Local)	T.P.Neutral
minimumTradelItemLifespanFromTimeOfArrival	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
minimumTradelItemLifespanFromTimeOfProduction	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
nameOfBrandOwner	E	N (Global)	T.P.Neutral
nameOfInformationProvider	E	N (Global)	T.P.Neutral
nameOfManufacturer	E	N (Global)	T.P.Neutral
nestingIncrement	E	N (Global)	T.P.Neutral
netContent	E	N (Global)	T.P.Neutral
netWeight	E	Y(Global/Local)	T.P.Neutral
offerOnPack	E	Y (Local)	T.P.Neutral
openedTradelItemLifeSpan	E	N(Global)	T.P.Neutral
orderingLeadTime	E	Y (Global/Local)	T.P.Neutral
orderQuantityMaximum	E	Y (Global/Local)	T.P.Dependent
orderQuantityMinimum	E	Y (Global/Local)	T.P.Dependent
orderQuantityMultiple	E	Y (Global/Local)	T.P.Neutral
orderSizingFactor	E	Y (Global/Local)	T.P.Neutral
orderingUnitOfMeasure	E	Y (Global)	T.P.Neutral
organicClaimAgency	E	Y (Global/Local)	T.P.Neutral
organicTradelItemCode	E	Y (Global/Local)	T.P.Neutral
packageMarksEnvironment	E	Y (Local)	T.P.Neutral
packageMarksDietAllergen	E	Y (Local)	T.P.Neutral
packageMarksEthical	E	Y (Local)	T.P.Neutral
packageMarksFreeFrom	E	Y (Local)	T.P.Neutral
packagingMarkedExpirationDateType	E	Y (Local)	T.P.Neutral
packagingMarkedRecyclableScheme	E	Y (Local)	T.P.Neutral
packagingMaterialCodeListMaintenanceAgency	E	Y (Global/Local)	T.P.Neutral
packagingMaterialCompositionQuantity	E	Y (Global/Local)	T.P.Neutral
packagingMaterialDescription	E	Y (Global/Local)	T.P.Neutral
packagingTermsAndCondition	E	N (Global)	T.P.Neutral
packagingTypeCode	E	N (Global)	T.P.Neutral
packagingTypeDescription	E	N (Global)	T.P.Neutral
packagingWeight	E	N (Global)	T.P.Neutral
palletTermsAndConditions	E	Y (Global/Local)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
palletTypeCode	E	Y (Global/Local)	T.P.Neutral
partyReceivingPrivateData	E	N (Global)	T.P.Dependent
pegHoleNumber	E	N (Global)	T.P.Neutral
pegHorizontal	E	Y(Global/Local)	T.P.Neutral
pegVertical	E	Y(Global/Local)	T.P.Neutral
priceByMeasureType	E	Y (Global/Local)	T.P.Dependent
priceComparisonContentType	E	Y (Global)	T.P.Neutral
priceComparisonMeasurement	E	Y(Global/Local)	T.P.Neutral
productRange	E	N (Global)	T.P.Neutral
publicationDate	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
quantityOfChildren	E	N (Global)	T.P.Neutral
quantityOfCompleteLayersContainedInATradeltem	E	N (Global)	T.P.Neutral
quantityOfInnerPack	E	N (Global)	T.P.Neutral
quantityOfLayersPerPallet	E	Y(Global/Local)	T.P.Neutral
quantityOfNextLevelTradeltemWithinInnerPack	E	N (Global)	T.P.Neutral
quantityofNextLowerLevelTradeltem	E	N (Global)	T.P.Neutral
quantityOfTradeltemsContainedInACompleteLayer	E	N (Global)	T.P.Neutral
quantityOfTradeltemsPerPallet	E	Y(Global/Local)	T.P.Neutral
quantityOfTradeltemsPerPalletLayer	E	Y(Global/Local)	T.P.Neutral
replacedTradeltemIdentification	E	Y (Global/Local)	T.P.Neutral
retailPriceOnTradeltem	E	N (Global)	T.P.Neutral
returnablePackageDepositCode	E	Y (Global/Local)	T.P.Neutral
returnablePackageDepositAmount	E	Y (Global/Local)	T.P.Neutral
rFIDTaggedCode	E	Y(Global/Local)	T.P.Neutral & T.P.Dependent
seasonCalendarYear	E	Y (Local)	T.P.Neutral
seasonParameter	E	Y (Local)	T.P.Neutral
seasonalAvailabilityEndDate	E	Y (Local)	T.P.Neutral
seasonalAvailabilityStartDate	E	Y (Local)	T.P.Neutral
seasonName	E	Y (Local)	T.P.Neutral
securityTagLocation	E	Y (Local)	T.P.Neutral
securityTagType	E	Y (Local)	T.P.Neutral
sellingUnitOfMeasure	E	Y (Global/Local)	T.P.Neutral
shipFromLocation	E	Y(Global/Local)	T.P.Neutral & T.P.Dependent
sizeCodeListAgency	E	N (Global)	T.P.Neutral
sizeCodeValue	E	N (Global)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
sizeDimension	E	N (Global)	T.P.Neutral
sizeGroup	E	N (Global)	T.P.Neutral
sizeSystem	E	N (Global)	T.P.Neutral
sizeType	E	N (Global)	T.P.Neutral
specialItemCode	E	Y (Global/Local)	T.P.Neutral
stackingFactor	E	N (Global)	T.P.Neutral
stackingWeightMaximum	E	Y(Global/Local)	T.P.Neutral
startAvailabilityDateTime	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
startDateMaximumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral
startDateMinimumBuyingQuantity	E	Y (Global/Local)	T.P.Neutral
storageHandlingHumidityMaximum	E	Y(Global/Local)	T.P.Neutral
storageHandlingHumidityMinimum	E	Y(Global/Local)	T.P.Neutral
storageHandlingTemperatureMaximum	E	Y(Global/Local)	T.P.Neutral
storageHandlingTemperatureMinimum	E	Y(Global/Local)	T.P.Neutral
subBrand	E	N (Global)	T.P.Neutral
suggestedRetailPrice	E	Y (Global/Local)	T.P.Neutral
targetConsumerAge	E	Y (Local)	T.P.Neutral
targetConsumerGender	E	Y (Local)	T.P.Neutral
targetMarketCountryCode	C	N (Global)	T.P.Neutral
targetMarketDescription	C	N (Global)	T.P.Neutral
targetMarketSubdivisionCode	C	N (Global)	T.P.Neutral
taxAgencyCode	E	Y (Global/Local)	T.P.Neutral
taxAmount	E	Y (Global/Local)	T.P.Neutral
taxRate	E	Y (Global/Local)	T.P.Neutral
taxTypeCode	E	Y (Global/Local)	T.P.Neutral
taxTypeDescription	E	Y (Global/Local)	T.P.Neutral
threadCount	E	N (Global)	T.P.Neutral
totalQuantityOfNextLowerLevelTradeItem	E	N (Global)	T.P.Neutral
tradeItemCompositionWidth	E	N (Global)	T.P.Neutral
tradeItemCountryOfAssembly	E	N (Global)	T.P.Neutral
tradeItemCountryOfOrigin	E	N (Global)	T.P.Neutral
tradeItemDescription	C	N (Global)	T.P.Neutral
tradeItemFeatureBenefit	E	N (Global)	T.P.Neutral
tradeItemFinishDescription	E	N (Global)	T.P.Neutral
tradeItemFormDescription	E	N (Global)	T.P.Neutral
tradeItemGroupIdentificationCode	E	N (Global)	T.P.Neutral
tradeItemGroupIdentificationDescription	E	N (Global)	T.P.Neutral

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), Y (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral) or Both
tradeItemIdentificationOfNextLowerLevelTradeItem	E	N (Global)	T.P.Neutral
tradeItemMarketingMessage	E	Y (Global/Local)	T.P.Neutral
tradeItemUnitDescriptor	C	N (Global)	T.P.Neutral
unitedNationsDangerousGoodsNumber	E	N (Global)	T.P.Neutral
variant	E	N (Global)	T.P.Neutral
variableTradeItemType	E	Y (Global/Local)	T.P.Neutral
Width	E	Y (Global/Local)	T.P.Neutral

9.2. Appendix B: Attribute Associations

Resolved Item Name	Mixed Module Pallet (PL) (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
isTradeItemABaseUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAConsumerUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemADespatchUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAnOrderableUnit	M	N	M	N	M	N	M	N	M	N	M	N
isTradeItemAnInvoiceUnit	M	N	M	N	M	N	M	N	M	N	M	N
orderQuantityMultiple	O	N	O	N	O	N	O	N	O	N	O	N
orderQuantityMinimum	O	N	O	N	O	N	O	N	O	N	O	N
orderQuantityMaximum	O	N	O	N	O	N	O	N	O	N	O	N
orderSizingFactor	O	N	O	N	O	N	O	N	O	N	O	N
nameOfInformation Provider	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
totalQuantityOfNextLowerLevelTradeItem	M	N	M	N	M		M	N	M	N		
brandOwner	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
nameOfBrandOwner	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
partyReceivingPrivateData	D	Y	D	Y	D	Y	D	Y	D	Y	D	Y
Manufacturer	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
nameOfManufacturer	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
netContent	D	N	D	N	D	N	D	N	D	N	D	N
isNetContentDeclarationIndicated	O	N	O	N	O	N	O	N	O	N	O	N
Height	M	N	M	N	M	N	M	N	M	N	M	N



Resolved Item Name	Mixed Module Pallet (PL) (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
Width	M	N	M	N	M	N	M	N	M	N	M	N
Depth	M	N	M	N	M	N	M	N	M	N	M	N
grossWeight	D	N	D	N	D	N	D	N	D	N	D	N
netWeight	O	N	O	N	O	N	O	N	O	N		
Diameter											O	N
drainedWeight											O	N
effectiveDate	M	N	M	N	M	N	M	N	M	N	M	N
lastChangeDateTime	M	N	M	N	M	N	M	N	M	N	M	N
publicationDate	M	N	M	N	M	N	M	N	M	N	M	N
startAvailabilityDateTime	M	N	M	N	M	N	M	N	M	N	M	N
endAvailabilityDateTime	O	N	O	N	O	N	O	N	O	N	O	N
consumerAvailabilityDateTime											O	N
discontinuedDate	O	N	O	N	O	N	O	N	O	N	O	N
canceledDate	O	N	O	N	O	N	O	N	O	N	O	N
dangerousGoodsRegulationCode	D	N	D	N	D	N	D	N	D	N	D	N
unitedNationsDangerousGoodsNumber	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsShippingName	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsTechnicalName	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsPackingGroup	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsHazardousCode	D	N	D	N	D	N	D	N	D	N	D	N
dangerousGoodsAMarginNumber	D	N	D	N	D	N	D	N	D	N	D	N
flashPointTemperature											O	N
stackingWeightMaximum	O	N	O	N	O	N	O	N	O	N	O	N
storageHandlingTemperatureMaximum	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
storageHandlingTemperatureMinimum	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
handlingInstructionsCode	O	N	O	N	O	N	O	N	O	N	O	N
deliveryToMarketTemperatureMaximum											O	N
deliveryToMarketTemperatureMinimum											O	N



Resolved Item Name	Mixed Module Pallet (PL) (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
deliveryToDistributionCenterTemperatureMaximum											O	N
deliveryToDistributionCenterTemperatureMinimum											O	N
orderingLeadTime	O	N	O	N	O	N	O	N	O	N	O	N
palletTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
quantityOfTradeItemsPerPallet					O	N	O	N	O	N	O	N
quantityOfLayersPerPallet											O	N
quantityOfTradeItemsPerPalletLayer					O	N	O	N	O	N	O	N
quantityOfTradeItemsContainedInACompleteLayer	O	N	O	N	O	N	O	N	O	N		
palletTermsAndConditions	O	N										
tradeItemUnitDescriptor	M	N	M	N	M	N	M	N	M	N	M	N
invoiceName	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemFormDescription											O	N
productRange											O	N
subBrand											O	Y
functionalName	M	N	M	N	M	N	M	N	M	N	M	N
descriptiveSize	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
Variant											O	N
colorCodeValue											O	N
colorDescription											O	N
colorCodeListAgency											O	N
suggestedRetailPrice											O	N
retailPriceOnTradeItem											O	N
couponFamilyCode											O	N
genericIngredient											O	N
genericIngredientStrength											O	N
hasBatchNumber											O	N
isTradeItemGeneticallyModified											O	N
isTradeItemIrradiated											O	N
organicTradeItemCode											O	N
organicClaimAgency											O	N
isTradeItemAVariableUnit	M	N	M	N	M	N	M	N	M	N	M	N

Resolved Item Name	Mixed Module Pallet (PL) (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
percentageOfAlcoholByVolume											O	N
fatPercentageInDryMatter											O	N
degreeOfOriginalWort	O	N	O	N	O	N	O	N	O	N	O	N
isBarcodeOnThePackage	M	N	M	N	M	N	M	N	M	N	M	N
isPackagingMarkedReturnable	M	N	M	N	M	N	M	N	M	N	M	N
minimumTradeItemLifespanFromTimeOfArrival											O	N
countryOfOrigin											O	N
isTradeItemMarkedAsRecyclable											O	N
isNonSoldTradeItemReturnable											O	N
taxTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
taxTypeDescription	O	N	O	N	O	N	O	N	O	N	O	N
taxRate	O	N	O	N	O	N	O	N	O	N	O	N
taxAmount	O	N	O	N	O	N	O	N	O	N	O	N
taxAgencyCode	O	N	O	N	O	N	O	N	O	N	O	N
targetMarketCountryCode	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
targetMarketSubdivisionCode	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
targetMarketDescription	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
ingredientStrength											O	N
sizeCodeValue											O	N
sizeCodeListAgency											O	N
cataloguePrice	O	N	O	N	O	N	O	N	O	N	O	N
effectiveStartDate	D	N	D	N	D	N	D	N	D	N	D	N
effectiveEndDate	O	N	O	N	O	N	O	N	O	N	O	N
packagingTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
packagingTypeDescription	O	N	O	N	O	N	O	N	O	N	O	N
pegHorizontal											O	N
pegVertical											O	N
quantityOfInnerPack	O	N	O	N	O	N	O	N	O	N	O	N
quantityOfNextLevelTradeItemWithinInnerPack	O	N	O	N	O	N	O	N	O	N	O	N
packagingMaterialCode	O	N	O	N	O	N	O	N	O	N	O	N
packagingMaterialDescription	O	N	O	N	O	N	O	N	O	N	O	N

Resolved Item Name	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
packagingMaterialCompositionQuantity	D	N	D	N	D	N	D	N	D	N	D	N
isPackagingMarkedWithIngredients											O	N
quantityOfCompleteLayersContainedInATradeItem		N	O	N	O	N	O	N	O	N		
quantityOfTradeItemsContainedInACompleteLayer	O	N	O	N	O	N	O	N	O	N		
packagingMaterialCodeListMaintenanceAgency	D	A	D	A	D	A	D	A	D	A	D	A
packagingMarkedRecyclableScheme	M	N	M	N	M	N	M	N	M	N	M	N
materialSafetyDataSheetNumber	O	N	O	N	O	N	O	N	O	N	O	N
descriptionShort											O	N
brandName	M	N	M	N	M	N	M	N	M	N	M	N
tradeItemDescription	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
informationProvider	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
globalTradeItemNumber	O	N	O	N	O	N	O	N	O	N	O	N
classificationCategoryCode											O	N
classificationCategoryName											O	N
classificationCategoryDefinition											O	N
eANUCCClassificationAttributeTypeCode											O	N
eANUCCClassificationAttributeTypeName											O	N
eANUCCClassificationAttributeTypeDefinition											O	N
eANUCCClassificationAttributeValueCode											O	N
eANUCCClassificationAttributeValueName											O	N
additionalClassificationCategoryCode	O	N	O	N	O	N	O	N	O	N	O	N
additionalClassificationCategoryDescription	O	N	O	N	O	N	O	N	O	N	O	N
additionalClassificationAgencyName	O	N	O	N	O	N	O	N	O	N	O	N
quantityofNextLowerLevelTradeItem	M	N	M	N	M	N	M	N	M	N	M	N

Resolved Item Name	Mixed Module Pallet (PL) (MX)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on	M/O/D Status	Comm on
tem										
quantityOfChildren	M	N	M	N	M	N	M	N	M	N
TradeltemGroupIdentificationCode										O N
tradeltemGroupIdentificationDescription										D N
ReplacedTradeltemIdentification	O	N	O	N	O	N	O	N	O	N
classOfDangerousGoods	D	N	D	N	D	N	D	N	D	N
packagingTermsAndCondition	O	N	O	N	O		O	N	O	N
barCodeType	O	N	O	N	O		O	N	O	N
AdditionalTradeltemDescription	O	N	O	N	O		O	N	O	N
stackingFactor	O	N	O	N	O		O	N	O	N
isBarCodeOnPackageVariableMeasureBarCode	O	Y	O	Y	O	Y	O	Y	O	Y
rFIDTaggedCode	O	N	O	N	O	N	O	N	O	N
layerHeight	O	N	O	N						
packagingWeight	O	N	O	N	O	N	O	N	O	N
nestingIncrement									O	N
casingTareWeight										O
consumerUsageStorageInstructions									O	Y
openedTradeltemLifeSpan									O	Y
isPriceOnPack									O	N
shipFromLocation	O	Y	O	Y	O	Y	O	Y	O	Y

9.3. Appendix C: Trade Item Descriptor Usage

tradeltemDescriptor	Description	Parents	Parents Instance	Children	Children Instance
(MX) Mixed Module	A unit load that contains several unique GTINs OR a "display ready pallet" that may contain a single GTIN or several unique GTINs that is intended to go directly to the selling floor. Includes box pallet	None	N/A	DS, CA, PK, AP(SP), EA	Single/Multiple
(PL) Pallet	A unit load that contains a single GTIN that is not display ready. Includes box pallet	None	N/A	DS, CA, ,PK, AP(SP), EA	Single

tradeltemDescriptor	Description	Parents	Parents Instance	Children	Children Instance
(DS) Display/ Shipper	A shipping unit that is a display (can contain a single instance of a GTIN or contains more than one unique instance of a GTIN) OR a case that contains more than one unique instance of a GTIN. Includes an ½ or ¼ pallet and an ½ or ¼ b box pallet and prepack	MX, PL, DS, CA	Single/ Multiple	DS, CA, PK AP(SP), EA	Single/ Multiple
(CA) Case	A standard trade item shipping unit. Includes an ½ or ¼ pallet and an ½ or ¼ b box pallet	MX, PL, DS, CA	Multiple	DS, CA, PK, AP (SP) EA	Single
(PK) Pack / Innerpack	May be a logistical unit between a case and each may or may not be bar-coded that contains a single instance of a GTIN OR a consumer unit that contains single instance of a lower level GTIN that is typically bar-coded	MX, PL, DS, CA, PK, AP(SP)	Multiple	PK, AP(SP) , EA	Single
(AP) Assorted Pack/Setpack	May be a logistical unit between a case and each may or may not be bar-coded that contains multiple instances of unique GTINs OR a consumer unit that contains multiple instances of lower level GTINs that are typically bar-coded	MX, PL, DS, CA, PK, AP(SP)	Multiple	PK, AP(SP), EA	Multiple
(EA) Each	The lowest level of the item hierarchy intended or labelled for individual resale. Includes multi-pack	PL, MX, DS, CA, PK, AP(SP)	Multiple	None	N/A

10. Summary of Changes

Change	BMS Version	Associated CR Number
1.5.4 Changed Trade Item Information Class Diagram for relationship to GDSNTradeltemClassification.	9.0.3	
1.5.22 Changed Trade Item Classification to GDSNTradeltemClassification		

Change	BMS Version	Associated CR Number
<p>Made following attributes optional</p> <ul style="list-style-type: none"> packagingMaterialDescription packagingTypeDescription additionalClassificationCategoryDescription classificationCategoryDefinition classificationCategoryName eANUCCClassificationAttributeName eANUCCClassificationAttributeValueName tradelItemDescription taxTypeDescription <p>Deprecated the value EAN_UCC_14 Symbol from and added NO_BARCODE to Bar Code Type List.</p> <p>Changed Attribute Association by Trade Item Hierarchy Level for Net Content to allow for population at all levels.</p> <p>Changed field length of subBrand to 1..70 and TradelItemDescription.text to 1..178.</p> <p>Section 1.9.2</p> <p>Per Align CR 04-000069 - Updated Table for following attributes allowing for population at any level of the product hierarchy.</p> <ul style="list-style-type: none"> quantityOfLayersPerPallet quantityOfTradelItemsContainedInACompleteLayer palletTypeCode PalletTermsAndConditions <p>Changed packagingTermsandConditions to packagingTermsAndCondition.</p> <p>Updated definition of TradelItemDescription to eliminate field length references.</p>	9.0.4 – 9.0.5	05-000389, 04-000129
<p>Updated the following code lists with new code values requested by the GDSN MR1</p> <ul style="list-style-type: none"> Special Item Code List (NOT_FOR_RESALE_TO_CONSUMER) Packaging Material Code List (98) Size Type Code List (CHEST_BUST, HIP,OUTSIDE_LEG) Additional Classification Agency Name Code List (7,8,9,10,11,12,13,14) Packaging Terms and Conditions Code List (12) <p>Added business rules from Item BRD to section 1.4.2</p> <p>Added Core and Extension Information to Appendix A.</p> <p>Updated Business Rules for Target Market Subdivision Code, Functional Name, Trade Item Country Of Origin, Net Weight.</p>	9.0.6	06-000182, 06-000275, 06-000313, 06-000331, 06-000340, 06-000343
<p>Removed Code 12 (ECC) from the AdditionalClassificationAgencyCodeList</p>	9.0.7	07-000276



Change	BMS Version	Associated CR Number
<p>BMS Template Migration to BMS Template V1.8</p> <p>Added the code value to handle EU Dairy Subsidy Category in to the Additional Classification Agency Code List.</p> <p>Changed the attributes quantityOfTradelItemsPerPalletLayer, quantityOfLayersPerPallet and quantityOfTradelItemsPerPallet to be variable by Target Market.</p> <p>Added a new code value to the Pallet Type Code List: Platform of Unspecified Weight or Dimension. Code List Number 27.</p> <p>Updated the data type ingredientStrength in the GDD report to Multi Measurement to match the model.</p> <p>Added a new attribute rFIDTaggedCode to the Trade Item Neutral Trade Item Information class.</p> <p>Added a new attribute isBarCodeOnPackageVariableMeasureBarCode to the Trade Item Neutral Trade Item Information class.</p> <p>Added new attribute layerHeight to the Trade Item Measurements class.</p> <p>Added new attribute nestingIncrement to the Trade Item Measurements class.</p> <p>Added new attribute packagingWeight to the Packaging Type class.</p> <p>Added new attribute casingTareWeight to the Trade Item Measurements class.</p> <p>Added new attribute openedTradelItemLifespan to the Trade Item Handling Information class.</p> <p>Added new attribute consumerUsageStorageInstructions to the Trade Item Handling Information class.</p> <p>Changed multiplicity on the suggestedRetailPrice attribute.</p> <p>Added new attribute isPriceOnPack to the Packaging Marking class.</p> <p>Change the packagingMaterialCode, packagingMaterialCodeListMaintenanceAgency and packagingMaterialCompositionQuantity multiplicity to be optional.</p> <p>Changed the attribute sizeCodeListAgency and sizeCodeValue multiplicity to be optional.</p> <p>Changed the attribute flashPointTemperature to be optional.</p> <p>Added shipFromLocation Name and GLN to Trade Item Neutral Trade Item Information.</p> <p>Added new code value to handle Pallet to the Pallet ISO T11 in to the Pallet Type Code List. Code Value 26.</p> <p>Added new code value to handle the JICFS classification on the Additional Classification Agency Code List. Code Value 15.</p> <p>New rule added for all the attributes with Multimeasurement data type</p> <p>All the attributes with multi measurement data type changed from Global to (Global/Local)</p> <p>Rule "For consumer unit, Net Content replaces Net Weight (can then be weight, size, volume). Has to be associated with a valid UoM." Related to net weight removed.</p> <p>Added Link to External File Information from Trade Item Description Information and associated code list TradelItemExternalInformationTypeList. Deprecated the attribute linkToExternalDescription.</p> <p>Added two new attributes to the ExternalFileInformation link fileEffectiveEndDateTime and fileEffectiveStartDateTime</p> <p>Added following values to PackageMarksDietAllergen Code List: APPROVED_FOR_TUBE_FEEDING, DIET_PRODUCT_450-800_KCAL/D, DIET_PRODUCT_800-1200_KCAL/D, NUTRITION_SUPPLEMENT, LACTASE_ENZYME, MOTHERS_MILK_SUBSTITUTE, CONTAINS_PVC, CONTAINS_PVC_WITH_PHTHALATES,CONTAINS_PVC_WITHOUT_PHTHALATES, LOW_ON_PHENYLALANINE, LOW_ON_SUGAR</p> <p>Added the following values to packageMarksFreeFrom Code List: CONTAINS_LATEX,FREE_FROM_FISH, FREE_FROM_LATEX, FREE_FROM_PROTEIN, FREE_FROM_LEGUME_PROTEIN, FREE_FROM_MILK, FREE_FROM_NATURAL_GLU TEN, FREE FROM PVC, REDUCED_PROTEIN, WITHOUT_ADDED_SUGAR, WITHOUT_ADDED_SWEETENER</p> <p>Added the following values to packageMarksEnvironment code list: MARINE_STEWARDSHIP_COUNCIL_LABEL_RAINFOREST_ALLIANCE</p>	9.0.8	

Change	BMS Version	Associated CR Number
<p>Per requirement changed relationship to priceOnTradeItem to 0..* .</p> <p>Reverted suggestedRetailPrice to 0..1 (same as last release) as this attribute was not required to be made 0..*</p> <p>Added example from approved BRD to NestingIncrement definition.</p> <p>Deprecated the code value EU_BLOMMA on PackageMarksEnvironmentCodeList as this value has been replaced by EU_ECO_LABEL.</p> <p>Moved CONTAINS_LATEX to PackageMarksDietAllergen code list.</p>	9.0.9	Comment Review
<p>Updated definition of pallet type code 27 to read that "All other values including null would indicate that the weight and dimensions include the shipping platform.</p>	9.1.0	Errata found during e-ballot.
<p>Added definitions for code list values "LOOSE" and "PRE_PACKED" in the VariableMeasureTradeItem Code List.</p> <p>Added the Value 17 to additionalClassificationAgency Code List.</p> <p>Added the value PNT to represent Points to the Unit of Measure code list.</p>	9.1.1	Code List Update