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

BMS Release: 2.3.1, BRG Name: GDSN

Issue 9.2.8, 7-Apr-2009

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Align/Trade Item (Data Definition)
BMS Release	2.3.1
BRG Name	GDSN
Document Number	Issue 9.2.8
Date Last Modified	7-Apr-2009
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

All contents copyright © GS1

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
14-Jun-2007	P&G	07-000233
15-Oct-2007	Carrefour	07-000348
11-Jan-2005	GS1 France	05-000005
29-May-2007	GXS	07-000223
04-Jun-2007	GS1 Nederland	07-000228
28-Jul-2007	Agentrics on behalf of GDSN Modular Item WG	07-000292
28-Jul-2007	Agentrics on behalf of GDSN Modular Item WG	07-000293
28-Jul-2007	Agentrics on behalf of GDSN Modular Item WG	07-000294
01-Aug-2007	GS1 Sweden	07-000301
08-Aug-2007	1SYNC	07-000305
31-Aug-2007	GS1 Nederland	07-000316
26-Sep-2007	Agentrics on behalf of GDSN Modular Item WG	07-000336
08-Oct-2007	GS1 Nederland	07-000343
09-Oct-2007	Nestlé	07-000344
23-Oct-2007	Agentrics	07-000376
23-Oct-2007	Agentrics	07-000377
24-Oct-2007	GS1 Canada	07-000395
29-Oct-2007	GS1 UK	07-000409
19-Nov-2007	1Sync	07-000429
18-Dec-2007	Kraft Foods	07-000457
18-Jan-2008	1Sync	08-000011
16-Sep-2008	GS1 Australia	08-000220
16-Oct-2008	GS1 Austria GmbH	08-000247
09-Nov-2008	SA2 Worldsync GmbH	08-000258
16-Sep-2008	SA2 Worldsync GmbH	08-000227
20-Jan-2009	GS1	09-000005

All contents copyright © GS1

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
12-Dec-2008	GS1 Canada	08-000280

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
{ref5} BRAD For GDSN Item Maintenance Release 3		0.0.2

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.	
12-Jun-2007	9.0.5	Eric Kauz	• 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	• 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	

All contents copyright © GS1

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
05-Jul-2007	9.0.7	Eric Kauz	• 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	• 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	
13-May-2008	9.2.0	Eric Kauz	• MR3 Changes see Document Change History		
12-Jun-2008	9.2.5	Eric Kauz	• Fixed typo on new attribute - istradeItemPackedIrregularly		
12-Aug-2008	9.2.6	Eric Kauz	• Changed to UTZ_KAPEH to UTZ CERTIFIED and expand target market. In definition. • Changed the code list value EUROPEAN_UNION_FLOWER: in Class Compliance Code to EU_ECO_LABEL. • Added EU_ORGANIC_FARM to packageMarksEnvironment code list. • Clarified business rule for Clamp Pressure. • Changed status of tradeItemCompositionDepth to global. • Changed definition on EKO value to be more clear. • Changed business rules for file type, file start effective date and file name to make them conditional on the file being an image.	Public Review Comments	
15-Sept-2008	9.2.7	Eric Kauz	• Specified Unit of Measure to populate for TradeItemCompositionWidth and TradeItemCompositionDepth • Eliminated reference to autopopulation of TradeItemDescription.	Errata	

All contents copyright © GS1

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
07-Apr-2009	9.2.8	Eric Kauz	• Code List Updates oAdditional Classification Agency oCode Organic Claim Agency o Display Resolution Code List	o 08-000220 o 08-000247 o 08-000258 o 08-000227 o 09-000005 o Errata	

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.

All contents copyright © GS1

Table of Contents

1. Business Domain View 9
1.1. Problem Statement / Business Need 9
1.2. Objective 9
1.3. Audience 9
1.4. References 9
1.5. Acknowledgements 11
1.5.1. BRG Work Group 11
1.5.2. Design Team Members 12

2. Business Context 13

3. Additional Technical Requirements Analysis 13
3.1. Technical Requirements (optional) 13

4. Business Transaction View 14
4.1. Business Transaction Use Case Diagram 14
4.2. Use Case Description 14
4.3. Business Transaction Activity Diagram(s) 28
4.4. Business Transaction Sequence Diagram(s) (optional) 28

5. Information Model (Including GDD Report) 29
5.1. GDD Report 29
5.2. Class Diagrams 78
5.2.1. Class Diagram for Trade Item 78
5.2.2. Class Diagram for Trade Item Information 79
5.2.3. Class Diagram Trading Partner Neutral Trade Item Information Relationship 80
5.2.4. Class Diagram Brand Owner Of Trade Item 81
5.2.5. Class Diagram GDSN Trade Item Classification 82
5.2.6. Class Diagram Manufacturer Of Trade Item 83
5.2.7. Class Diagram Marketing Information 83
5.2.8. Class Diagram Material Composition 83
5.2.9. Class Diagram Material Safety Data 83
5.2.10. Class Diagram Non Package Trade Item Dimension 84
5.2.11. Class Diagram Ordering and Selling Unit Of Measure 84
5.2.12. Class Diagram Organic Trade Item Characteristics 84
5.2.13. Class Diagram Packaging Marking 85
5.2.14. Class Diagram Packaging Material 86
5.2.15. Class Diagram Packaging Type 86
5.2.16. Class Diagram Price On Trade Item 87
5.2.17. Class Diagram Private Information 87
5.2.18. Class Diagram Season 87
5.2.19. Class Diagram Security Tag Information 88

All contents copyright © GS1

5.2.20. Class Diagram ShipFromLocation 88
5.2.21. Class Diagram Target Consumer 88
5.2.22. Class Diagram Trade Item Color Description 88
5.2.23. Class Diagram Trade Item Coupon 88
5.2.24. Class Diagram Trade Item Date Information 89
5.2.25. Trade Item External Information 90
5.2.26. Class Diagram Trade Item Finish 90
5.2.27. Class Diagram Trade Item Handling Information 91
5.2.28. Trade Item Hazardous Information 92
5.2.29. Class Diagram Trade Item Hierarchy 92
5.2.30. Class Diagram Trade Item Import Identification 93
5.2.31. Class Diagram Trade Item Marking 93
5.2.32. Class Diagram Trade Item Material 93
5.2.33. Class Diagram Trade Item Measurements 94
5.2.34. Class Diagram Trade Item Order Information 95
5.2.35. Class Diagram Trade Item Pallet Information 96
5.2.36. Class Diagram Trade Item Price Date 96
5.2.37. Class Diagram Trade Item Size Description 97
5.2.38. Class Diagram Trade Item Sustainability Information 98
5.2.39. Class Diagram Trade Item Tax Information 99
5.2.40. Class Diagram Temperature Information 100
5.2.41. Class Diagram Trade Item Unit Indicator 101
5.2.42. Class Diagram Trade Item Warranty Information 101
5.3. Internal Code Lists 102

6. Business Document Example 114

7. Implementation Considerations 114
7.1. Attributes With External Code Lists 114
7.2. External Code Lists 117
7.3. Relationship to Global Data Synchronization Process 143

8. Testing 143
8.1. Pass / Fail Criteria 143
8.2. Test Data 143

9. Appendices 144
9.1. Appendix A: Attribute Variations 144
9.2. Appendix B: Attribute Associations 153
9.3. Appendix C: Trade Item Descriptor Usage 162

10. Summary of Changes 163

 All contents copyright © GS1

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 are 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	
EAN.UCC Business Message Standards Version 1.0, July 2001	

All contents copyright © GS1

Reference Name	Description
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	

All contents copyright © GS1

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

All contents copyright © GS1

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

All contents copyright © 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.

All contents copyright © GS1

4. Business Transaction View

4.1. Business Transaction Use Case Diagram

NA

4.2. Use Case Description

<table>
<tr><td>Use Case ID</td><td>UC-1</td></tr>
<tr><td>Use Case Name</td><td></td></tr>
<tr><td>Use Case Description</td><td>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 suppier, buyer or third party.</td></tr>
<tr><td>Actors (Goal)</td><td>The two general players in the Data Sync Trade Item business process are the "seller" and the "buyer". Depending on the specific nature of the relationship other players may have a role, such as a Third Party. The graphic flow below pictures the core sequence of messages, and is expanded to account for additional scenarios.
<table>
<tr><th>Actor's Name</th><th>Description</th><th>Buyer</th><th>Seller</th><th>3rd Party</th></tr>
<tr><td>Seller</td><td>Manufacturer or supplier of the item.</td><td></td><td>X</td><td>X</td></tr>
<tr><td>Buyer</td><td>Retailer or distributor of the item</td><td>X</td><td></td><td>X</td></tr>
<tr><td>Third Party</td><td>Other parties that somehow influence the item and may include creation, distribution, publication, and/or maintenance of the item.</td><td>X</td><td>X</td><td>X</td></tr>
</table></td></tr>
<tr><td>Performance Goals</td><td></td></tr>
<tr><td>Preconditions</td><td>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.

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.</td></tr>
<tr><td>Post conditions</td><td>The end-state of the Data Sync Trade Item business process occurs when the parties have achieved Party and Item data alignment.</td></tr>
<tr><td>Scenario</td><td>Begins when… trading partners discuss the need to exchange item information.

Continues with...</td></tr>
</table>

All contents copyright © GS1

	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><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></table> **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.
Alternative Scenario	<table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><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></table>
Related Requirements	
Related Rules	<table><tr><th>Attribute Name</th><th>Business Rules</th></tr><tr><td>additionalClassificationAgency Name</td><td>Required if additional classification schema field are populated.</td></tr><tr><td>additionalTradeItemDescription</td><td>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.</td></tr><tr><td>barCodeType</td><td>Multiple values allowed. Use enumerated BarCode Type List.</td></tr><tr><td>brandName</td><td>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.</td></tr><tr><td>brandOwner - represented by relation to Party Identification</td><td>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 BrandOwnerOfTradeItem is optional, the party identification for the brand owner is required when a brand owner is present.</td></tr><tr><td>clampPressure</td><td>The clamp pressure is the ONLY pressure value to be applied and there are no minimum or maximum values. If a clamp pressure less than the stated value is applied, the packaged product will slip the clamp and the product or its packaging may be damaged.</td></tr><tr><td>classificationCategoryCode</td><td>The system will assign Bricks on a first-approved, first-served basis. Mandatory within the Data Sync process.</td></tr><tr><td>casingTareWeight</td><td>The aggregate of the tare weight can be used for calculating the higher packaging levels. For example</td></tr></table>

 All contents copyright © GS1

		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	

All contents copyright © GS1

			being sizeDimension).	
		displayDimensionType	A displaydimensiontype is required of each dimension provided that is not the measurements provided under the Package Measurement Rules. Measurements provided under the Packaging Measurement Rules will be provided by the depth, height and width provide in Trade Item Measurements. IN_PACKAGE The Value IN_PACKAGE is the equivalent of the standard measurements as per the GDSN Package Measurement Rules. In order to be backwards compatible do not send values for displayDimensionTypeCode and displayDimensions for In Package measurements. In Package measurements will use the mandatory height, depth Width in Trade Item Measurements. This allows all existing measurements in the network to continue without any requirement for a new attribute being sent. If the product is supplied with many others in a case or other shipping carton, for example 12 bottles of shampoo in a case, then the measurements are taken once the product is removed from the case. To send the measurements of the whole case, use the GTIN for the case, not the GTIN for the individual product. If the product itself is in boxed form, for example a drill or a radio, then the measurements are taken with the product still in its box, as supplied. In most situations, the trade unit is in the state in which the customer would transport it. For an item which is sold at a Retail Point of Sale, this means the consumer. For an item which is not sold at a Retail Point of Sale, this typically means a Retailer. OUT_OF_PACKAGE This covers both “out of box” and “assembled”. The merchandiser, as the receiver of the data, may need these measurements in addition to “in package” if one instance of the product is taken out of box for display and other instances are left in box for purchase.	
		displayResolution	If the electrical usage trade item classification has a value equal to Television (by name or classification code equivivant) then the display resolution must be one of the following: 480_I 480_P 720_P 1080_P	

All contents copyright © GS1

		If the electrical usage trade item classification has a value equal to Computer (by name or classification code equivivant) then the display resolution must be one of the following: 1024_768 1280_1024 1440_900 1600_1200 1680_1050 1920_1200	
	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	
	electricalUsageSubclassificationCode	If the electrical usage trade item classification equals Television then the electricalUsage SubclassificationCode must include one of the following values: •CRT •LCD •Plasma •CRT Rear Projection •LCD/DLP Rear Projection If the electrical usage trade item classification equals Computer then the electricalUsage SubclassificationCode must include one of the following values: •Desktop •Laptop	
	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.	
	fileEffectiveEndDateTime	The fileEffectiveEndDateTime must be greater than the fileEffectiveStartDateTime when present.	

 All contents copyright © GS1

	fileEffectiveStartDateTime	If the file is an image, the fileEffectiveStartDateTime must be present if the uniformResourceIdentifier is entered.	
	fileFormatName	If the file is an image, 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	If the file is an image 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	Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code. Additional examples include: Yogurt Hammer Paint Nail Towel DVD Computer Flour Sheets Shirt Pants Jeans Facial tissues	
	GDSNTradeItemClassificationAttributeValue	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.	

All contents copyright © GS1

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.
isTradeItemAConsumerUnit	There can be more than one consumer unit in one hierarchy.
isTradeItemADespatchUnit	There can be more than one despatch unit in one hierarchy.
isTradeItemAnInvoiceUnit	There can be more than one invoicing unit in one hierarchy.
isTradeItemAnOrderableUnit	There can be more than one ordering unit in one hierarchy.
isTradeItemAVariableUnit	Boolean Yes=variable, No=fixed.

All contents copyright © GS1

	isTradeItemIrradiated	Note: This requirement is handled through the FMCG Extension. Should only be submitted if a claim is made on the trade item.	
	isTradeItemMarkedAsRecyclable	This is a yes/no (Boolean) where yes equals trade item marked with ISO markings.	
	istradeItemPackedIrregularly	If istradeItemPackedIrregularly = TRUE, then quantityOfCompleteLayersContainedInATradeItem, tradeItemCompositionWidth and tradeItemCompositionDepth should not be sent.	
	isTradeItemROHSCompliant	If an electronic or electrical product is identified by RoHS guidelines then this attribute must be populated. If value = false then the attribute rOHSComplianceFailureMaterial is required.	
	isTradeItemUniversalWaste	This attribute applies in the US target market to products regulated under the Environmental Protection Agency's CFR 40 273.2 through 273.5; This can include Lamps (Bulbs that could be Fluorescent, High Intensity Discharge, neon) Batteries (re-chargeable) Thermostats, (Containing Mercury) and Pesticides.	
	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 ManufacturerOfTradeItem 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/yd2)GM - Grams per square meter (g/m²).	
	minimumTradeItemLifespanFromTimeOfArrival	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.	

All contents copyright © GS1

<table>
<tr><td></td><td>netContent</td><td>netContent is primarily for shelf labelling and price comparison and is not primarily a description field.

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.

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.

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.

In case of variable measure trade items, indicate the average quantity."

Attribute priceComparisonMeasurement is also used to provide a price comparison when the comparison is other than netContent.</td><td></td></tr>
<tr><td></td><td>netWeight</td><td>Weight excludes all packaging material, including the packaging material for all lower-level GTINs.

Example
<table><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><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></table></td><td></td></tr>
<tr><td></td><td>totalQuantityOfNextLowerLevel TradeItem</td><td>If the quantityOfCompleteLayersContainedInATradeItem (number in height), tradeItemCompositionWidth (number in width) and tradeItemCompositionDepth (number in depth) are supplied, the product of the these three attributes should equal the totalQuantityOfNextLowerLevelTradeItem.</td><td></td></tr>
<tr><td></td><td>offerOnPack</td><td>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.</td><td></td></tr>
<tr><td></td><td>openedTradeItemLifeSpan</td><td>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.</td><td></td></tr>
<tr><td></td><td>orderingLeadTime</td><td>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.</td><td></td></tr>
</table>

 All contents copyright © GS1

		orderingUnitOfMeasure	GS1 standards reference the UN/CEFACT Recommendation 20 list for the possible Unit of Measure. orderingUnitOfMeasure is a string and is optional.	
		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 that 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.	

All contents copyright © GS1

	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.	
	quantityOfNextLevelTradeItemWithinInnerPack	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	
	quantityOfTradeItemsContainedInACompleteLayer	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.	
	quantityOfTradeItemsPerPalletLayer	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.	
	rOHSComplianceFailureMaterial	If isTradeItemRoHSCompliant = false then this attribute is required	
	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.	

All contents copyright © GS1

		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	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.	
		storageHandlingTemperatureMaximum	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.	
		storageHandlingTemperatureMinimum	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.	
		suggestedRetailPrice	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.	
		targetMarketCountryCode	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.	

All contents copyright © GS1

	targetMarketSubdivisionCode	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.	
	taxAmount	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.	
	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.	
	tradeItemCompositionDepth	The default unit of measure to express a quantity for this attribute is “UN” for unit for example 6 UN.	
	tradeItemCompositionWidth	The default unit of measure to express a quantity for this attribute is “UN” for unit for example 6 UN.	
	tradeItemCountryOfOrigin	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. 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.	
	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.	
	TradeItemPriceBasisQuantity	If the tradeItemPriceBasisQuantity applies to an "each" then the price basis quantity is "per 1 PCE". The tradeItemPriceBasisQuantity is mandatory if the catalogue price is provided.	

 All contents copyright © GS1

		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.	• 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 Source. • 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.	

All contents copyright © GS1

4.3. Business Transaction Activity Diagram(s)

Not Available

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

Not Available

All contents copyright © GS1

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}

All contents copyright © GS1

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}

All contents copyright © GS1

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}

All contents copyright © GS1

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}
	totalQuantityOfNextLowerLevelTradeItem			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}

All contents copyright © GS1

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	f 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}

All contents copyright © GS1

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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeItemDescription	Trade Item Description. Association.Trade Item Description	An understandable and useable description of a trade item using brand and other descriptors. This attribute is filled with as little abbreviation as possible while keeping to a reasonable length. Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code. Field length is 178 characters. This should be a meaningful description of the trade item with full spelling to facilitate message processing. Retailers can use this description as the base to fully understand the brand, flavor, scent etc. of the specific GTIN in order to accurately create a product description as needed for their internal systems. Examples: GS1 Brand Base Invisible Solid Deodorant AP Stick Spring Breeze GS1 Brand Laundry Detergent Liquid Compact Regular Instant Stain 1 GS1 Brand Hair Colour Liquid Light to Medium Blonde	0..*	{ref1}
		None	TradeItemExternalInformation	Trade Item Description. Association.Trade Item Description	Information on a external files related to the trade item.	0..*	{ref1}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	AdditionalTradeItemDescription	Trade Item Description. Association. Additional_Trade Item Description	Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Colour, and Fragrance. The schema uses common library component as shown in the GDD Max Size field. For the business requirements for item, please use the specific definition of this data type and field, 1-350, as defined in the Trade Item BRD.	0..*	{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. Trade Item	None	1..1	{ref1}
TradeItemIdentification				Trade Item Identification. Details	None		{ref1}
	globalTradeItemNumber			Trade Item Identification. Primary_ Identification. GTIN_ Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1	{ref1}
		None	AdditionalTradeItemIdentification	Trade Item Identification. Additional. Non GTIN_ Trade Item Identification	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}

All contents copyright © GS1

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}
	tradeItemTradeChannel			Trade Item Information Group. Trade Item Trade Channel. Trade Channel_Code	A grouping of entities by common business model concentration used to define the distribution or marketing segmentation of products, customers and geographic areas into common groups that are supplied, serviced and measured in similar ways.	0..*	{ref5}
		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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradingPartnerNeutralTradeItemInformation	Trade Item Information Group. Association. Trading Partner Neutral_ Trade Item	None	1..1	{ref1}

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}
ElecticalUsage				Electrical Usage. Details	Information on the amount of electicity used for a trade item.		
	maximumEnergyUsage			Electrical Usage. Maximum Energy Usage. Measurement	The maximum amount of energy used by a device powered by electricity.	1..1	{ref5}
	maximumEnergyUsageTimePeriod			Electrical Usage. Maximum Energy Usage Time Period. Time_Measurement	The time period (e.g. hours, days, years) associated with the maximum energy usage amount.	1..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	runMode			Electrical Usage. Run Mode. Electrical Trade Item Run Mode_Code	The functional mode of an electrical device for example On, Sleep, Standby). Run modes are defined by various guidelines for example the energy star guideline.	1..1	{ref5}
ElectricalUsageTradeItemClassification				Electrical Usage Trade Item Classification. Details	A trade item classification used to drive requirements for information for trade items which use electricity.		{ref5}
	electricalUsageTradeItemClassificationAgency			Electrical Usage Trade Item Classification. Electrical Usage Trade Item Classification Agency.Text	A classification agency or organisation whose product classification scheme is being provided to drive required information for electrical usage.	0..1	{ref5}
	electricalUsageTradeItemClassificationCode			Electrical Usage Trade Item Classification. Electrical Usage Trade Item Classification Code.Text	A classification code value from a product classification scheme provided to drive required information for electrical usage.	0..1	{ref5}
	electricalUsageTradeItemClassificationName			Electrical Usage Trade Item Classification. Electrical Usage Trade Item Classification Name.Text	A classification name from a product classification scheme provided to drive required information for electrical usage.	0..1	{ref5}
		None	ElectricalUsageTradeItemSubclassification	Electrical Usage Trade Item Classification. Association. Electrical Usage Trade Item Subclassification	An electrical usage trade item sub-classification provided for an electrical usage trade item classification.	0..1	{ref5}
ElectricalUsageTradeItemSubclassification				Electrical Usage Trade Item Subclassification.Details	Provides a further refinement of Electrical Usage Trade Item Classification used to drive requirements for information for trade items which use electricity.		{ref5}
	electricalUsageSubclassificationCode			Electrical Usage Trade Item Subclassification. Electrical Usage Subclassification Code.Text	A sub-classification code value from a product classification scheme provided to drive required information for electrical usage.	0..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	electricalUsageSubclassificationName			Electrical Usage Trade Item Subclassification. Electrical Usage Subclassification Name.Text	A sub-classification name provided to drive required information for electrical usage.	0..1	{ref5}
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.	0..*	{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.	0..*	{ref1}
	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.	0..*	{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.	0..*	{ref1}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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.	0..*	{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.	0..*	{ref1}
		None	DangerousGoodsTechnicalName	Hazardous Item Description Group. Association. Dangerous Goods Technical Name	Provides the dangerous goods technical name.	0..*	{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}
ManufacturerTakeBackProgram				Manufacturer Take Back Program. Details	Details on any take back program offered to consumers for the product to be reused, remanufactured or recycled by the manufacturer.		{ref5}
	doesManufacturerHaveTakeBackProgram			Manufacturer Take Back Program. Manufacturer Take Back Program. NonBinaryLogic_Code	Indicates if the manufacturer of the trade item offers any take back programs to consumers for the product to be reused, remanufactured or recycled by the manufacturer.	0..1	{ref5}
		manufacturerTakeBackProgramFee	MultiAmount	Manufacturer Take Back Program. Manufacturer Take Back Program Fee. MultiAmount	The fee the consumer must pay the manufacturer to take back the product.	0..1	{ref5}
MarketingInformation				Trade Item_ Marketing. Details	Not Available		{ref2}

All contents copyright © GS1

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 con-junction 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}

All contents copyright © GS1

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 define 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.	0..1	{ref2}
NonPackageTradeItemDimension				Apparel_ Home Fashions_ Product Size. Details	None		{ref2}
	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	NonPackagedSizeDimension	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}
	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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 are on the package.	0..*	{ref1}
	packageMarksHygienic			Trade Item_ Packaging Marking. Hygienic_ Marked As. Text	An indication of which hygiene markings are present in the product package. Hygiene markings are defined as those related to packaging conditions or practices intended to the preservation or promotion of health.	0..*	{ref5}
	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}

All contents copyright © GS1

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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		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}
		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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		pegVertical	MultiMeasurement Value	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}
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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
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	A logical grouping of information detailing the tax code and managing agency.		{ref1}
	taxApplicabilityCode			Tax Agency. Tax Applicability Code. Text	Depicts the applicability of the tax rate or amount for a trade item for example zero, low or exempt.	0..1	{ref5}
	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
		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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	canceledDate			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}
	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}
	endAvailabilityDateTime			Trade Item Date Group. End Availability_ Date. CCYYMMDD hhmm_ Date Time	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.	0..1	{ref1}
	lastChangeDateTime			Trade Item Date Group. Last Change_ Date. CCYYMMDD hhmm_ Date Time	!! A system generated value identifying the date and time a record was last updated. This field allows the data pool to control the trade item data version, and allows the information user to determine if trade item data should be downloaded. Date format CCYY-MM-DDTHH:MM:SS.	1..1	{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}
	startAvailabilityDateTime			Trade Item Date Group. Start Availability_ Date. CCYYMMDD hhmm_ Date Time	The date (CCYY-MM-DDTHH:MM:SS) from which the trade item becomes available from the supplier, including seasonal or temporary trade item and services.	1..1	{ref1}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
	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}
TradeItemDisplayDimensions				Trade Item Display Dimensions. Details	Provides display dimensions (height, width, depth) and orientation details for a trade item under various display scenarios.		{ref5}
	displayDimensionTypeCode			Trade Item Display Dimensions. Display Dimension Type. Text	Depicts certain display scenarios (e.g. Retail Display, Out of package) used for measurement.	1..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		displayDimensions	Dimension	Trade Item Display Dimensions. Display Dimensions. Dimension	The dimensions of a trade item under certain display scenarios (Display Dimension Types) when they differ from the standard measurements provided under the Package Measurement Rules.	1..1	{ref5}
TradeItemElectricalUsageInformation				Trade Item Electrical Usage. Details	Details on the usage of electricity for a trade item during various modes of usage.		{ref5}
	automaticPowerDownDefaultTimePeriod			Trade Item Electrical Usage. Automatic Power Down Default Time Period. Measurement	The default time value that the product will automatically power down for trade item.	0..1	{ref5}
	electricalUsageAgencyCode			Trade Item Electrical Usage. Electrical Usage Agency Code. Text	The agency that regulates electrical usage for products within a target market. For example Environmental Protection Agency (EPA) in the United States.	0..*	{ref5}
	isTradeItemAutomaticPowerDownEnabled			Trade Item Electrical Usage. Trade Item Automatic Power Down Enabled. NonbinaryLogic_Code	An indicator whether a product is enabled with auto power down feature when shipped to the customer. Auto power down is a feature that operates similarly to power management features and requires the unit to enter a standby passive mode after a certain pre-set number of hours of user inactivity.	0..1	{ref5}
		None	ElectricalUsage	Trade Item Electrical Usage. Association. Electrical Usage	Electrical usage details for a trade item.	0..*	{ref5}
		None	ElectricalUsageTradeItemClassification	Trade Item Electrical Usage. Association. Electrical Usage Trade Item Classification	A trade item classification used to drive requirements for information for trade items which use electricity.	0..1	
		None	TradeItemScreenInformation	Trade Item Electrical Usage. Association. Trade Item Screen	Television or monitor screen details for a trade item.	0..1	{ref5}
TradeItemEnvironmentalProperties				Trade Item Environmental Properties. Details	Properties of the trade item that can effect the ecological or human environment		{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	doesTradeItemContainShortChainChlorinatedParaffins			Trade Item Environmental Properties .Trade Item Contain Short Chain Chlorinated Paraffins. Nonbinary Logic_Code	Indicate if the trade item and/or its components contain paints, coatings, plastics or other materials containing short chain chlorinated paraffins (SCCPs).	0..1	{ref5}
	doesTradeItemContainPesticide			Trade Item Environmental Properties .Trade Item Contain Pesticide. Nonbinary Logic_Code	Indicates if the trade item is advertised or labelled as a chemical or contains a chemical that is advertised or labelled to kill, repel or prevent the growth of any living organism.	0..1	{ref5}
	doesTradeItemContainPropellant			Trade Item Environmental Properties .Trade Item Contain Propellant. Nonbinary Logic_Code	Indicates if a trade item contains a compressed gas or propellant.	0..1	{ref5}
	doesTradeItemContainPolyvinylChloride			Trade Item Environmental Properties. Trade Item Contain Polyvinyl Chloride. Nonbinary Logic_Code	Indicate if product contains Polyvinyl Chloride (PVC), a widely used thermoplastic polymer.	0..1	{ref5}
	isTradeItemChemicalNotIntendedForHumanConsumption			Trade Item Environmental Properties . Trade Item Chemical Not Intended For Human Consumption. Nonbinary Logic_Code	Indicates that the trade item is or contains a Liquid, Gel, Paste, Powder, or Flammable solid not intended for human consumption (ingested).	0..1	{ref5}
	renewablePlantBasedPlasticComponentsPercent			Trade Item Environmental Properties .Renewable Plant Based Plastic Components. Percentage_Integer	The percentage of the plastic components only made from rapidly renewable plant-based material by net weight of product (excludes packaging).	0..1	

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	rOHSComplianceFailureMaterial			Trade Item Environmental Properties .ROHS Compliance Failure Material. Text	The material used in the trade item that does not comply with the ROHS Directives. ROHS is the "restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.	0..*	
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	Details how the trade item should be handled during shipment, storage and use.		{ref1}
	clampPressure			Trade Item Handling. Clamp Pressure. Measurement	The pressure that should be applied by a clamp to the packaging around the product.	0..1	{ref5}

All contents copyright © GS1

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}

All contents copyright © GS1

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.	0..1	{ref1}
		None	HazardousInformationDetail	Hazardous Goods. Association. Hazardous Item Description Group	This information on HazardousInformationDetail for TradeItemHazardousInformation.	0..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}
	isTradeItemPackedIrregularly			Trade Item Containment. Packed Irregularly. Nonbinary Logic_Code	Indicates that the item is packed in a non-rectilinear pattern such that it is not meaningful to send the number of child trade items in the width/depth/height.	0..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	quantityOfCompleteLayersContainedInATradeItem			Trade Item Containment. Complete Layers_ Quantity. Quantity	The number of layers of the base trade item found in a trade item. Does not apply to the base trade item unit.	0..1	{ref1}
	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}

All contents copyright © GS1

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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
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}
	hasDisplayReadyPackaging			Physical_ Trade Item Dimensions. Display Ready Packaging. Nonbinary Logic_Code	Indicates that the Trade Item has Display Ready Packaging (also referred to as Shelf Ready Packaging or Retail Ready Packaging). Display Ready Packaging can be exhibited on the floor, a shelf or other location. It may or may not require some modification e.g. to raise a flap. If modifications are necessary, the measurements would be advised for the trade item as prepared for display.	0..1	{ref5}
	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
		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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		height	MultiMeasurementValue	Physical_ Trade Item Dimensions. Height. Multi-unit Measure	The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade itemHeight will include the height of the pallet itself. Business Rules: Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1	{ref1}
		nestingIncrement	MultiMeasurementValue	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}
		netContent	MultiMeasurementValue	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	MultiMeasurementValue	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		priceComparisonMeasurement	MultiMeasurementValue	Physical_ Trade Item Dimensions. Price_ Comparison Measurement. Multi-unit Measure	The quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent. This field is dependent on the population of priceComparisonContentType and is required when priceComparisonContentType is used.	0..1	{ref1}
		tradeItemCompositionDepth	MultiMeasurementValue	Physical_ Trade Item Dimensions. Trade Item Composition_ Depth. Multi-unit Measure	The number of child-items that are packaged from front to back in a trade unit. This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf.	0..1	{ref5}
		tradeItemCompositionWidth	MultiMeasurementValue	Physical_ Trade Item Dimensions. Trade Item Composition_ Width. Multi-unit Measure	The number of child-items that are packaged beside each other in a trade unit (on the side facing the consumer). This information is used in the space process, especially when allocating whole Trade Units (intermediate) into the shelf. The Space Manager always allocates Base 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}
		width	MultiMeasurementValue	Physical_ Trade Item Dimensions. Width. Multi-unit Measure	The measurement from left to right of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	1..1	{ref1}
		None	PegMeasurements	Physical_ Trade Item Dimensions. Association. Peg Location	This information on PegMeasurements for TradeItemMeasurements.	0..*	{ref1}
		None	TradeItemDisplayDimensions	Physical_ Trade Item Dimensions. Association. Trade Item Display Dimensions	Display dimensions for a trade item.	0..*	{ref5}
		None	TradeItemNesting	Physical_ Trade Item Dimensions. Association. Trade Item Nesting	Information on nesting for trade item.	0..1	{ref5}
		None	TradeItemOrientation	Physical_ Trade Item Dimensions. Association. Trade Item Orientation	Information on orientation preferences for the trade item.	0..*	

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
TradeItemNesting				Trade Item Nesting. Details	Details on how trade items nest with each other for the purpose of measurements.		{ref5}
		nestingDirection		Trade Item Nesting. Nesting Direction. Nesting Direction_Code	Depicts the arrangement of two items that nest together specifically whether they nest against each other or on top of each other.	0..1	{ref5}
		nestingType		Trade Item Nesting. Nesting Type. Nesting Type_Code	Depicts whether a nested item fits inside or over the other item in a nesting relationship.	0..1	{ref5}
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}

All contents copyright © GS1

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	MultiMeasurementValue	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	MultiMeasurementValue	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	MultiMeasurementValue	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}
TradeItemOrientation				Trade Item Orientation. Details	Depicts one or many suggested orientatons for the trade item for the purpose of display.		{ref5}
	orientationPreferencesSequence			Trade Item Orientation. Orientation Preferences Sequence. Non Negative Integer	Depicts the preferred sequence of orientation used to communicate the manufacturers relative preferences of orientation.	0..1	{ref5}
	orientationType			Trade Item Orientation. Orientation Type. Text	Depicts via code a display orientation for a trade item.	0..1	{ref5}
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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
TradeItemPriceDateInformation				Trade Item Price. Details	!! This class is part of the Trading Partner Neutral Trade Item Information Class.		{ref1}
	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}
	TradeItemPriceBasisQuantity			Trade Item Price_Trade Item Price Basis Quantity. Total_Quantity	The price basis quantity is the associated quantity of trade item for which a price is given.	0..1	{ref5}
		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}
TradeItemScreenInformation				Trade Item Screen. Details	Details on television or monitor screens for a trade item.		

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	displayResolution			Trade Item Screen. Display Resolution. Text	The display resolution of a television or computer display. This typically refers to the number of distinct pixels in each dimension that can be displayed for example 720x480, 1680x1050, etc.	0..1	{ref1}
		totalScreenArea		Trade Item Screen. Total Screen Area. Multi-unit Measure	The area of a television or monitor screen typically measured as viewable screen height by viewable screen width.	0..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}
	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}
TradeItemSustainabilityInformation				Trade Item Sustainability. Details	Details related to the environmental impact of a trade item.		
	areHazardousComponentsRemovable			Trade Item Sustainability. Hazardous Components Removable. NonBinary Logic_Code	An indicator if any hazardous components contained within the trade item can easily be separated from the other materials to facilitate product recycling.	0..1	{ref5}
	componentsLabeledForDisassemblyRecyclingPercent			Trade Item Sustainability. Components Labeled For Disassembly Recycling. Percent_Numeric	The percentage of trade item components that clearly label how to facilitate product disassembly and recycling. For example if the product is a VCR and remote control and the remote control is labelled for recycling, but the VCR is not the percentage equals 50.	0..1	{ref5}
	doesTradeItemHaveRefuseObligations			Trade Item Sustainability.Trade Item Refuse Obligations. NonBinary Logic_Code	Indicates if there are special disposal obligations that apply to the trade item for example INTRASTAT.	0..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	isTradeItemDesignedForEasyDisassembly			Trade Item Sustainability. Designed For Easy Disassembly. NonBinary Logic_Code	Indicates that the trade item is designed for easy disassembly by recycling facilities using standard industry tools.	0..1	{ref5}
	isTradeItemConsumerUpgradeableOrMaintainable			Trade Item Sustainability. Consumer Upgradeable Or Maintainable. NonBinary Logic_Code	Indicates if a product can be easily upgraded or have parts replaced by the consumer. For example, the ability to add additional memory/storage capacity or access and replace chargeable batteries.	0..1	{ref5}
	isTradeItemRigidPlasticPackagingContainer			Trade Item Sustainability. Rigid Plastic Packaging Container. NonBinary Logic_Code	Indicates that a product is or is contained in a Rigid Plastic Packaging Container (RPPC) as defined by laws in the target market. A Rigid Plastic Packaging Container is a container that is made entirely of plastic, with a capacity between 8 fluid ounces and 5 gallons or the equivalent solid volume, maintains its shape while holding the product, and is capable of multiple re-closures.	0..1	{ref5}
	isTradeItemROHSCompliant			Trade Item Sustainability. ROHS Compliant. NonBinary Logic_Code	Indicates if the product is compliant with the European Union RoHS Directive (the restriction of the use of certain hazardous substances in electrical and electronic equipment), a government regulated agency that sets guidelines for product not to contain certain hazardous substances. The RoHS (restriction of the use of certain hazardous substances) bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.	0..1	{ref5}
	isTradeItemUniversalWaste			Trade Item Sustainability. Universal Waste. NonBinary Logic_Code	Indicates if a product can be considered universal waste. Universal waste is defined as “are wastes that do meet the regulatory definition of hazardous waste, but are managed under special, tailored regulations.	0..1	{ref5}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	EnvironmentalProperties	Trade Item Sustainability. Association. Environmental Properties	Environmental properties for a trade item.	0..1	{ref5}
		None	ManufacturerTakeBackProgram	Trade Item Sustainability. Association. Manufacturer Take Back Program	Information on a Manufacturer Take Back Program for a trade item.	0..1	{ref5}
		None	TradeItemElectricalUsageInformation	Trade Item Sustainability. Association. Trade Item Electrical Usage	Electrical usage information for a trade item for the purposes of sustainability.	0..1	{ref5}
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.	0..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.	0..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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		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}
		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}

All contents copyright © GS1

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_ 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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	priceByMeasureType			Trade Item Processing. Price By Measure. Price By Measure Type Code_ Code	Indicator to show how a product is sold.	0..1	{ref1}
	variableTradeItemType			Trade Item Processing. Variable Trade Item Type. Code	Indicator to show if a product is loose or pre-packed.	0..1	{ref1}
TradeItemWarrantyInformation				Trade Item Warranty. Details	An assurance that the trade item is reliable and that repairs or replacement will be done free of charge within a given time limit and under certain conditions in the event of a defect.		{ref5}
	warrantyEffectiveDateType			Trade Item Warranty. Warranty Effective Date Type. Text	The type of date associated with the warranty trade item usually expressed as an event date for the item for example date of purchase, date of manufacture or date of delivery.	0..1	{ref5}
	warrantyType			Trade Item Warranty. Warranty Type. Text	The type of warranty available for the trade item for example labour, distance, extended service.	0..1	{ref5}
		warrantyDescription	MultiDescription2500	Trade Item Warranty. Warranty Description. Multidescription 2500	The description of warranty available for the trade item.	0..1	{ref5}
		None	WarrantyConditions	Trade Item Warranty. Association. Warranty Conditions	Warranty Conditions for this Trade Item Warranty.	0..*	{ref5}
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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	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}
	tradeItemCountryOfLastProcessing			Trading Partner Neutral_ Trade Item. Last Processing_ Country. ISO3166_1_ Code	The ISO 3166-1 code that identifies the country in which the trade item was last processed and tested before importation.	0..1	{ref5}
	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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		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}
		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..*	{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}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TargetConsumer	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Target Consumer	This information on TargetConsumer for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemColorDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Colour	This information on TradeItemColorDescription for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	TradeItemCoupon	Trading Partner Neutral_ Trade Item. Association. Trade Item Coupon	This information on TradeItemCoupon for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemDateInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Date Group	This information on TradeItemDateInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemFinish	Trading Partner Neutral_ Trade Item. Association. Product Finish	This information on TradeItemFinish for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemHandlingInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Handling	This information on TradeItemHandlingInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemHazardousInformation	Trading Partner Neutral_ Trade Item. Association. Hazardous Goods	This information on TradeItemHazardousInformation for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	TradeItemHierarchy	Trading Partner Neutral_ Trade Item. Association. Trade Item Containment	This information on TradeItemHierarchy for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemImportIdentification	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Import Classification	This information on TradeItemImportIdentification for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	TradeItemMarking	Trading Partner Neutral_ Trade Item. Association. Trade Item Marking	This information on TradeItemMarking for TradingPartnerNeutralTradeItemInformation.	1..1	{ref1}
		None	TradeItemMaterial	Trading Partner Neutral_ Trade Item. Association. Additional_ Product_ Material Composition	This information on TradeItemMaterial for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}

All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeItemMeasurements	Trading Partner Neutral_ Trade Item. Association. Physical_ Trade Item Dimensions	This information on TradeItemMeasurements for TradingPartnerNeutralTradeItemInformation.	1..1	{ref1}
		None	TradeItemOrderInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Ordering	This information on TradeItemOrderInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemPalletInformation	Trading Partner Neutral_ Trade Item. Association. Pallet	This information on TradeItemPalletInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		cataloguePrice	TradeItemPriceDateInformation	Trading Partner Neutral_ Trade Item. Catalogue Price. Trade Item Price	This information on TradeItemPriceDateInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		suggestedRetailPrice	TradeItemPriceDateInformation	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	TradeItemSizeDescription	Trading Partner Neutral_ Trade Item. Association. Trade Item Size	This information on TradeItemSizeDescription for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	TradeItemSustainabilityInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Sustainability Information	Sustainability Information for a Trade Item.	0..1	{ref4}
		None	TradeItemTaxInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item_ Tax Information Group	This information on TradeItemTaxInformation for TradingPartnerNeutralTradeItemInformation.	0..*	{ref1}
		None	TradeItemTemperatureInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Temperature Group	This information on TradeItemTemperatureInformation for TradingPartnerNeutralTradeItemInformation.	0..1	{ref1}
		None	TradeItemUnitIndicator	Trading Partner Neutral_ Trade Item. Association. Trade Item Processing	This information on TradeItemUnitIndicator for TradingPartnerNeutralTradeItemInformation.	1..1	{ref1}

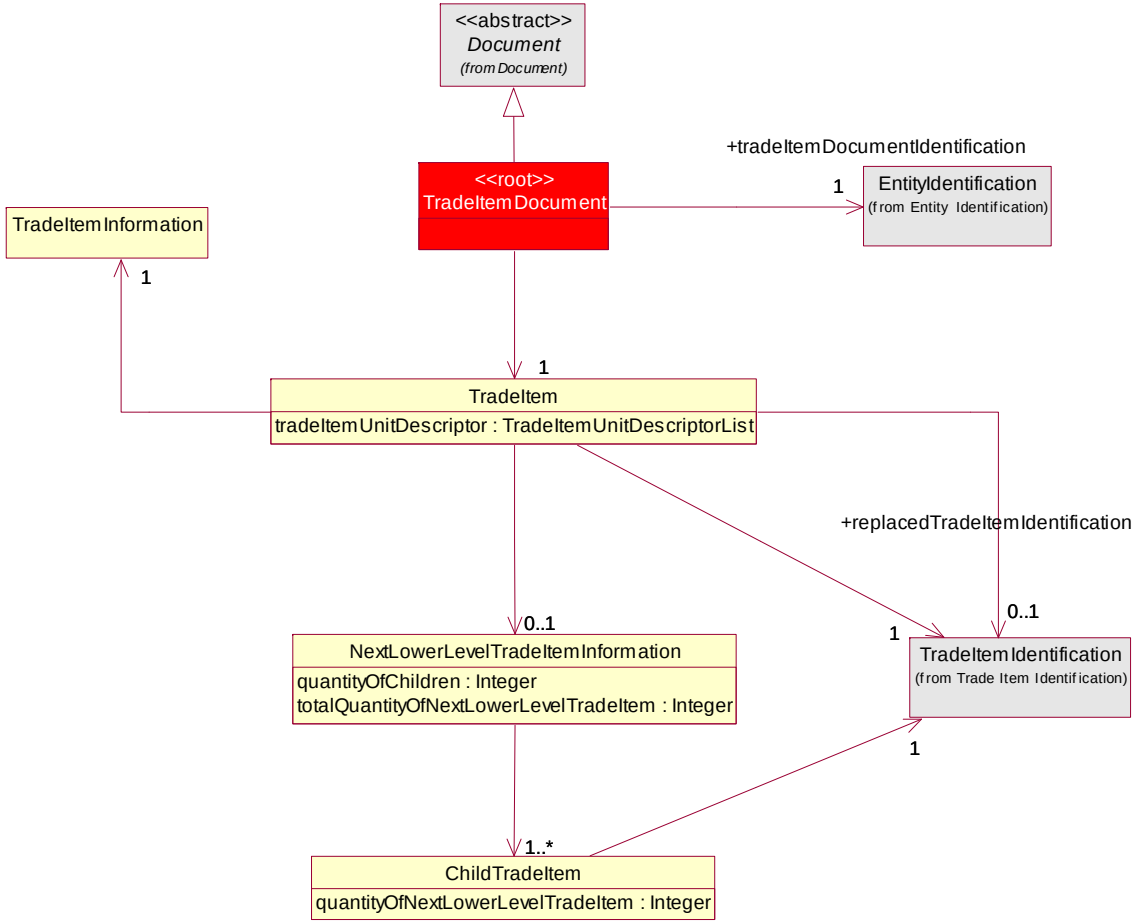
All contents copyright © GS1

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	TradeItemWarrantyInformation	Trading Partner Neutral_ Trade Item. Association. Trade Item Warranty Information	Warranty details for a Trade Item.	0..*	{ref4}
WarrantyConditions				Warranty Conditions. Details	Specific restrictions of the warranty for example the number of miles, number of months, number of uses, etc.		
	warrantyConstraint			Warranty Conditions. Warranty Constraint. Text	Determines the relationship between multiple warranty conditions for example “and”, “or” , “greatest”, “least”.	0..1	{ref5}
	warrantyDuration			Warranty Conditions. Warranty Duration. Measurement Value	The time period that the warranty is valid within.	1..1	{ref5}

All contents copyright © GS1

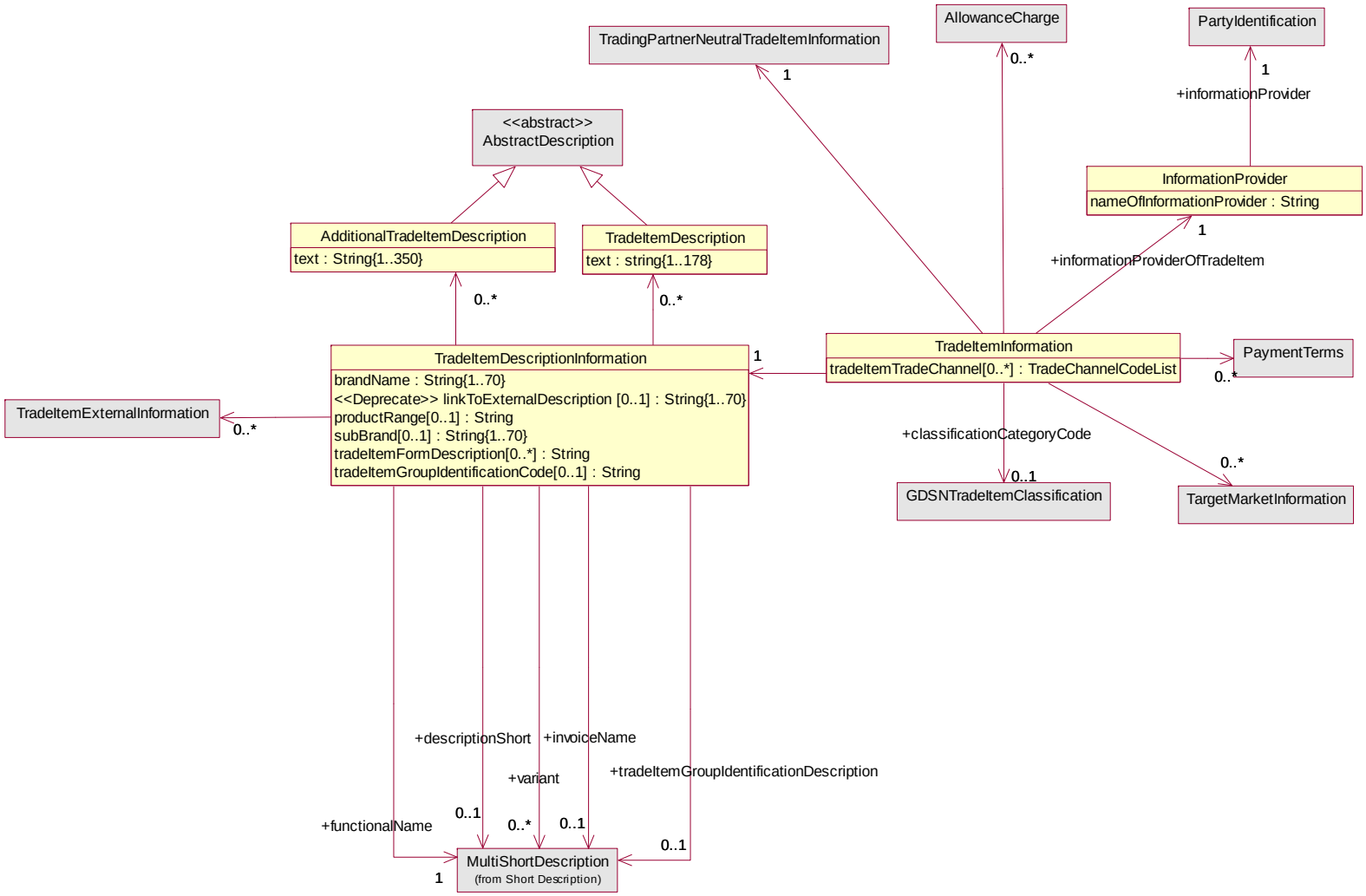
5.2. Class Diagrams

5.2.1. Class Diagram for Trade Item



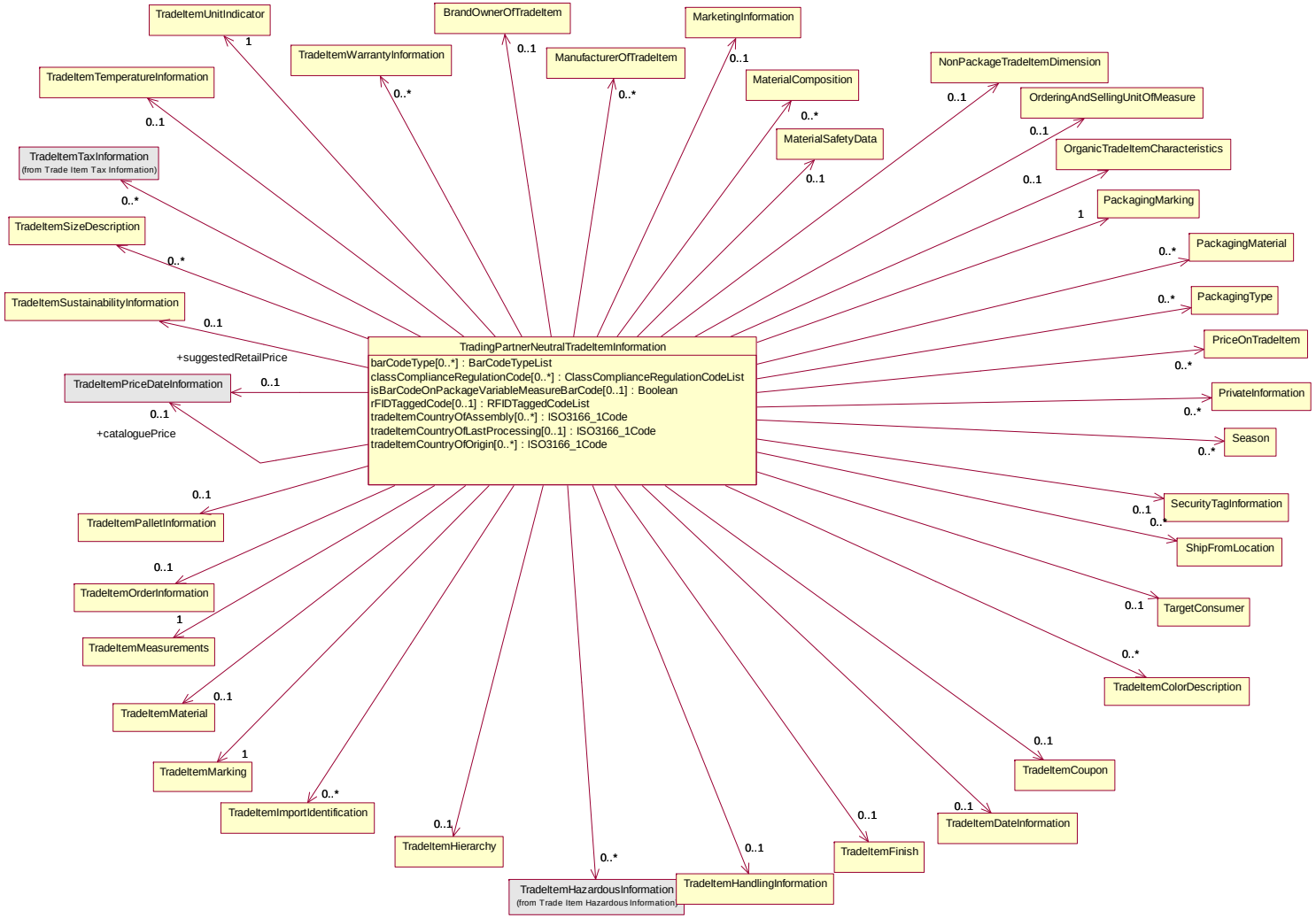
All contents copyright © GS1

5.2.2. Class Diagram for Trade Item Information



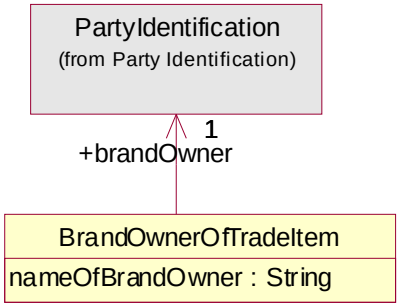
All contents copyright © GS1

5.2.3. Class Diagram Trading Partner Neutral Trade Item Information Relationship



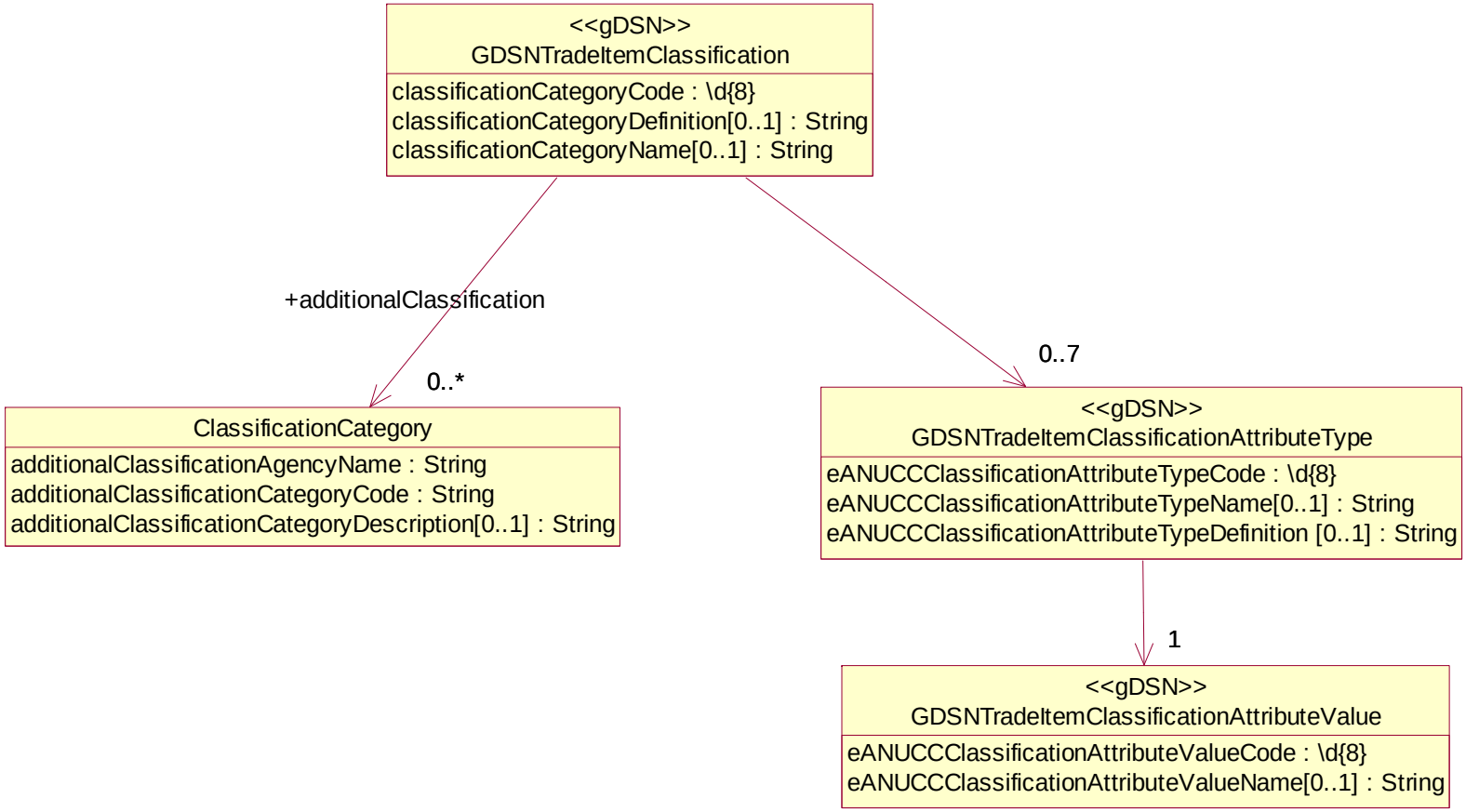
All contents copyright © GS1

5.2.4. Class Diagram Brand Owner Of Trade Item



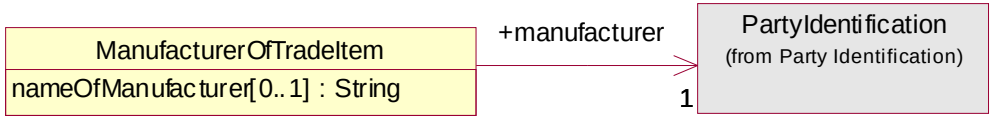
All contents copyright © GS1

5.2.5. Class Diagram GDSN Trade Item Classification

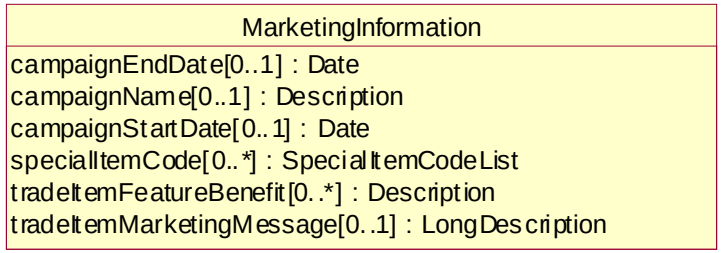


All contents copyright © GS1

5.2.6. Class Diagram Manufacturer Of Trade Item

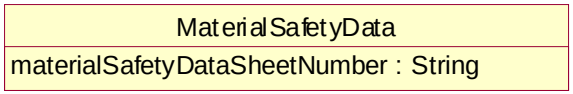


5.2.7. Class Diagram Marketing Information



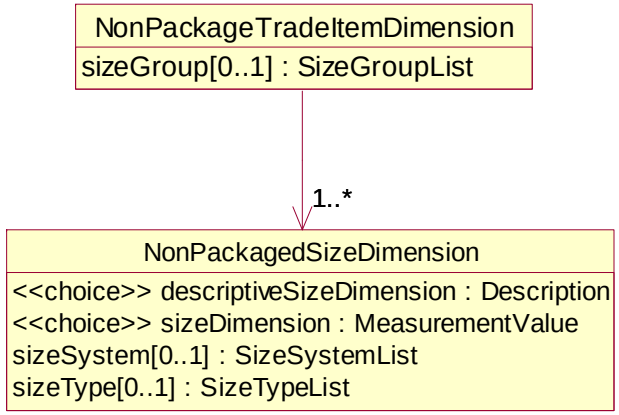
5.2.8. Class Diagram Material Composition

5.2.9. Class Diagram Material Safety Data

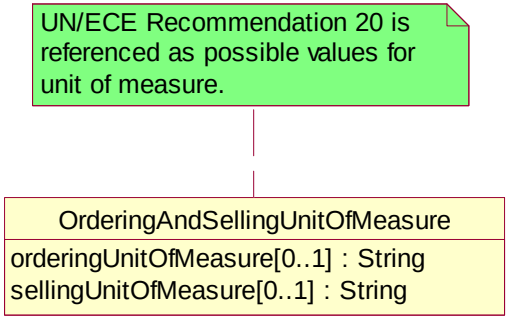


All contents copyright © GS1

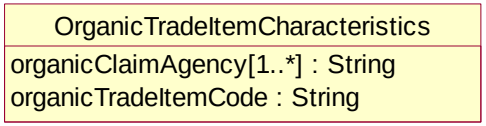
5.2.10. Class Diagram Non Package Trade Item Dimension



5.2.11. Class Diagram Ordering and Selling Unit Of Measure

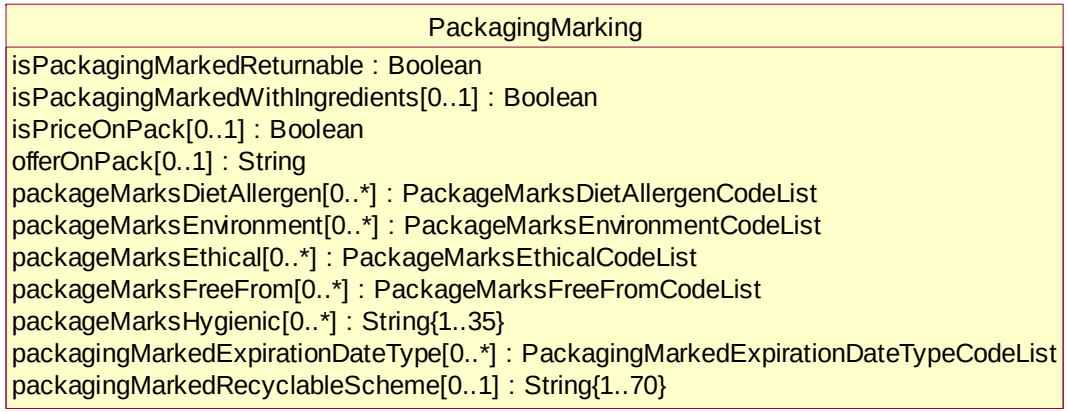


5.2.12. Class Diagram Organic Trade Item Characteristics



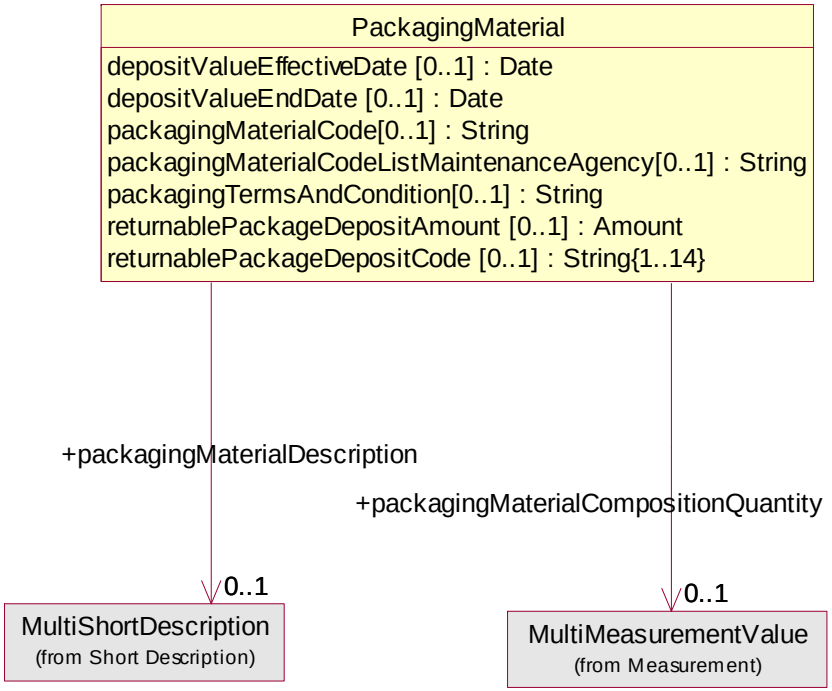
All contents copyright © GS1

5.2.13. Class Diagram Packaging Marking

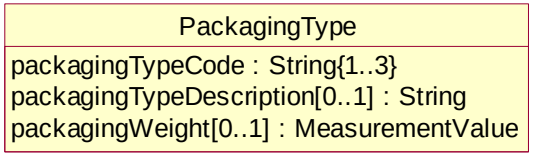


All contents copyright © GS1

5.2.14. Class Diagram Packaging Material

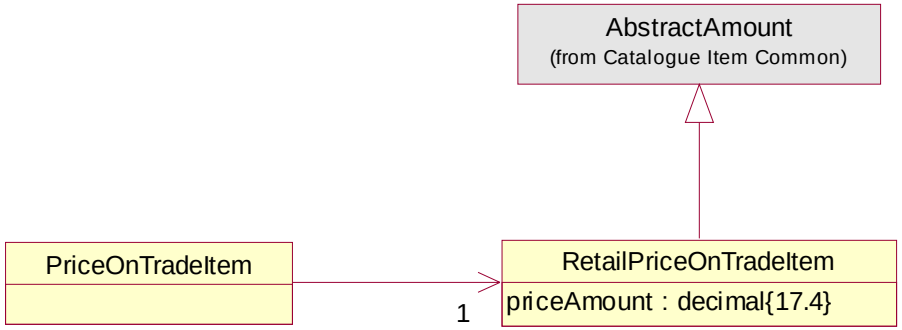


5.2.15. Class Diagram Packaging Type

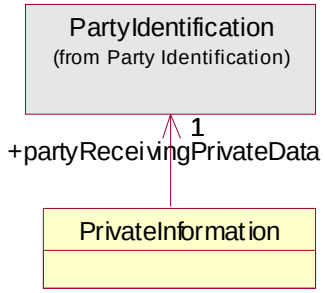


All contents copyright © GS1

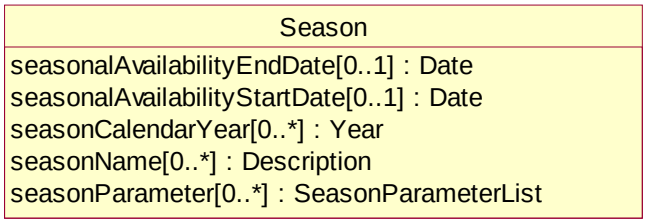
5.2.16. Class Diagram Price On Trade Item



5.2.17. Class Diagram Private Information

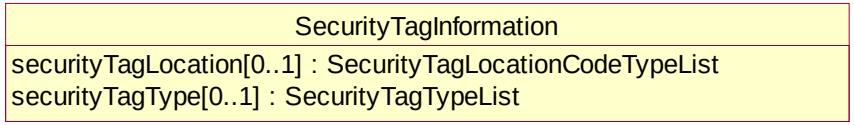


5.2.18. Class Diagram Season

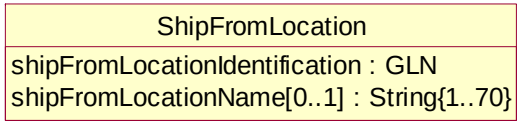


All contents copyright © GS1

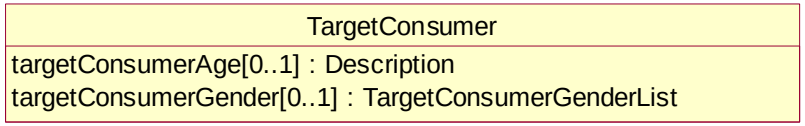
5.2.19. Class Diagram Security Tag Information



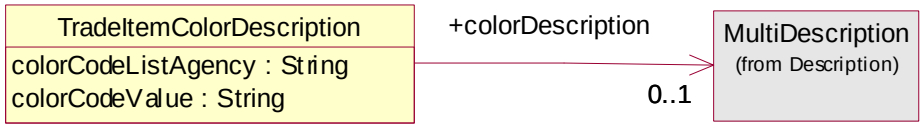
5.2.20. Class Diagram ShipFromLocation



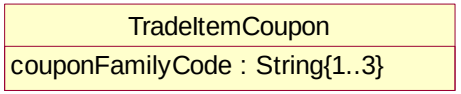
5.2.21. Class Diagram Target Consumer



5.2.22. Class Diagram Trade Item Color Description

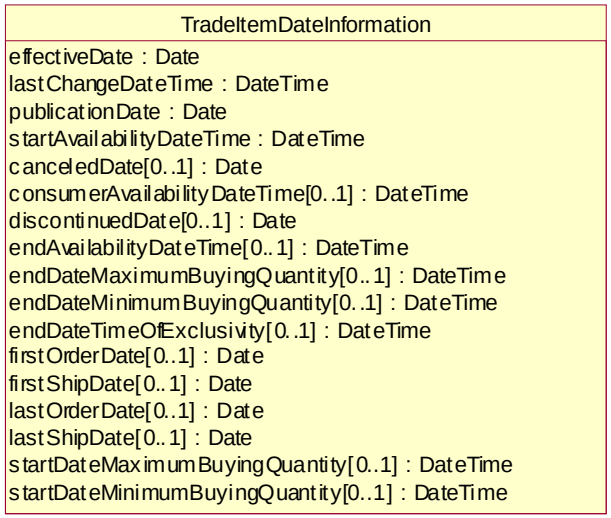


5.2.23. Class Diagram Trade Item Coupon



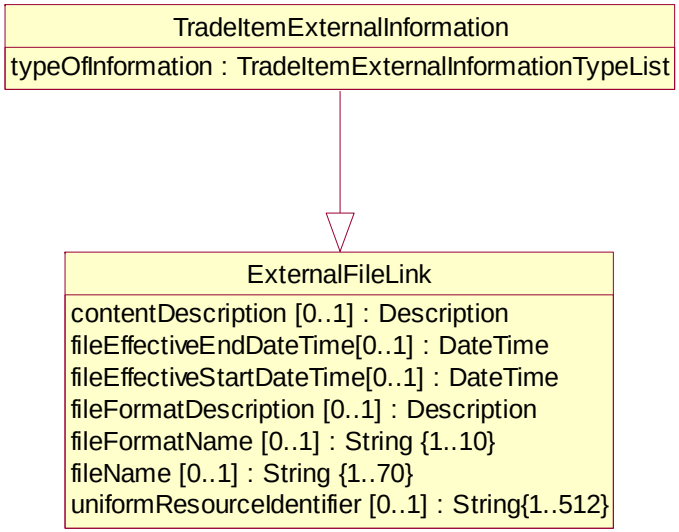
All contents copyright © GS1

5.2.24. Class Diagram Trade Item Date Information

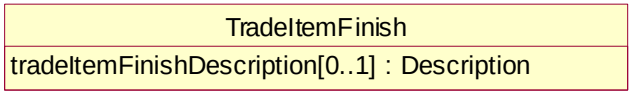


All contents copyright © GS1

5.2.25. Trade Item External Information

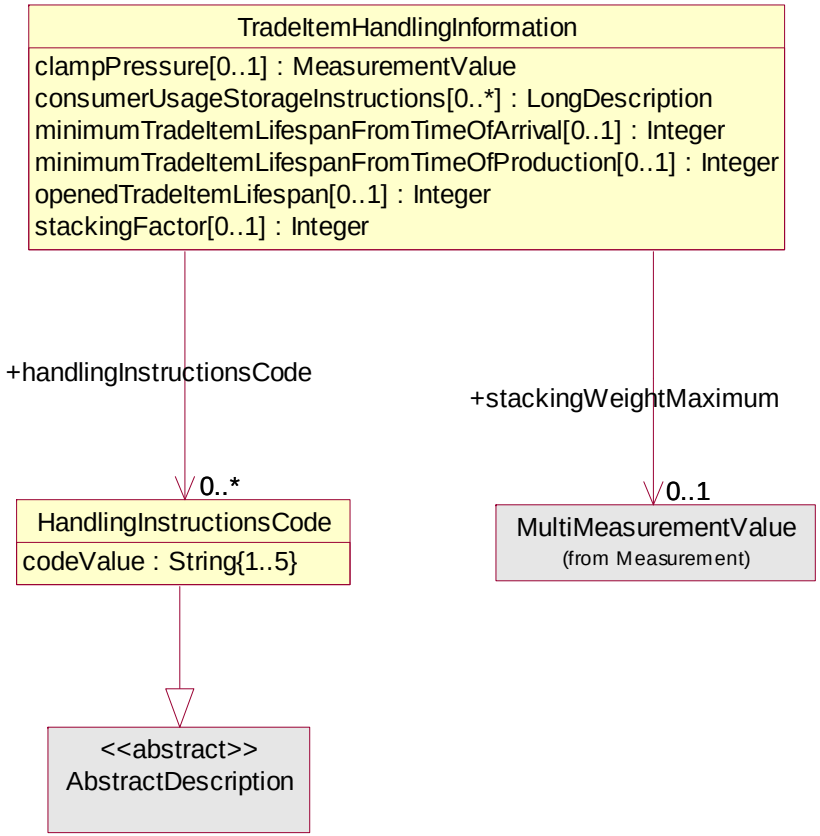


5.2.26. Class Diagram Trade Item Finish



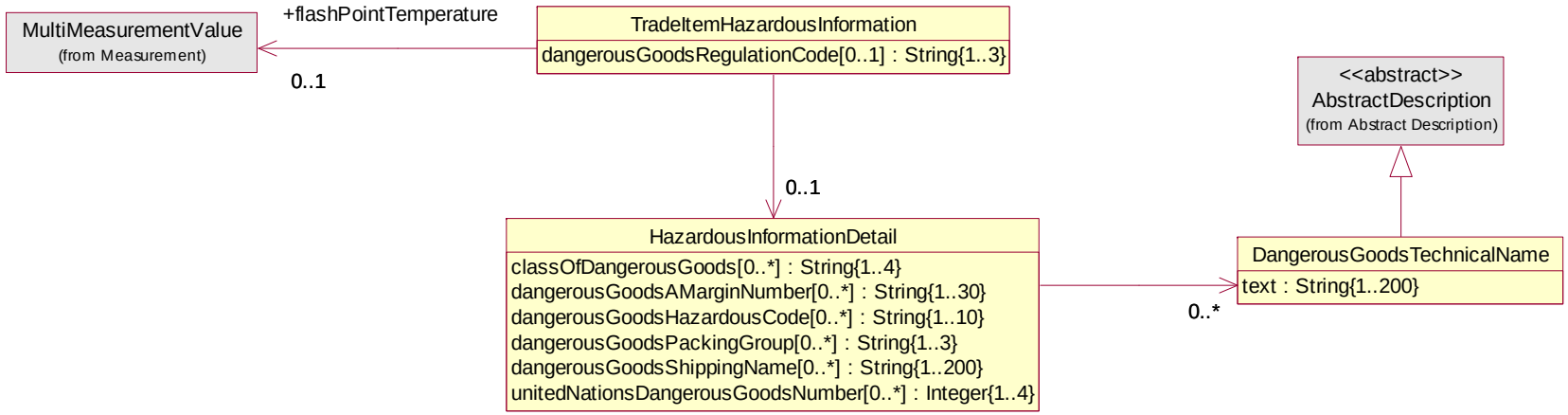
All contents copyright © GS1

5.2.27. Class Diagram Trade Item Handling Information

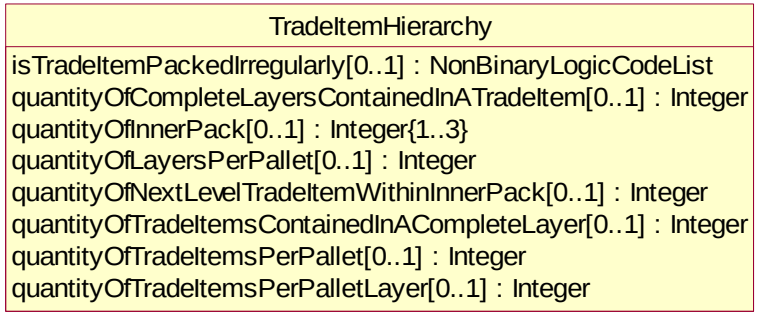


All contents copyright © GS1

5.2.28. Trade Item Hazardous Information

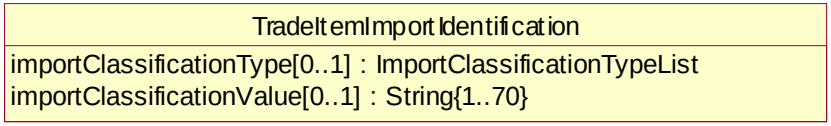


5.2.29. Class Diagram Trade Item Hierarchy

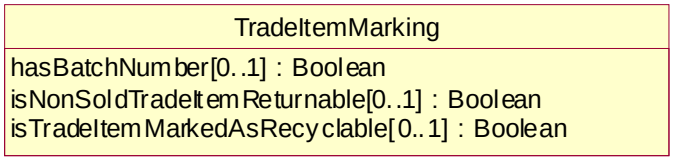


All contents copyright © GS1

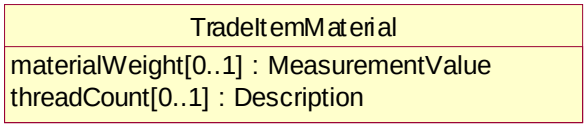
5.2.30. Class Diagram Trade Item Import Identification



5.2.31. Class Diagram Trade Item Marking

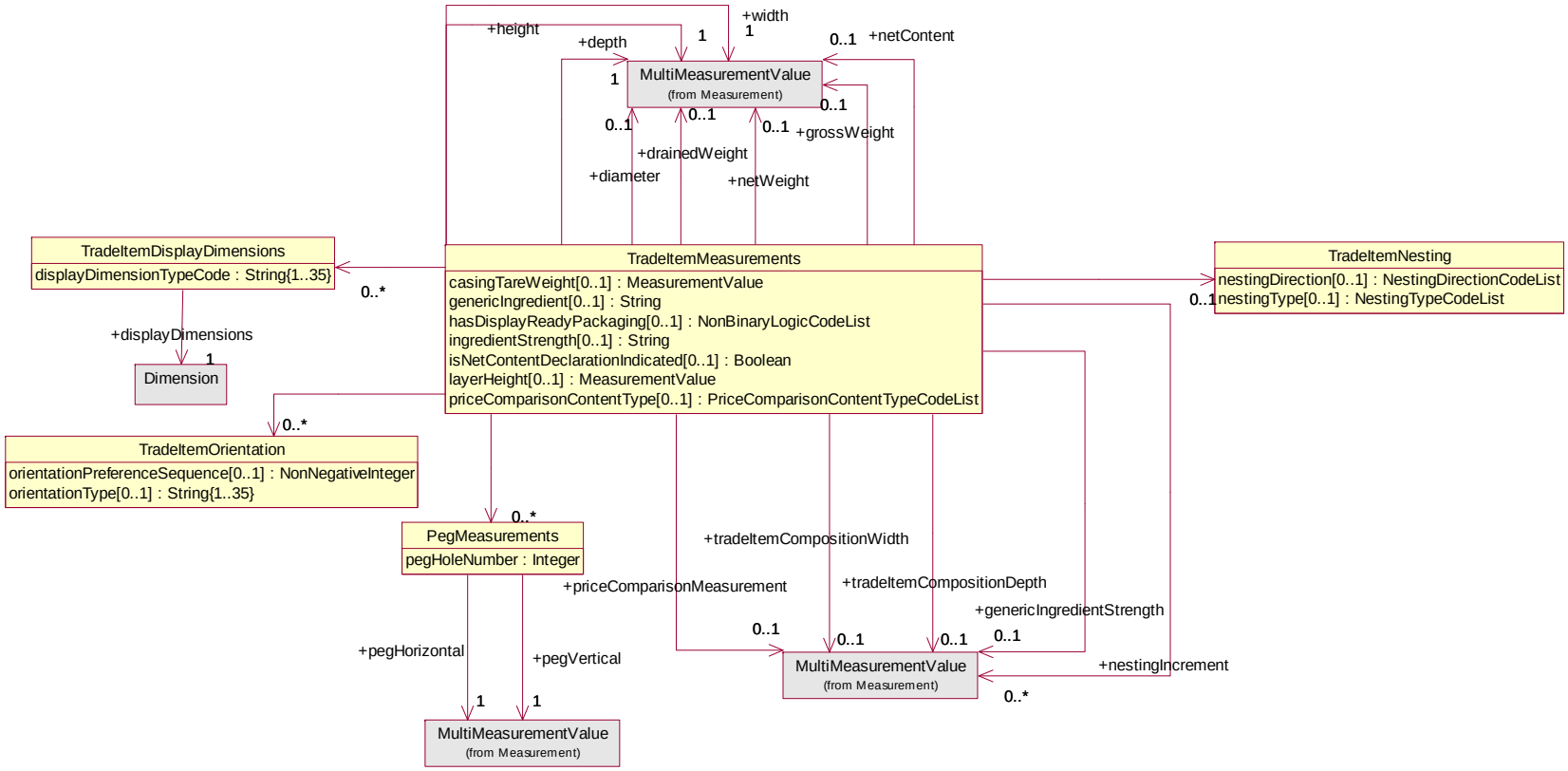


5.2.32. Class Diagram Trade Item Material



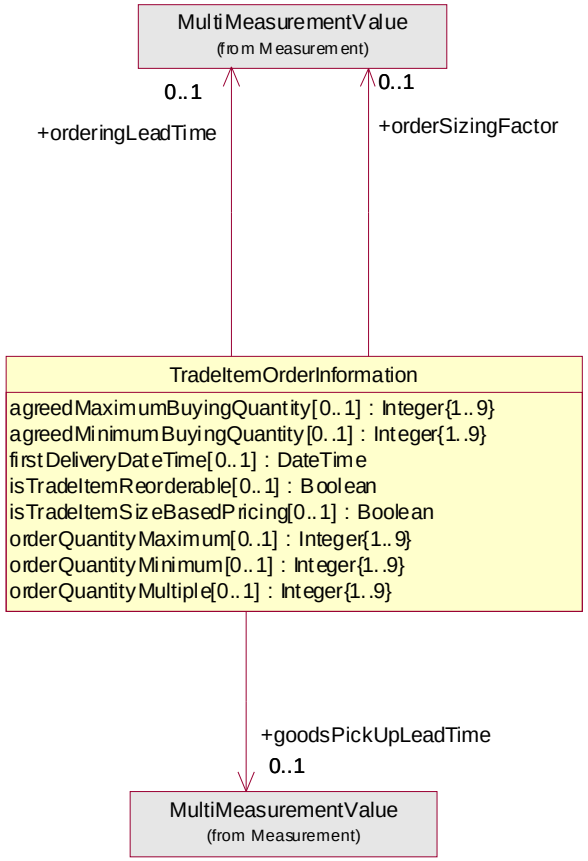
All contents copyright © GS1

5.2.33. Class Diagram Trade Item Measurements



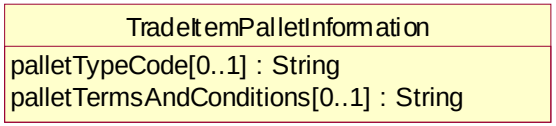
All contents copyright © GS1

5.2.34. Class Diagram Trade Item Order Information

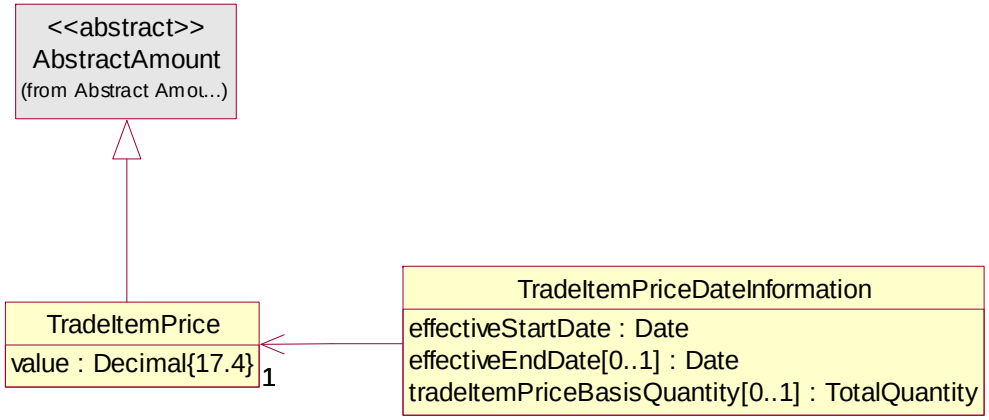


All contents copyright © GS1

5.2.35. Class Diagram Trade Item Pallet Information

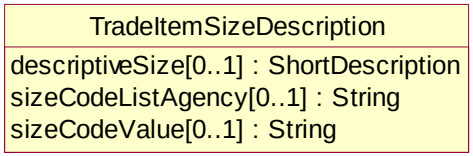


5.2.36. Class Diagram Trade Item Price Date



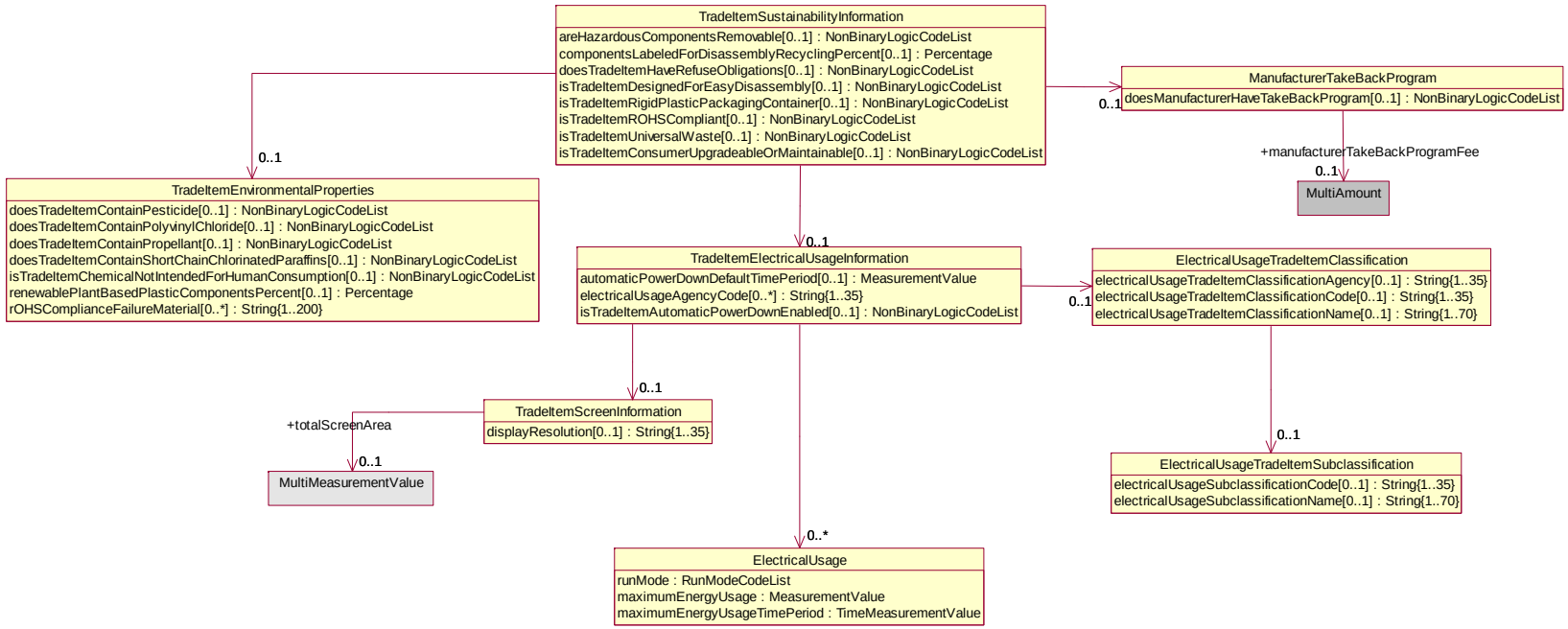
All contents copyright © GS1

5.2.37. Class Diagram Trade Item Size Description



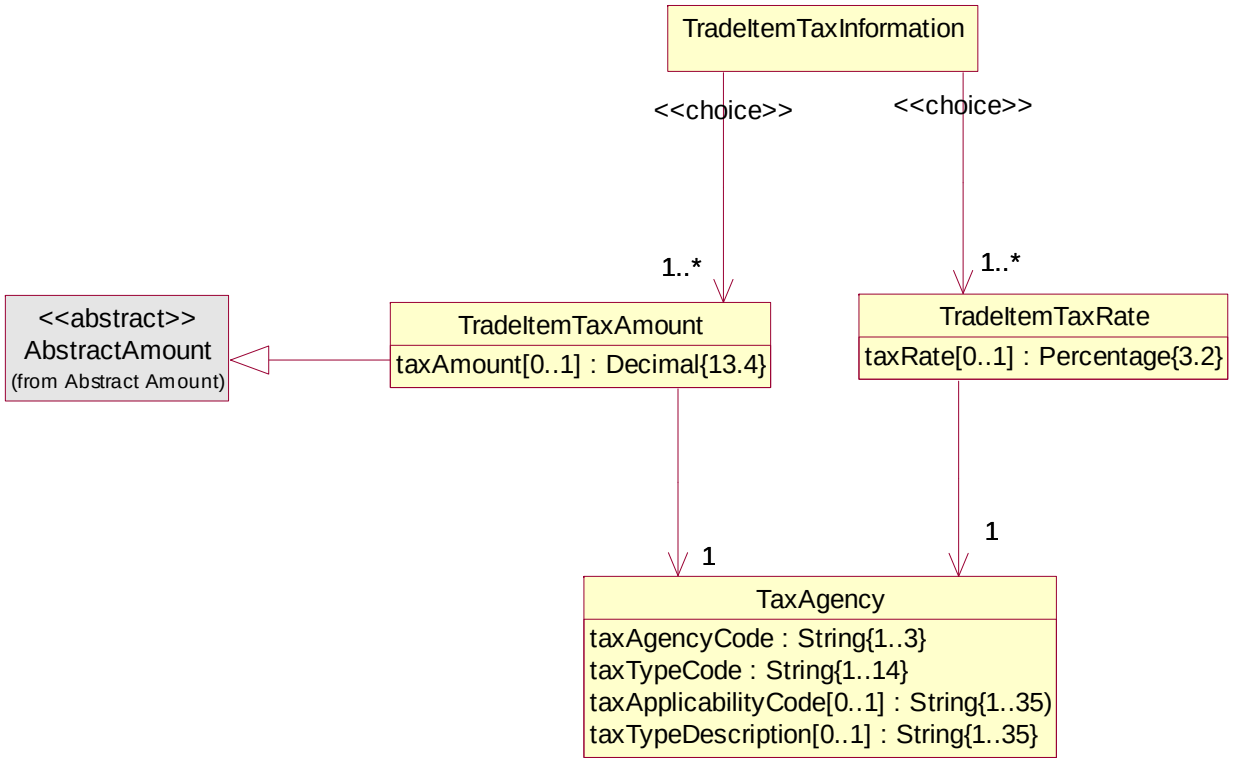
All contents copyright © GS1

5.2.38. Class Diagram Trade Item Sustainability Information



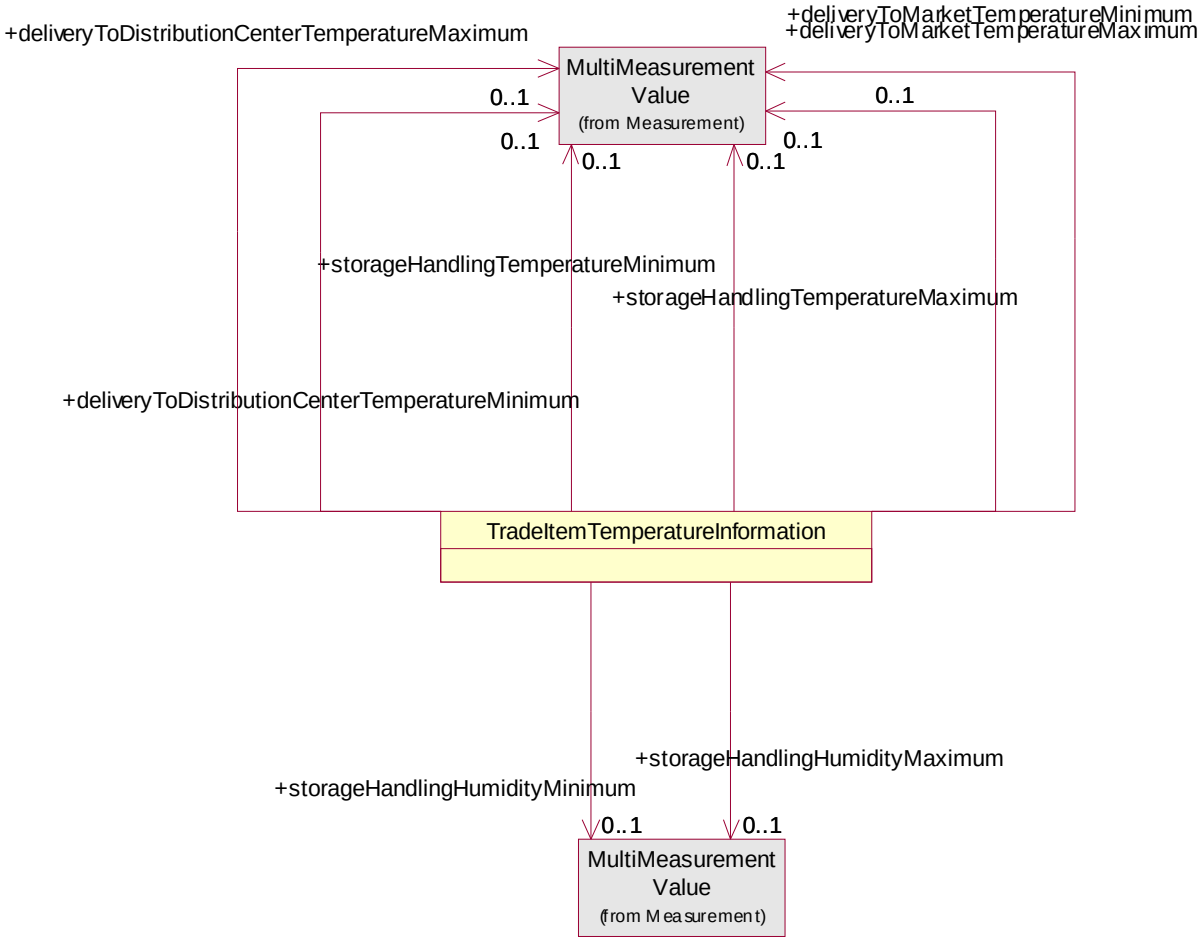
All contents copyright © GS1

5.2.39. Class Diagram Trade Item Tax Information



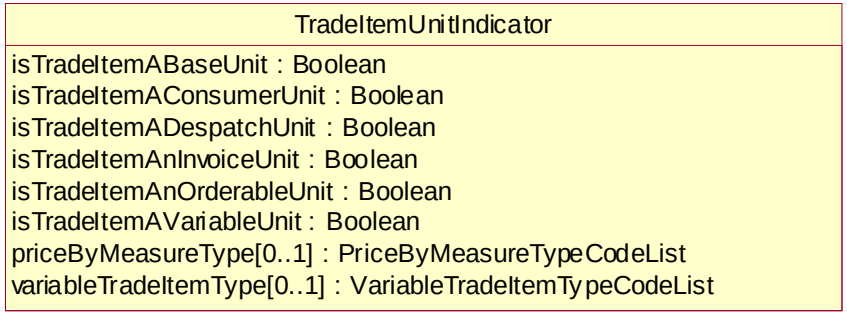
All contents copyright © GS1

5.2.40. Class Diagram Temperature Information

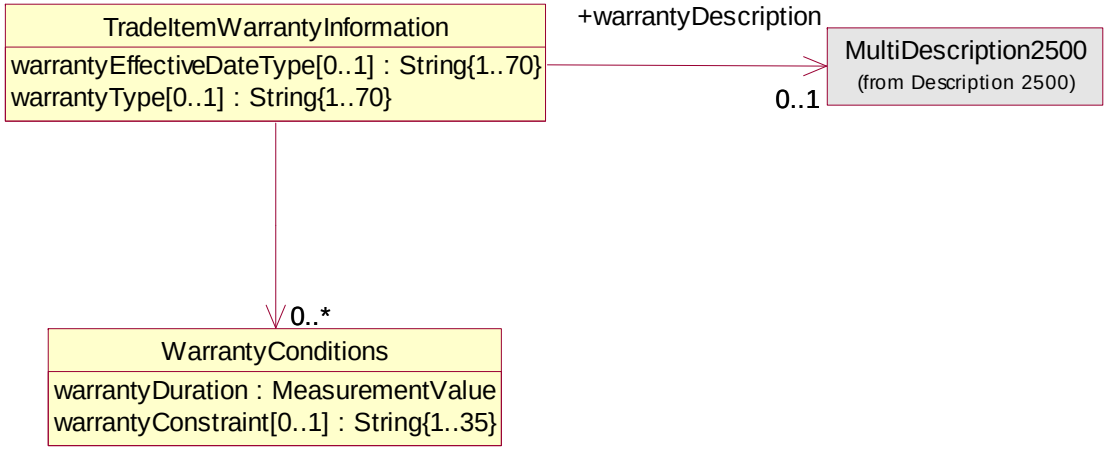


All contents copyright © GS1

5.2.41. Class Diagram Trade Item Unit Indicator



5.2.42. Class Diagram Trade Item Warranty Information



All contents copyright © GS1

5.3. Internal 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**
BLUE_ANGEL	Blue Angel (Blauer Engel) is a German certification for products and services that have environmentally friendly aspects.
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
ECO_LOGO	Formerly known as Environmental Choice. North America's leading benchmark of environmentally

All contents copyright © GS1

	responsible products and services.
ENERGY_STAR	An international standard for energy efficient consumer products.
EPEAT_BRONZE	Electronic Product Environmental Assessment Tool
EPEAT_GOLD	Electronic Product Environmental Assessment Tool
EPEAT_SILVER	Electronic Product Environmental Assessment Tool
EU_ECO_LABEL	A European environmental initiative supported by the European Commission. This is also known as the EU Eco-label “Flower”.
GREEN_SEAL	An independent, non-profit organization that strives to achieve a healthier and cleaner environment by identifying and promoting products.
NORDIC_SWAN	Certification program is administered in Norway, Sweden, Finland and Iceland to make a better environment and has close co-operation with the EU ECO-label.
TCO_DEVELOPMENT	A Swedish company that certifies products and services to provide a better environment
UNDERWRITERS_LABORATORY	The source across the globe for product compliance.
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

All contents copyright © GS1

Code List Name	Code List Description
NestingDirectionCodeList	Depicts the arrangement of two items that nest together specifically whether they nest against each other or on top of each other.
Code Name	**Code Description**
HORIZONTAL	A nesting arrangement where the items hang against each other, like spatulas on a long hanging peg.
VERTICAL	A nesting arrangement where the items stack on top of each other, like bowls.

Code List Name	Code List Description
NestingTypeCodeList	Depicts whether a nested item fits inside or over the other item in a nesting relationship.
Code Name	**Code Description**
NEGATIVE	A nesting arrangement where higher items fit partially inside and are partially obscured by lower ones for example bowls.
POSITIVE	A nesting arrangement where the higher item fits over and partially obscures the lower one for example sports caps.

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.
BIOLOGICAL	Indicates the product has been marked as a biological item which indicates a food product that was produced with the use of feed or fertilizer of plant or animal origin, without employment of chemically formulated fertilizers, growth stimulants, antibiotics or pesticides.
CALORIES_PER_PORTION	Indicates the product has a marking with the calories per portion contained in to the product.
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.

All contents copyright © GS1

GEZONDE_KEUZE_KLAVERTJE	Health symbol used in the Netherlands Target Market which indicates that the item is a cholesterol-reducing product.
HALAL	Indicates the product has been marked as Halal which denotes selling or serving food ritually fit according to Islamic dietary laws.
IK_KIES_BEWUST	Conscious choice symbol used in the Netherlands Target Market which may be used for products low in saturated fat, trans fatty acids, sugar and salt.
KOSHER	Indicates the product has been marked as Kosher which denotes selling or serving food ritually fit according to Jewish dietary laws.
LACTASE_ENZYME	The item is physically marked that it is approved as lactase enzyme by the appropriate authority of the target market.
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.
VEGETARIAN	Indicates the product has been marked as vegetarian which denotes a product that contains no meat, fish or other animal products.

Code List Name	**Code List Description**
PackageMarksEnvironmentCodeList	
Code Name	**Code Description**
EKO	This symbol stands for organic production certified by Skal that meets the requirements of the EU-regulation for organic production. Skal is the inspection body for the organic production in the Netherlands.
<<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.
EU_ORGANIC_FARMING	The EU organic farming logo offers consumers' confidence about the origins and qualities of their food and drink and its presence on any product ensures compliance with the EU organic farming Regulation.
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

 All contents copyright © GS1

	Council label.
RAINFOREST_ALLIANCE	The item is physically marked with the Rainforest Alliance Certified symbol.
SCHARRELVLEES	A symbol used in the Netherlands Target Market intended for meat based products which guarantees that the animals has been growth without the use of antibiotics.
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.
MAX_HAVELAAR	Fair trade symbol used in the Netherlands Target Market awarded to manufacturers which contribute to improving the living and working conditions of small farmers and agricultural workers in disadvantaged regions.
UTZ_CERTIFIED	A certification which is intended to assure the social and environmental quality in coffee production. Coffee based products may be marked with this certification.

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 derivates, 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_PEANUTS	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

All contents copyright © GS1

	(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)

All contents copyright © GS1

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**
RunModeCodeList	
Code Name	**Code Description**
DOWNLOAD_ACQUISITION	The product is connected to a power source, produces neither sound nor a picture, and is downloading information and/or otherwise communicating with a connected device through a network protocol.
IDLE	A low power mode for electronic devices such as computers and televisions. Note: this mode is similar to standby.
OFF	Product is not fulfilling any function nor is it in standby mode.
ON	Product is fulfilling its primary function.
SLEEP	A low power mode for electronic devices such as computers and televisions. Note: this mode is similar to standby.
STANDBY	Product is not fulfil its primary function but still uses some electrical power.

All contents copyright © GS1

Code List Name	Code List Description
SeasonParameterList	
Code Name	**Code Description**
ALL_YEAR	N/A
AUTUMN	N/A
AUTUMN_WINTER	For trade items that are seasonal in nature and apply to both the Autumn and Winter selling seasons
SPRING	N/A
SPRING_SUMMER	For trade items that are seasonal in nature and apply to both the Spring and Summer selling seasons.
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

All contents copyright © GS1

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

All contents copyright © GS1

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

All contents copyright © GS1

Code List Name	Code List Description
TradeItemExternalInformationTypeList	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.
WARRANTY_INFORMATION	Link to a file with information associated with any guarantee given by a company stating that a product is reliable and free from known defects and that the seller will, without charge, repair or replace defective parts within a given time limit and under certain conditions.

Code List Name	Code List Description
TradeItemUnitDescriptorList	Sourced from GDD and Item BRD
Code Name	**Code Description**
BASE_UNIT_OR_EACH	The lowest level of the item hierarchy intended or labeled for individual retail sale.
CASE	The standard shipping unit level.
DISPLAY_SHIPPER	A display, a shipper. May have a “PL” parent. May have (CA or EA) children in multiple instances. It may be Orderable and can be a Consumer Unit.
MIXED_MODULE	A “mixed mod” or “display ready pallet” that is not the normal ‘turn’ for ordering.
MULTIPACK	A group of trade items (the same or different) that are intended to be sold as a single consumer unit at the Point-of-Sale (e.g., a three-pack of men's white T-shirts or a 12-piece set of glassware). A multipack is not intended to be broken apart and sold as individual trade items.
PACK_OR_INNER_PACK	Logistical unit between case and each. This may be a consumable innerpack (i.e. Carton of Cigarettes) or it may be simply a logistical pack (i.e. Dozens of toothbrushes).
PALLET	A pallet is a flat transport structure designed to support a variety of goods in a stable fashion while being lifted by any mobile forklift or other jacking device.
PREPACK	Contains multiple components, each of which represents a unique consumer unit item by color and size. or standard assortment of trade items, each different item within the prepack will be assigned a GTIN maintaining the one-to-one relationship between

All contents copyright © GS1

	trade item/color ID/size ID and GTIN. Each of the component GTINs is scannable at the Point-of-Sale and may or may not be orderable separately outside of the prepack.
PREPACK_ASSORTMENT	Contains multiple components, each of which represents a unique consumer unit item by color and size. Includes prepacks and setpacks.
SETPACK	Contains multiple components, each of which represents a unique consumer unit item by color and size. each different trade item within the setpack will be assigned a GTIN, maintaining the one-to-one relationship between trade item/color ID/size ID and the GTIN. The individual trade item GTIN must be scannable at the Point-of-Sale and may or may not be orderable separately outside the setpack(s). A separate and unique GTIN is assigned to each setpack.

Code List Name	**Code List Description**
VariableTradeItemTypeCodeList	
Code Name	**Code Description**
LOOSE	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. NOTE: In some industries these types of trade items are commonly referred to as BULK. 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. 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.
PRE_PACKED	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. 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).

All contents copyright © GS1

6. Business Document Example

NA

7. Implementation Considerations

7.1. Attributes With External Code Lists

Class Name	Item Name	Code List
ClassificationCategory	additionalClassificationAgencyName	Additional Classification Agency Name
TradeItemDisplayDimensions	displayDimensionTypeCode	DisplayDimensionTypeCodeList
TradeItemScreenInformation	displayResolutionCode	displayResolutionCodeList
TradeItemOrientation	orientationTypeCode	orientationTypeCodeList
PackagingMarking	packagingMarksHygienic	packagingMarksHygienicCodeList
TradeItemEnvironmentalProperties	rOHSComplianceFailureMaterialCode	rOHSComplianceFailureMaterialCodeList
TaxAgency	taxApplicabilityCode	TaxApplicabilityCodeList
TradeItemPriceDateInformation	catalogue Price	Codes for the repres. of currencies and funds ISO 4217:2001
TradeItemClassification	classificationCategoryCode	Classification Attribute Type Code
TradeItemHazardousInformation	classOfDangerousGoods	UN -Class of Dangerous Goods
TradeItemColorDescription	colorCodeListAgency	Color Code List Agency
TradeItemCountryOfOrigin	countryOfOrigin	Country Codes ISO3166-1
TradeItemHazardousInformation	dangerousGoodsRegulationCode	Dangerous Goods Regulations - TBD
TradeItemTemperatureInformation	deliveryToDistributionCenterTemperatureMaximum	UN/CEFACT Recommendation 20
TradeItemTemperatureInformation	deliveryToDistributionCenterTemperatureMinimum	UN/CEFACT Recommendation 20
TradeItemTemperatureInformation	deliveryToMarketTemperatureMaximum	UN/CEFACT Recommendation 20
TradeItemTemperatureInformation	deliveryToMarketTemperatureMinimum	UN/CEFACT Recommendation 20

All contents copyright © GS1

Class Name	Item Name	Code List
TradeItemMeasurements	Depth	UN/CEFACT Recommendation 20
TradeItemDescriptionInformation	descriptionShort	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
TradeItemMeasurements	Diameter	UN/CEFACT Recommendation 20
TradeItemDisplayDimensions	displayDimensionTypeCode	Display Dimension Type Code List
TradeItemScreenInformation	displayResolution	Display Resolution Code List
TradeItemMeasurements	drainedWeight	UN/CEFACT Recommendation 20
EANUCCTradeItemClassification	eANUCCClassificationAttributeTypeCode	Classification Attribute Type Code
EANUCCTradeItemClassificationValue	eANUCCClassificationAttributeValueCode	Classification Attribute Value Code
TradeItemHazardousInformation	flashPointTemperature	UN/CEFACT Recommendation 20
TradeItemDescriptionInformation	functionalName	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
TradeItemMeasurements	grossWeight	UN/CEFACT Recommendation 20
TradeItemHandlingInformation	handlingInstructionsCode	Handling Instructions - TBD
TradeItemMarking	hasBatchNumber	Batch Lot Number Indicator Code-TBD
TradeItemMeasurements	Height	UN/CEFACT Recommendation 20
TradeItemDescriptionInformation	invoiceName	Codes for the representation of names of languages -Part 1: Alpha-2 code- ISO 639-1
TradeItemHandlingInformation	minimumTradeItemLifespanFromTimeOfArrival	Unit of Time Period - TBD
TradeItemMeasurements	netContent	Measure Unit Qualifier
TradeItemMeasurements	netWeight	UN/CEFACT Recommendation 20

All contents copyright © GS1

Class Name	Item Name	Code List
OrganicTradeItemCharacteristics	organicTradeItemCode	Organic Item Code
TradeItemOrientation	orientationType	Orientation Type Code List
PackagingMarking	packageMarksHygienic	Package Marks Hygienic Code List
PackagingMaterial	packagingMaterialCode	Packaging Material Code List Maintenance Agency
Packaging Material	packagingMaterialCodeListMaintenanceAgency	Household Packaging Recovery and Recycling Agencies
PackagingMaterial	packagingTermsAndCondition	Packaging Terms and Conditions Reference 4.8.1
PackagingType	packagingTypeCode	Packaging Type Code
TradeItemPalletInformation	palletTermsAndConditions	Pallet Terms and Condition
TradeItemPalletInformation	palletTypeCode	Pallet Type Code
TradeItemDescriptionInformation	productRange	Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1
PriceOnTradeItem	retailPriceOnTradeItem	Codes for the repres.of agencies and codes ISO 4217;2001
TradeItemEnvironmentalProperties	rOHSComplianceFailureMaterial	ROHS Compliance Failure Material Code List
TradeItemSizeDescription	sizeCodeListAgency	Size Code List Agency
TradeItemHandlingInformation	stackingWeightMaximum	UN/CEFACT Recommendation 20
TradeItemTemperatureInformation	storageHandlingTemperatureMaximum	UN/CEFACT Recommendation 20
TradeItemTemperatureInformation	storageHandlingTemperatureMinimum	UN/CEFACT Recommendation 20
TradeItemPriceDateInformation	suggestedRetailPrice	Codes for the repres. of currencies and funds ISO 4217:2001
TargetMarketInformation	targetMarketCountryCode	Country Codes ISO3166-1
TargetMarketInformation	targetMarketSubdivisionCode	Country Subdivision Code ISO3166-2
TaxAgency	taxApplicabilityCode	taxApplicabilityCodeList

All contents copyright © GS1

Class Name	Item Name	Code List
TradeItemColorDescription	tradeItemcolorDescription	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	tradeItemFormDescription	Codes for the representation of names of languages -Part 1: Alpha-2 code- ISO 639-1
TradeItemHazardousInformation	unitedNationsDangerousGoodsNumber	UNDG Number -DE7124
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 EAN•UCC. The code lists that are reference in this section apply to several attributes within the trade item as well as other business message standards.

Language Code

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

ISO Code Lists

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

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

All contents copyright © GS1

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

All contents copyright © GS1

Code	Code Description
AF	Centigram
C3	Centilitre
CM	Centimetre
1N	Count
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

All contents copyright © GS1

Code	Code Description
JR	Jar
KE	Keg
KG	Kilogram
DK	Kilometre
KT	Kit
LR	Layer(s)
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

All contents copyright © GS1

Code	Code Description
PN	Pounds Net
QT	Quart
QS	Quart Dry
RL	Roll
ST	Set
SH	Sheet
SX	Shipment
FJ	Sizing Factor
SF	Square Foot
SM	Square Meter
SY	Square Yard
15	Stick
TK	Tank
TM	Thousand Feet
TE	Tote
NT	Trailer
TY	Tray
Z52	Usage (e.g. in laundry, 24 usage)
UN	Unit
YD	Yard

All contents copyright © GS1

Additional Classification Agency Name

Code List Name	Code List Description
additionalClassificationAgencyName	Part of AdditionalClassification class. This is a GS1 maintained code List.
Code Name	**Code Description**
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
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	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. Category of product eligible for EU subsidy (applies for certain dairy products with specific level of fat content. 1 Category I – full milk (>3,5 % fat) 2 Category II – standard milk (3,0 – 3,5 % fat) 5 Category V – medium fat milk (1,5 – 1,8 % fat) 7 Category VII – low fat milk (<0,5 % fat) 9 Category IX – other hard cheese (minimum 45% fat) This code list may be subject to change. For information on the latest version refer to the EU administration (in Sweden www.jordbruksverket.se)
17	GS1 Spain. A product classification system maintained by GS1 Spain and used in the Spanish Market.

All contents copyright © GS1

18	GS1 Poland. A product classification system maintained by GS1 Poland.
19	Federal Agency on Technical Regulating and Metrology of the Russia Federation: A Russian government agency that serves as a national standardization body of the Russian Federation.
20	Efficient Consumer Response (ECR) Austria
21	GS1 Italy
22	Common Procurement Vocabulary (CPV) was introduced in 1996 as a means of raising the level of transparency and efficiency in the field of public acquisition. The use of the standard names of the CPV facilitates the marking of the procurement contracts they are interested in. In addition, CPV facilitates the swift and exact translation of contract information for publication in the official EU Bulletin as well as the preparation of procurement statistics. The CPV code consists of eight characters as well as a control character. It is managed by the Office for Official Publications of the European Communities (OPOCE).
23	International Foodservice Distributors Association (IFDA)
24	American Hospital Formulary Service AHFS Pharmacologic - Therapeutic Classification© (AHFS)
25	Anatomical Therapeutic Chemical classification (ATC)
26	Classification des Dispositifs Médicaux (ClaDiMed)
27	Canadian Medical Device Regulations (CMDR)
28	Classificazione Nazionale dei Dispositivi Medici (CND)
30	UK Dictionary of Medicines & Devices(DM&D) Standard Coding Scheme
31	eCl@ss: Standardized Material and Service Classification and Dictionary
32	Classification for in vitro diagnostics medical devices (EDMA)
33	European Generic Article Register Classification (EGAR) standard for medical devices
34	IMS Healthcare Generic Product Classification
35	Global Medical Devices Nomenclature (GMDN)
36	Generic Product Identifier (GPI). A drug code list managed by Medi-Span.
37	Healthcare Common Procedure Coding System (HCPCS): Pronounced as Hick Picks.
38	International Classification for Patient Safety (ICPS). For use in Field Testing in 2007-2008 (WHO).
39	Medical Dictionary for Regulatory Activities (MedDRA): An international terminology employed by the pharmaceutical industry, medical product industry and regulatory agencies throughout the entire drug development process and product post marketing activities. The current version of MedDRA (version 10.0) contains a total of 84,906 unique terms.

All contents copyright © GS1

	MedDRA terminology was developed under the auspices of the International Conference on Harmonization (ICH) of Technical Requirements for Registration of Pharmaceuticals for Human Use and is a registered trademark of the International Federation of Pharmaceutical Manufacturers Associations (IFPMA).
40	Medical Columbus: German Medical classification system.
41	North American Classification System (NAPCS)
42	National Health Service (NHS) eClass: NHS-eClass is a bespoke classification system for products and services, owned by the English National Health Service (NHS). The purpose of NHS-eClass is to facilitate the accurate analysis of expenditure.
43	US FDA Product Code Classification Database: The Product Classification Database contains medical device names and associated information developed by the Center for Devices and Radiological Health (CDRH) in support of its mission. This database contains device names and their associated product codes. The name and product code identify the generic category of a device for FDA. The Product Code assigned to a device is based upon the medical device product classification designated under 21 CFR Parts 862-892.
44	The Society of Hospital Pharmacists of Australia (SHPA)
45	Systematized Nomenclature of Medicine-Clinical Terms (SNOMED CT®)
46	Universal Medical Device Nomenclature System (UMDNS)

Color Code List Agency

Code List Name	Code List Description
ColorCodeListAgency	This is a GS1 maintained code List. Values include:
Code Name	**Code Description**
1	National Retail Federation – Standard Colour & Size Codes This handbook provides guidelines for use in retailers' and vendors' merchandising and communications systems. http://www.nrf.com
2	PANTONE MATCHING SYSTEM The definitive international reference for selecting, specifying, matching and controlling ink colours. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colours on coated, uncoated and matte stock, shows corresponding printing ink formulas for each colour, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control. Pantone® Inc http://www.pantone.com

All contents copyright © GS1

3	PANTONE Process Colour System® Provides a comprehensive palette of more than 3,000 colours achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Colour to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Colour Reference Guides for the graphic arts include metallic, pastels, tints, duotones, film and foil. The PANTONE Hexachrome® Color System Pantone® Inc http://www.pantone.com
4	The PANTONE Hexachrome® Color System A six-colour ultra high quality printing process, reproduces a dynamic range of more brilliant continuous-tone images and simulates brighter, more vivid colours than standard four-color process printing Pantone® Inc http://www.pantone.com
5	PANTONE TEXTILE Colour System® A vital tool for designers in the apparel, home furnishings and interior design industries for selecting and specifying colour used in the manufacture of textiles and fashion. The System - consisting of 1,932 colours in cotton or paper format - is ideal for assembling creative palettes and conceptual colour schemes, and for providing colour communication and control in the manufacturing process. In January of 2001 Pantone Inc. included the NRF Colour Codes into the PANTONE TEXTILE Color System. Pantone® Inc http://www.pantone.com
6	Assigned by Buyer
7	Assigned by Seller

Display Dimension Type Code

Code List Name	Code List Description
DisplayDimensionTypeCodeList	Depicts the display condition used for product measurement.
Code Name	**Code Description**
IN_PACKAGE	Product is measured as the package was supplied.
OUT_OF_PACKAGE	Product is removed from consumer packaging, assembled if necessary for final use and its dimensions. For example: Computer desk; entertainment centre; microwave oven; lawnmower; a floor cleaner; a grouping of table

All contents copyright © GS1

	and chairs; stove; telephone; camera; large appliance (e.g. washing machines); small appliance (e.g. food processors).
RETAIL_DISPLAY	Product is measured as modified for display. For example: Display Ready Packaging with fold-up lid or fold-forward front; a box of chocolate bars with display flap; display stand for dishware; merchandise for consumer purchase that is in a 'display' carton that requires modification, such as a product in cans contained within a carton; free-standing displays for a variety of grocery products, candles, decorative items like picture frames); a laptop computer.

Display Resolution Code List

Code List Name	Code List Description
DisplayResolutionCodeList	The pixel dimensions associated with a television or monitor screen.
Code Name	**Code Description**
320_200	320 by 200
320_240	320 by 240
480_I	480i (720 by 480 split into two 240-line fields)
480_P	480p (720 by 480)
640_480	640 by 480
720_I	720i
720_P	720p (1280 by 720)
720_480	720 by 480
768_576	768 by 576
800_600	800_600
854_480	854 by 480
1080_I	1080i
1080_P	1080p (1920 by 1080 progressive scan)
1024_768	1024 by 768
1152_768	1152 by 768
1280_720	1280 by 720
1280_854	1280 by 854
1280_960	1280 by 960
1280_1024	1280 by 1024
1400_1050	1400 by 1050
1440_900	1440 by 900
1440_960	1440 by 960
1600_1200	1600 by 1200

All contents copyright © GS1

1680_1050	1680 by 1050
1920_1080	1920 by 1080
1920_1200	1920 by 1200
2048_1536	2048 by 1536
2560_1600	2560 by 1600
2560_2048	2560 by 2048

All contents copyright © GS1

Organic Trade Item Code

Code List Name	Code List Description
organicTradeItemCode	This is a GS1 maintained code List.
Code Name	**Code Description**
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)

Organic Claim Agency

Code List Name	Code List Description
organicClaimAgency	This is a GS1 maintained code List.
Code Name	**Code Description**
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
5	BFA - Biological Farmers of Australia

All contents copyright © GS1

Orientation Type Code List

Code List Name	Code List Description
OrientationTypeCodeList	Depicts the display condition used for product measurement.
Code Name	**Code Description**
BAF_000	Back face, rotate clockwise 0°
BAF_090	Back face, rotate clockwise 90°
BAF_180	Back face, rotate clockwise 180°
BAF_270	Back face, rotate clockwise 270°
BOF_000	Bottom face, rotate clockwise 0°
BOF_090	Bottom face, rotate clockwise 90°
BOF_180	Bottom face, rotate clockwise 180°
BOF_270	Bottom face, rotate clockwise 270°
FRF_000	Front face, rotate clockwise 0°
FRF_090	Front face, rotate clockwise 90°
FRF_180	Front face, rotate clockwise 180°
FRF_270	Front face, rotate clockwise 270°
LEF_000	Left face, rotate clockwise 0°
LEF_090	Left face, rotate clockwise 90°
LEF_180	Left face, rotate clockwise 180°
LEF_270	Left face, rotate clockwise 270°
RIF_000	Right face, rotate clockwise 0°
RIF_090	Right face, rotate clockwise 90°
RIF_180	Right face, rotate clockwise 180°
RIF_270	Right face, rotate clockwise 270°
TOF_000	Top face, rotate clockwise 0°
TOF_90	Top face, rotate clockwise 90°
TOF_180	Top face, rotate clockwise 180°
TOF_270	Top face, rotate clockwise 270°

Package Marks Hygienic Code List

Code List Name	Code List Description
packageMarksHygienicCodeList	Indicates the hygienic marking that is present on the product package. Hygienic markings are defined as those related to packaging conditions or practices intended to the preservation or promotion of health.
Code Name	**Code Description**
EXTREMELY_CLEAN	The package is physically marked as extremely clean which is slightly lower level of cleanness than sterile. This means that it is free from bacteria and other microorganisms to a level defined as extremely clean by the appropriate authorities of the target market.
STERILE	The package is physically marked as sterile, which is the highest level of cleanness. This means that it is free from bacteria and other microorganisms to a level defined as sterile by the appropriate authorities of the target market.

All contents copyright © GS1

Packaging Material Code, Packaging Material Code List Maintenance Agency

packagingMaterialCode	The code specifying the packaging material from the code list identified in packagingMaterialCodeListMaintenanceAgency when it contains a value of “E”.
Code Name	**Code Description**
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
54	Special Jumbo
55	Lead
58	Metal

All contents copyright © GS1

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
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

All contents copyright © GS1

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

Code List Name	Code List Description
packagingMaterialCodeListMaintenanceAgency	Part of PackagingMaterialType class. It is String 1 to 3 characters. This should be a GS1 maintained code List.
Code Name	**Code Description**
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.

Packaging Terms and Conditions

Code List Name	Code List Description
packagingTermsAndCondition	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.
Code Name	**Code Description**
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

All contents copyright © GS1

	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.

Packaging Type Code

Code List Name	Code List Description
packagingTypeCode	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

All contents copyright © GS1

	In containers and shipping devices, a component that can be added to provide additional functionality or security as required by the contents or method of transportation/handling
BAG	Bag
BAL	Bale
BBL	Barrel
BRC	Bracing Material or devices used to hold articles or sections of loads in position to prevent shifting during transportation
BDG	Banding Something that binds, ties, or encircles the package/container to secure and maintain unit integrity
BDL	Bundle
BEM	Beam
BIC	Bing Chest
BIN	Bin
BLK	Bulk
BLT	Belting As pertains to containers and shipping devices, a method of securing the contents to the conveyance device (or securing components of the shipping device to each other) using one or more bands of flexible material having high-tensile strength and a buckle or ratchet device for removing slack and maintaining tension
BME	Blister Pack
BOB	Bobbin
BOT	Bottle
BOX	Box
BRG	Barge
BSK	Basket or hamper
BXI	Box, with inner container
BXT	Bucket
CAB	Cabinet
CAG	Cage
CAN	Can
CNA	Household Goods Container, Wood
CAR	Carrier
CAS	Case
CBC	Containers of Bulk Cargo
CBY	Carboy
CCS	Can Case
CG	Card

All contents copyright © GS1

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

All contents copyright © GS1

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.

All contents copyright © GS1

MXD	Mixed
NOL	Noil
PA	Packet
PAF	Pallet – 4 Way A pallet that permits entry of handling equipment on each of its four sides
PAL	Pail
PAT	Pallet - 2 Way A pallet that permits entry of handling equipment on opposing two of its four sides
PCK	Packed - not otherwise specified
PCS	Pieces
PIR	Pirns
PKG	Package
PLC	Primary Lift Container The largest (outermost) unitized package or articles secured together that can be handled (usually mechanically) in common shop floor/warehouse applications as a single entity; "primary" indicates preferred or mandatory
PLF	Platform
PLN	Pipeline
PLT	Pallet
PO	Pouch
POV	Private Vehicle
PRK	Pipe Rack
PRT	Partitioning The proceeds of applying separators or dividers
PUN	Punnet
PWT	Plastic-Wrapped Tray
RAL	Rail (Semiconductor)
RCK	Rack
REL	Reel
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

All contents copyright © GS1

	A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package
SKD	Skid
SKE	Skid, elevating or lift truck
SLP	Slip Sheet Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
SLV	Sleeve
SPI	Spin Cylinders
SPL	Spool
SPR	Separator/Divider In packaging, any material inserted between tiers or layers of articles to prevent contact and provide protection
SRW	Shrink Wrap In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents
STW	Stretch Wrap In packaging, a high-tensile plastic film, stretched and wrapped repeatedly around a unitized load to secure and maintain unit integrity
SV2	SEAVAN A commercial or government-owned (or leased) shipping container which is moved via ocean transportation without wheels attached and is lifted on and off a ship
TBE	Tube
TBN	Tote Bin
TKR	Tank Car
TKT	Tank Truck
TLD	Intermodal Trailer/Container Load (Rail)
TNK	Tank
TRC	Tierce
TRK	Trunk and Chest
TRU	Truck
TRY	Tray
TSS	Trunk, Salesmen Sample
TUB	Tub
UNP	Unpacked
UNT	Unit
UVQ	Wrapped in Plastic
VEH	Vehicles

All contents copyright © GS1

VIL	Vial
VOC	Vehicle in Operating Condition
VPK	Van Pack
VP	Vacuum Packed
WHE	On Own Wheel
WLC	Wheeled Carrier
WRP	Wrapped

Pallet Type Code

Code List Name	Code List Description
palletTypeCode	Part of TradeItemPalletInformation class. It is String 1 to 3 characters. The descriptions are from X12 DE883 and EANCOM DE7065. This should be a GS1 maintained code List.
Code Name	**Code Description**
1	Soft Wood
2	Aluminium
3	As Specified by the Department of Transportation (DOT)
4	Hard Wood
5	Metal
6	Standard
7	Steel
8	Wood
9	Slip sheet Typically cardboard or plastic sheets used to hold product for storage or transportation
10	Pallet ISO 0 - 1/2 EURO Pallet Standard pallet with dimensions 80 X 60 cm.
11	Pallet ISO 1 - 1/1 EURO Pallet Standard pallet with dimensions 80 X 120 cm.
12	Pallet ISO 2 Standard pallet with dimensions 100 X 120 cm.
13	1/4 EURO Pallet Standard pallet with dimensions 60 X 40 cm.
14	1/8 EURO Pallet Standard pallet with dimensions 40 X 30 cm.
15	Synthetic pallet ISO 1 A standard pallet with standard dimensions 80*120cm made of a synthetic material for hygienic reasons.

All contents copyright © GS1

16	Synthetic pallet ISO 2 A standard pallet with standard dimensions 100*120cm made of a synthetic material for hygienic reasons.
17	Wholesaler pallet Pallet provided by the wholesaler
18	Pallet 80 X 100 cm Pallet with dimensions 80 X 100 cm.
19	Pallet 60 X 100 cm Pallet with dimensions 60 X 100 cm.
20	Pallet, modular, collars 80cms * 100cms
21	Pallet, modular, collars 80cms * 120cms
22	CHEP Pallet 40 X 60 cm
23	CHEP Pallet 80 X 120 cm
24	CHEP Pallet 100 X 120 cm
25	AS 4068-1993 Australian Pallet with dimension 115.5 X 116.5 cm
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.

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.

All contents copyright © GS1

Attribute Name	Comments	
	Code	Code Description
	6	One-way pallet Pallet need not be returned to the point of expedition.
	7	Returnable pallet Pallet must be returned to the point of expedition.

ROHS Compliance Failure Material

Code List Name	Code List Description
ROHSComplianceFailureMaterialCodeList	The material used in the trade item that does not comply with the ROHS Directives. ROHS is the "restriction of the use of certain hazardous substances in electrical and electronic equipment".
Code Name	**Code Description**
CADMIUM	A malleable ductile toxic divalent metallic element used in such products as batteries, pigments, and protective platings.
HC	Hexavalent Chromium
LEAD	A soft malleable ductile plastic but inelastic heavy metallic element used in such products as pipes, cable sheaths, batteries, solder.
MERCURY	A silvery-white poisonous metallic element, liquid at room temperature and used in such products as thermometers, barometers, vapour lamps, and batteries.
PBB	Polybrominated Biphenyls
PBDE	Polybrominated Diphenyl Ethers

Size Code List Agency

Code List Name	Code List Description
sizeCodeListAgency	This is a GS1 maintained code List. Values include:
Code Name	**Code Description**
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

All contents copyright © GS1

Tax Applicability Code List

Code List Name	Code List Description
TaxApplicabilityCodeList	
Code Name	**Code Description**
APPLICABLE	Tax applies to the trade item within the target market at the rate specified TradeItemTaxAmount or TradeItemTaxRate.
EXEMPT	The trade item has no taxation requirements nor any requirements related to invoicing or reporting.
HIGH	The Trade Item is taxed at a tax rate that is higher than the standard rate of taxation for trade items. The classification of High is subject to Target Market rules and can change based on regulation.
LOW	The Trade Item is taxed at a tax rate that is at or lower than the standard rate of taxation for trade items. The classification of low is subject to Target Market rules and can change based on regulation.
NOT_APPLICABLE	Tax does not apply to the trade item within the target market.
ZERO	The trade item has a tax rate or amount equal to zero but still has requirements for invoicing and may have a rate that can be modified by the government at any given time.

All contents copyright © GS1

7.3. Relationship to Global Data Synchronization Process

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

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

8. Testing

Not Defined.

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

Not Applicable

All contents copyright © GS1

9. Appendices

9.1. Appendix A: Attribute Variations

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) 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
areHazardousComponentsRemovable	E	N (Global)	T.P.Neutral
automaticPowerDownDefaultTimePeriod	E	N (Global)	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
consumerAvailibilityDateTime	E	Y (Global/Local)	T.P.Neutral
consumerUsageStorageInstructions	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
couponFamilyCode	E	Y (Local)	T.P.Neutral
clampPressure	E	Y(Global/Local)	T.P.Neutral
componentsLabeledForDisassemblyRecyclingPercent	E	N (Global)	T.P.Neutral
dangerousGoodsAMarginNumber	E	Y (Local)	T.P.Neutral
dangerousGoodsHazardousCode	E	N (Global)	T.P.Neutral
dangerousGoodsPackingGroup	E	N (Global)	T.P.Neutral
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
displayResolution	E	Y (Global/Local)	T.P.Neutral
drainedWeight	E	Y(Global/Local)	T.P.Neutral
displayDimensionTypeCode	E	Y(Global/Local)	T.P.Neutral
doesManufacturerHaveTakeBackProgram	E	Y(Global/Local)	T.P.Neutral
doesTradeItemContainPesticide	E	N (Global)	T.P.Neutral
doesTradeItemContainPolyvinylChloride	E	N (Global)	T.P.Neutral
doesTradeItemContainPropellant	E	N (Global)	T.P.Neutral
doesTradeItemContainShortChainChlorinatedParaffins	E	N (Global)	T.P.Neutral
doesTradeItemHaveRefuseObligations	E	Y(Global/Local)	T.P.Neutral
eANUCCClassificationAttributeTypeCode	E	N (Global)	T.P.Neutral

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
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
electicalUsageSubclassificationCode	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
electricalUsageAgencyCode	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
electricalUsageSubclassificationName	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
electricalUsageTradeItemClassificationAgency	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
electricalUsageTradeItemClassificationCode	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
electricalUsageTradeItemClassificationName	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
globalTradeItemNumber	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
hasDisplayReadyPackaging	E	Y (Global/Local)	T.P.Neutral
height	E	Y(Global/Local)	T.P.Neutral
importClassificationType	E	Y (Global/Local)	T.P.Neutral

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
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
isBarCodeOnPackageVariableMeasureBarCode	E	N (Global)	T.P.Neutral
isNetContentDeclarationIndicated	E	Y (Global/Local)	T.P.Neutral
isNonSoldTradeItemReturnable	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
isTradeItemABaseUnit	E	N (Global)	T.P.Neutral
isTradeItemAConsumerUnit	E	N (Global)	T.P.Neutral
isTradeItemADispatchUnit	E	Y (Global/Local)	T.P.Dependent
isTradeItemAnInvoiceUnit	E	Y (Global/Local)	T.P.Dependent
isTradeItemAnOrderableUnit	E	Y (Global/Local)	T.P.Dependent
isTradeItemAVariableUnit	E	N (Global)	T.P.Neutral
isTradeItemMarkedAsRecyclable	E	Y (Global/Local)	T.P.Neutral
isTradeItemReorderable	E	Y (Global/Local)	T.P.Neutral
isTradeItemSizedBasedPricing	E	Y (Global/Local)	T.P.Neutral
isTradeItemAutomaticPowerDownEnabled	E	N (Global)	T.P.Neutral
isTradeItemChemicalNotIntendedForHumanConsumption	E	N (Global)	T.P.Neutral
isTradeItemConsumerUpgradeableOrMaintainable	E	N (Global)	T.P.Neutral
isTradeItemDesignedForEasyDisassembly	E	N (Global)	T.P.Neutral
istradeItemPackedIrregularly	E	N (Global)	T.P.Neutral
isTradeItemRigidPlasticPackagingContainer	E	N (Global)	T.P.Neutral
isTradeItemROHSCompliant	E	N (Global)	T.P.Neutral
isTradeItemUniversalWaste	E	N (Global)	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

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
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
materialSafetyDataSheetNumber	E	N (Global)	T.P.Neutral
materialWeight	E	N (Global/Local)	T.P.Neutral
maximumBuyingQuantity	Unknown	Y (Global/Local)	T.P.Neutral
maximumEnergyUsage	E	Y (Global/Local)	T.P.Neutral
maximumEnergyUsageTimePeriod	E	Y (Global/Local)	T.P.Neutral
minimumTradeItemLifespanFromTimeOfArrival	E	Y (Global/Local)	T.P.Neutral & T.P.Dependent
minimumTradeItemLifespanFromTimeOfProduction	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
nestingDirection	E	N (Global)	T.P.Neutral
nestingType	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
openedTradeItemLifeSpan	E	N(Global)	T.P.Neutral
orderingLeadTime	E	Y (Global/Local)	T.P.Dependent
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
organicTradeItemCode	E	Y (Global/Local)	T.P.Neutral
orientationPreferenceSequence	E	N (Global)	T.P.Neutral

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
orientationType	E	N (Global)	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
packageMarksHygienic	E	Y (Global/Local)	T.P.Neutral
packagingMarkedRecyclableScheme	E	Y (Local)	T.P.Neutral
packagingMaterialCodeListMaintenanceAgency	E	Y (Global/Local)	T.P.Neutral
packagingMaterialCode	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
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
quantityOfCompleteLayersContainedInATradeItem	E	N (Global)	T.P.Neutral
quantityOfInnerPack	E	N (Global)	T.P.Neutral
quantityOfLayersPerPallet	E	Y(Global/Local)	T.P.Neutral
quantityOfNextLevelTradeItemWithinInnerPack	E	N (Global)	T.P.Neutral

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
quantityofNextLowerLevelTradeItem	E	N (Global)	T.P.Neutral
quantityOfTradeItemsContainedInACompleteLayer	E	N (Global)	T.P.Neutral
quantityOfTradeItemsPerPallet	E	Y(Global/Local)	T.P.Neutral
quantityOfTradeItemsPerPalletLayer	E	Y(Global/Local)	T.P.Neutral
renewablePlantBasedPlasticComponentsPercent	E	N (Global)	T.P.Neutral
replacedTradeItemIdentification	E	Y (Global/Local)	T.P.Neutral
retailPriceOnTradeItem	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
rOHSComplianceFailureMaterials	E	Y (Local)	T.P.Neutral
runMode	E	N (Global)	T.P.Neutral
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
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

All contents copyright © GS1

Resolved Item Name	Core/Ext	Can vary by Target Market i.e has status: N (Global), (Global/Local), Y (Local)	Is Trading Partner Dependent (T.P.Dependent) , Trading Partner Neutral (T.P.Neutral) or Both
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
taxApplicabilityCode	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
totalScreenArea	E	Y (Global/Local)	T.P.Neutral
tradeItemCompositiondepth	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
tradeItemCountryOfLastProcessing	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

All contents copyright © GS1

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

All contents copyright © GS1

9.2. Appendix B: Attribute Associations

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
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
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

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
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
consumerAvailibilityDateTime											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
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

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
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
percentageOfAlcoholByVolume											O	N

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
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

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
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
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
eANUCCClassificationttributeTypeName											O	N
eANUCCClassificationAttributeTypeDefinition											O	N
eANUCCClassificationAttributeValueCode											O	N
eANUCCClassificationAttributeValueName											O	N

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
additionalClassificationCategoryCode	O	N	O	N	O	N	O	N	O	N	O	N
additionalCassificationCategoryDescription	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
quantityOfChildren	M	N	M	N	M	N	M	N	M	N		
TradeItemGroupIdentificationCode											O	N
tradeItemGroupIdentificationDescription											D	N
replacedTradeItemIdentification	O	N	O	N	O	N	O	N	O	N	O	N
classOfDangerousGoods	D	N	D	N	D	N	D	N	D	N	D	N
packagingTermsAndCondition	O	N	O	N	O		O	N	O	N	O	N
barCodeType	O	N	O	N	O		O	N	O	N	O	N
additionalTradeItemDescription	O	N	O	N	O		O	N	O	N	O	N
stackingFactor	O	N	O	N	O		O	N	O	N	O	N
isBarCodeOnPackageVariableMeasureBarCode	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
rFIDTaggedCode	O	N	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	O	N
nestingIncrement									O	N	O	N
casingTareWeight											O	N
consumerUsageStorageInstructions									O	Y	O	Y
openedTradeItemLifeSpan									O	Y	O	Y
isPriceOnPack									O	N	O	N
shipFromLocation	O	Y	O	Y	O	Y	O	Y	O	Y	O	Y
tradeItemPriceBasisQuantity	O	N	O	N	O	N	O	N	O	N	O	N

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
packageMarksHygienic											O	N
taxApplicabilityCode	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemCountryOfLastProcessing	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemTradeChannel	O	N	O	N	O	N	O	N	O	N	O	N
warrantyEffectiveDateType	O	N	O	N	O	N	O	N	O	N	O	N
warrantyType	O	N	O	N	O	N	O	N	O	N	O	N
WarrantyConditions	O	N	O	N	O	N	O	N	O	N	O	N
warrantyDuration	O	N	O	N	O	N	O	N	O	N	O	N
warrantyConstraint	O	N	O	N	O	N	O	N	O	N	O	N
warrantyDescription	O	N	O	N	O	N	O	N	O	N	O	N
clampPressure	O	N	O	N	O	N	O	N	O	N	O	N
orientationType	O	N	O	N	O	N	O	N	O	N	O	N
orientationPreferenceSequence	O	N	O	N	O	N	O	N	O	N	O	N
istradeItemPackedIrregularly	O	N	O	N	O	N	O	N	O	N	O	N
displayDimensionTypeCode	O	N	O	N	O	N	O	N	O	N	O	N
displayDimensions	O	N	O	N	O	N	O	N	O	N	O	N
hasDisplayReadyPackaging	O	N	O	N	O	N	O	N	O	N	O	N
nestingDirection	O	N	O	N	O	N	O	N	O	N	O	N
nestingType	O	N	O	N	O	N	O	N	O	N	O	N
electricalUsageTradeItemClassificationAgency	O	N	O	N	O	N	O	N	O	N	O	N
electricalUsageTradeItemClassificationCode	O	N	O	N	O	N	O	N	O	N	O	N
electricalUsageTradeItemClassificationName	O	N	O	N	O	N	O	N	O	N	O	N
electicalUsageSubclassificationCode	O	N	O	N	O	N	O	N	O	N	O	N
electricalUsageSubclassificationName	O	N	O	N	O	N	O	N	O	N	O	N
runMode	O	N	O	N	O	N	O	N	O	N	O	N
displayResolution	O	N	O	N	O	N	O	N	O	N	O	N
totalScreenArea	O	N	O	N	O	N	O	N	O	N	O	N
electricalUsageAgencyCode	O	N	O	N	O	N	O	N	O	N	O	N

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
maximumEnergyUsage	O	N	O	N	O	N	O	N	O	N	O	N
maximumEnergyUsageTimePeriod	O	N	O	N	O	N	O	N	O	N	O	N
renewablePlantBasedPlasticComponentsPercent	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemUniversalWaste	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemRigidPlasticPackagingContainer	O	N	O	N	O	N	O	N	O	N	O	N
doesManufacturerHaveTakeBackProgram	O	N	O	N	O	N	O	N	O	N	O	N
rOHSComplianceFailureMaterial	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemConsumerUpgradeableOrMaintainable	O	N	O	N	O	N	O	N	O	N	O	N
areHazardousComponentsRemovable	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemAutomaticPowerDownEnabled	O	N	O	N	O	N	O	N	O	N	O	N
doesTradeItemContainShortChainChlorinatedParaffins	O	N	O	N	O	N	O	N	O	N	O	N
doesTradeItemContainPesticide	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemROHSCompliant	O	N	O	N	O	N	O	N	O	N	O	N
doesTradeItemContainPropellant	O	N	O	N	O	N	O	N	O	N	O	N
doesTradeItemContainPolyvinylChloride	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemChemicalNotIntendedForHumanConsumption	O	N	O	N	O	N	O	N	O	N	O	N
isTradeItemDesignedForEasyDisassembly	O	N	O	N	O	N	O	N	O	N	O	N
automaticPowerDownDefaultTimePeriod	O	N	O	N	O	N	O	N	O	N	O	N
componentsLabeledForDisassemblyRecyclingPercent	O	N	O	N	O	N	O	N	O	N	O	N
doesTradeItemHaveRefuseObligations	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemPriceBasisQuantity	O	N	O	N	O	N	O	N	O	N	O	N
packageMarksHygienic	O	N	O	N	O	N	O	N	O	N	O	N
taxApplicabilityCode	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemCountryOfLastProcessing	O	N	O	N	O	N	O	N	O	N	O	N
tradeItemTradeChannel	O	N	O	N	O	N	O	N	O	N	O	N

All contents copyright © GS1

	Mixed Module (MX)		Pallet (PL)		Displays, Shippers or Mixed Cases (DS)		Case (CS)		Pack/InnerPack (PK)		Each (EA)	
Resolved Item Name	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common	M/O/D Status	Common
warrantyEffectiveDateType	O	N	O	N	O	N	O	N	O	N	O	N
warrantyType	O	N	O	N	O	N	O	N	O	N	O	N
WarrantyConditions	O	N	O	N	O	N	O	N	O	N	O	N
warrantyDuration	O	N	O	N	O	N	O	N	O	N	O	N
warrantyConstraint	O	N	O	N	O	N	O	N	O	N	O	N
warrantyDescription	O	N	O	N	O	N	O	N	O	N	O	N

All contents copyright © GS1

9.3. Appendix C: Trade Item Descriptor Usage

tradeItemDescriptor	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
(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

All contents copyright © GS1

10. Summary of Changes

Change	BMS Version	Associated CR Number
o 1.5.4 Changed Trade Item Information Class Diagram for relationship to GDSNTradeItemClassification. o 1.5.22 Changed Trade Item Classification to GDSNTradeItemClassification	9.0.3	
o Made following attributes optional o packagingMaterialDescription o packagingTypeDescription o additionalClassificationCategoryDescription o classificationCategoryDefinition o classificationCategoryName o eANUCCClassificationAttributeTypeName o eANUCCClassificationAttributeValueName o tradeItemDescription o taxTypeDescription o Deprecated the value EAN_UCC_14 Symbol from and added NO_BARCODE to Bar Code Type List. o Changed Attribute Association by Trade Item Hierarchy Level for Net Content to allow for population at all levels. o Changed field length of subBrand to 1..70 and TradeItemDescription.text to 1..178. o Section 1.9.2 o Per Align CR 04-000069 - Updated Table for following attributes allowing for population at any level of the product hierarchy. o quantityOfLayersPerPallet o quantityOfTradeItemsContainedInACompleteLayer o palletTypeCode o PalletTermsAndConditions o Changed packagingTermsandConditions to packagingTermsAndCondition. o Updated definition of TradeItemDescription to eliminate field length references.	9.0.4 – 9.0.5	05-000389, 04-000129
o Updated the following code lists with new code values requested by the GDSN MR1 o Special Item Code List (NOT_FOR_RESALE_TO_CONSUMER) o Packaging Material Code List (98) o Size Type Code List (CHEST_BUST, HIP,OUTSIDE_LEG) o Additional Classification Agency Name Code List (7,8,9,10,11,12,13,14) o Packaging Terms and Conditions Code List (12) o Added business rules from Item BRD to section 1.4.2 o Added Core and Extension Information to Appendix A. o Updated Business Rules for Target Market Subdivision Code, Functional Name, Trade Item Country Of Origin, Net	9.0.6	06-000182, 06-000275, 06-00313, 06-000331, 06-000340, 06-000343

All contents copyright © GS1

Weight.		
o Removed Code 12 (ECC) from the AdditionalClassificationAgencyCodeList	9.0.7	07-000276
o BMS Template Migration to BMS Template V1.8 o Added the code value to handle EU Dairy Subsidy Category in to the Additional Classification Agency Code List. o Changed the attributes quantityOfTradeItemsPerPalletLayer, quantityOfLayersPerPallet and quantityOfTradeItemsPerPallet to be variable by Target Market. o Added a new code value to the Pallet Type Code List: Platform of Unspecified Weight or Dimension. Code List Number 27. o Updated the data type ingredientStrength in the GDD report to Multi Measurement to match the model. o Added a new attribute rFIDTaggedCode to the Trade Item Neutral Trade Item Information class. o Added a new attribute isBarCodeOnPackageVariableMeasureBarCode to the Trade Item Neutral Trade Item Information class. o Added new attribute layerHeight to the Trade Item Measurements class. o Added new attribute nestingIncrement to the Trade Item Measurements class. o Added new attribute packagingWeight to the Packaging Type class. o Added new attribute casingTareWeight to the Trade Item Measurements class. o Added new attribute openedTradeItemLifespan to the Trade Item Handling Information class. o Added new attribute consumerUsageStorageInstructions to the Trade Item Handling Information class. o Changed multiplicity on the suggestedRetailPrice attribute. o Added new attribute isPriceOnPack to the Packaging Marking class. o Change the packagingMaterialCode, packagingMaterialCodeListMaintenanceAgency and packagingMaterialCompositionQuantity multiplicity to be optional. o Changed the attribute sizeCodeListAgency and sizeCodeValue multiplicity to be optional. o Changed the attribute flashPointTemperature to be optional. o Added shipFromLocation Name and GLN to Trade Item Neutral Trade Item Information. o Added new code value to handle Pallet to the Pallet ISO T11 in to the Pallet Type Code List. Code Value 26. o Added new code value to handle the JICFS classification on the Additional Classification Agency Code List. Code Value 15. o New rule added for all the attributes with Multimeasurement data type o All the attributes with multi measurement data type changed	9.0.8	

 All contents copyright © GS1

from Global to (Global/Local) o 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. o Added Link to External File Information from Trade Item Description Information and associated code list TradeItemExternalInformationTypeList. Deprecated the attribute linkToExternalDescription. o Added two new attributes to the ExternalFileInformation link fileEffectiveEndDateTime and fileEffectiveStartDateTime o 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 o 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_GLUTEN, FREE_FROM_PVC, REDUCED_PROTEIN, WITHOUT_ADDED_SUGAR, WITHOUT_ADDED_SWEETENER o Added the following values to packageMarksEnvironment code list: MARINE_STEWARDSHIP_COUNCIL_LABEL, RAINFOREST_ALLIANCE, SWEDISH_SEAL_OF_QUALITY, FOREST_STEWARDSHIP_COUNCIL_LABEL, EU_ECO_LABEL, GMO_MARKED o Added the following values to priceComparisonContentType code list: PER_CUBIC_METRE, PER_SQUARE_METRE. o Added the following values to the TradeItemExternalInformationTypeList MARKETING_INFORMATION, OTHER_EXTERNAL_INFORMATION and PLANOGRAM o Appendix C added. Table referencing the Trade Item Unit Descriptor usage.		
o Per requirement changed relationship to priceOnTradeItem to 0..* . o Reverted suggestedRetailPrice to 0..1 (same as last release) as this attrubute was not required to be made 0..* o Added example from approved BRD to NestingIncrement definition. o Deprecated the code value EU_BLOMMA on PackageMarksEnvironmentCodeList as this value has been replaced by EU_ECO_LABEL. o Moved CONTAINS_LATEX to PackageMarksDietAllergen code list.	9.0.9	Comment Review

All contents copyright © GS1

o 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.	9.1.0	Errata found during e-ballot.
o Added definitions for code list values "LOOSE" and "PRE_PACKED" in the VariableMeasureTradeItem Code List. o Added the Value 17 to additionalClassificationAgency Code List. o Added the value PNT to represent Points to the Unit of Measure code list.	9.1.1	Code List Update
o Added the Value 17 and 19 to additionalClassificationAgency Code List.	9.2.1	

o Added class diagram for Trade Item Sustainability Information
o Added class diagram for Trade Item Warranty Information
o Updated Trade Item Tax Information
o Updated Trade Item Price Date to add Trade Item Price Basis Quantity
o Updated Trade Item Measurements to add the following associations to (TradeItemNesting, tradeItemCompositionDepth, TradeItemDisplayDimensions) and the following attribute hasDisplayReadyPackaging. Added new classes TradeItemNesting and TradeItemDisplayDimensions.
o Updated Trade Item Handling Class for Clamp Pressure.
o Updated Trade Item Hazardous Information to make all attributes optional.
o Updated Packaging Marking Class to add packageMarksHygienic
o Updated Non Package Trade Item Dimension to make sizeType optional.
o Updated Trading Partner Neutral Trade Item Information for: changing cardinality on TradeItemTaxInformation, and Season, adding tradeItemCountryOfLastProcessing, TradeItemSustainabilityInformation and TradeItemWarrantyInformation.
o Updated the Trade Item Information Class to add tradeItemTradeChannel.
o Updated Trade Item Hierarchy to add the attribute istradeItemPackedIrregularly.
o Added or Updated following Code Lists:
  o Class Compliance Regulation Code List
  o Display Resolution Code List
  o Orientation Type Cpde List
  o Trade Item External Information Type List
  o Package Marks Diet Allergen Code List
  o Package Marks Environment Code List
  o Package Marks Ethical Code List
  o Season Parameter Code List
  o Package Marks Hygienic Code List
  o Tax Applicability Code List
  o Display Dimension Type Code List
  o Nesting Direction Code List
  o Nesting Type Code List
  o ROHS Compliance Code List
  o Run Mode Code List
Public Review Results
o Added EU_ORGANIC_FARMING to
	9.2.6(V 2.3)	

 All contents copyright © GS1

PackageMarksEnvironment Code List. o • Changed to UTZ_KAPEH to UTZ CERTIFIED in PackageMarksEthicalCodeList o • Changed the code list value EUROPEAN_UNION_FLOWER: in Class Compliance Code List to EU_ECO_LABEL o Clarified business rule for Clamp Pressure. o Changed status of tradeItemCompositionDepth to global. o Changed business rules for file type, file start effective date and file name to make them conditional on the file being an image.		
o Specified Unit of Measure to populate for TradeItemCompositionWidth and TradeItemCompositionDepth o Eliminated reference to autopopulation of TradeItemDescription.	9.2.7	Errata
o Efficient Code List Deployment: o Additional Classification Agency Code (20,21,22,23,24,25,26,27,28,30,31,32,33, 34,35,36,37,38,39,40,41,42,43,44,45,46) oOrganic Claim Agency (5) o Erratta: oAdded 1920_1080 to Display Resolution Code List	9.2.8	•08-000220 •08-000247 •08-000258 •08-000227 •09-000005

All contents copyright © GS1