Business Requirements Group (BRG)

Business Requirement Document For

Data Synchronization Data Model for Trade Item (Data Definition)

Version 7.7.1

May 24, 2005
## DOCUMENT HISTORY

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<tr>
<td>Document Issue Date</td>
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</table>

## Document Summary

**Document Title:** EAN•UCC – Business Requirements Document For Data Synchronization Data Model for Trade Item – (Data Definition)  

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**Status:** For ITRG approval – BRG Approved

## Document Change History Log

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>February 17, 2001</td>
<td>X.0</td>
<td>Messaging Architecture</td>
<td>Documentation to support the Core Item Business Process and to reflect the UCC UML methodology standards</td>
<td>XXXXX</td>
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<td>February 28, 2001</td>
<td>2.0.1</td>
<td>Common Data Item Rpt</td>
<td>Edited the Common data item report.</td>
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<tr>
<td>April 27, 2001</td>
<td>2.0.4</td>
<td>Added the Item Containment</td>
<td>Item Containment is described and has models but no attribute lists</td>
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<tr>
<td>May 8, 2001</td>
<td>3.1</td>
<td>Comments at Vote</td>
<td>Approved BRD with the title of “Core Item &amp; Extension of Relationship Dependent Data to Enable Trade” (This document input to approved July 2001 Business Message Standard – Simpl eb)</td>
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<tr>
<td>June 5, 2001</td>
<td>4.1</td>
<td>Meeting in Orlando</td>
<td>See section 4.4 Change Summary that was documented on change request 01-000009</td>
<td>01-000009</td>
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<tr>
<td>May 9, 2002</td>
<td>5.0</td>
<td>UCC work group meeting and submittal to Align Data BRG (Item Task Group)</td>
<td>BRD format was upgraded to GSMP standards. Changed title of the document to “Core Item &amp; Extension of Cross industry Data”</td>
<td>01-000011 01-000064 01-000065</td>
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<tr>
<td>May 10, 2002</td>
<td>V0.6.0</td>
<td>Models upgraded to match text changes</td>
<td>Class diagrams in the BRD were upgraded to reflect the text changes made in V0.5.0</td>
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<td>Notes</td>
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<tr>
<td>July 19, 2002</td>
<td>V0.6.1</td>
<td>Change to Section 3.0</td>
<td>Combined GCI and UCC</td>
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<td>standards work.</td>
<td>02-000065</td>
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<td>August 12, 2002</td>
<td>V0.6.2</td>
<td>Change to Section 3.0. Add Section 5.0</td>
<td>Changes to data dictionary.</td>
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<tr>
<td>Sept. 11, 2002</td>
<td>V0.6.3</td>
<td>Merged updates Implementation Section incorporated</td>
<td>Updates made to text from Item Project Team.</td>
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<td>Oct. 10, 2002</td>
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<td>Merged updates</td>
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<td>Oct. 22, 2002</td>
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<td>Merged updates Models upgraded Implementation Section upgraded</td>
<td>Updates made to text from Item Project Team.</td>
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<tr>
<td>Nov. 21, 2002</td>
<td>V7.1</td>
<td>Models upgraded, Text upgraded, Attributes grouped to reflect UML.</td>
<td>Updates made to text based on comments resulting from Public Review by Align BRG. Changes to document agreed by project team.</td>
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<tr>
<td>April 9, 2003</td>
<td>V7.2.1</td>
<td>Errata Changes</td>
<td>Reference separate document titled “TRADE ITEM – CORE AND EXTENSION – V. 7.2.1- Errata Change Summary</td>
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<tr>
<td>May 5, 2003</td>
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<td>Errata Changes</td>
<td>Table on Appendix A – Attribute Variations checked to match the attribute conditions in the text.</td>
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<td>June 4, 2003</td>
<td>V7.3</td>
<td>Errata Changes</td>
<td>Incorporates Errata resulting from ITRG’s review.</td>
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<tr>
<td>June 7, 2004</td>
<td>V 7.4</td>
<td>Incorporation of Item Regional Attributes</td>
<td>Changed Trading Partner Neutral Information Model to eliminate Is Item Green Dot. 03-000082</td>
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<tr>
<td>July 19, 2004</td>
<td>V 7.5</td>
<td>Added the code list into section 4.8.1</td>
<td>Additional code list added to section 4.8.1 04-000035</td>
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<tr>
<td>December 15, 2004</td>
<td>V 7.6</td>
<td>Added Appendix E: Trade Item Implementation Feedback</td>
<td>Incorporated Trade Item Implementation Feedback 04-000044</td>
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<tr>
<td>April 4, 2005</td>
<td>V 7.7</td>
<td>Feedback from 1.3.1 BRD vs. XML</td>
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<tr>
<td>May 24, 2005</td>
<td>V 7.7.1</td>
<td>Errata - Update of Trade Item Classification</td>
<td>Changed to GDSN Trade Item Classification. Removed remaining references to alternate party and item identifiers. Corrected formatting issues.</td>
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**Approvals**

<table>
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<tr>
<th>Name</th>
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FOREWORD

"Implementation of this Item standard requires adherence to the business rules contained in this document in addition to adherence to the technical schema as it is designed. In order to enable reusability and commonality across the EAN.UCC Business Message Standards, a common library has been developed to support the technical implementation of the EAN.UCC standards into XML schemas resulting in standardized data types and field sizes. As a result, the schema will accommodate the data types and field sizes as defined in this standard, however, the schema does not enforce any specific field sizes as defined by the business requirements."

1.0 Business Opportunity:

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

1.1 Problem Statement:

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.

1.2 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.

1.3 References:

- The legacy: the Global Data Alignment System (GDAS)
- "ELECTRONIC CATALOGUES EAN RECOMMENDATIONS COMMON SET OF DATA" (June 1998-June 1999)
- GLOBAL DATA DICTIONARY- Item Data Model – General Overview, Version 1, Global Commerce Initiative, Global Data Dictionary Group, March 31, 2002
• EAN.UCC Business Message Standards Version 1.0, July 2001
• Core Party Business Requirements Document, Version 6.0 of May 10, 2002
• Core Item and Extension of Trading Partner Neutral Data, Version 0.6.0 of May 10, 2002
• EAN.UCC Global Business Model (Process and Data), October 1999
• Java Framework for SIMPL-EDI Requirements Specification, April 2000
• Simple eb(electronic business), March 2000
• BPAWG Model of the International Supply Chain Domain (interim report), January 2000
• Change Requests: 01-000009, 01-000010, 01-000064, 01-000065.
• Change Request 02-00065

Note: The following text was extracted from a letter sent to the Align Data BRG on March 31, 2003: “Due to the timing of this policy paper and the dialogue going on within the user community regarding how it will affect the standards, the Executive Management Team decided that the policy would be implemented in version 2.0 of the standards, which should be published in 2004.”

Additionally, the existing Electronic Data Interchange messages in widespread use were mined for their business content.

• UCS 888 Item Maintenance
• VICS EDI 832 Price Sales Catalog
• I/C EDI 832 Price Sales Catalog
• EANCOM® PRICAT

Acknowledgement is also due to the work going on in the XML environment.

• ebXML/SOAP
• eCo Framework (Common Business Library)
• Rosettanet
• W3C
### 1.4 Acknowledgements:

**Members of the Item Project Team as of October 17, 2002**

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Buckley, Greg</td>
<td>Pepsi-Cola USA</td>
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<td>Eggert, Jack</td>
<td>EAN.UCC, BRG Manager</td>
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<tr>
<td>Ryu, John</td>
<td>EAN.UCC, Business Process Modeler</td>
</tr>
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<td>Schneider, Maria</td>
<td>EAN.UCC, Project Team Manager</td>
</tr>
<tr>
<td>Steck, Terry</td>
<td>EAN.UCC, Database Support</td>
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</table>
2.0 Process View – General Requirements:

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.

2.1 Use Case Scenario:

There is only one scenario in the Item data communication process as described in problem statement of section 1.1. Item data alignment is the process of communicating the core item and cross industry data elements following the establishment of a business relationship between supplier, buyer or third party.
2.1.1 Business Opportunity/Problem Statement

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.

2.1.2 Actors

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.
2.1.3 Preconditions

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 the buyer. Other data alignment follows such as item and price attributes.

2.1.4 Process Start

The start-state of the Data Sync Trade Item business process begins during the initial discussions between the trading partners and the need to exchange item information.

2.1.5 Process End

Once the Data Sync Trade Item business message has been accepted by both the seller and buyer, then 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.

2.1.6 Post Conditions

The end-state of the Data Sync Trade Item business process occurs when the parties have achieved Party and Item data alignment.

2.1.7 Process Activities

<table>
<thead>
<tr>
<th>Step #</th>
<th>Actor</th>
<th>Activity Step</th>
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<tbody>
<tr>
<td>1</td>
<td>All</td>
<td>All preconditions have been met.</td>
</tr>
<tr>
<td>2</td>
<td>Seller</td>
<td>Communicates item data.</td>
</tr>
<tr>
<td>3</td>
<td>Buyer</td>
<td>Receives item data.</td>
</tr>
<tr>
<td>4</td>
<td>Buyer</td>
<td>Applies item data or notifies the seller of any errors in the data.</td>
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</table>

See the work completed by the data synchronization project team for a detailed view of data communication.

3.0 Logical View

The Data Sync Trade Item messages include the item’s unique identification, descriptions, and characteristics.
3.1 Definition of Conditions

To help with the implementation of this data model, several key definitions are listed below.

**Master Data/Transactional Data** –

- Master data is considered to be that set of data that describes the specifications and structure of each item and party involved in the supply chain processes. The uniqueness of the data associated with a trade item is given only by the GTIN. This data is static, not dependent on a transaction.

- Transactional data is that set of data that can only be determined during a business transaction, i.e., plan, sell, buy, and deliver cycle. (E.g. actual amount of cases delivered).

- NOTE – this data model only includes master data

**Master Data Alignment**

- Master Data Alignment is the process of timely distribution of accurate Master Data from one partner to others and the correct use of this data. Such synchronization and use of Master Data leads to more accurate business transactions and therefore reinforces the efficiency of the supply chain operations.

- Successful Master Data Alignment is achieved via the use of EAN.UCC coding specifications throughout the supply chain, communication of all changes and new information between trading partners and use of the information exchanged in subsequent transactions.

- Master Data Alignment relies on EAN.UCC specifications concerning the Unique Identification of Items, GTIN and Parties GLN.

**Core attributes:**

- An attribute whose definition is common across all Industries

- Core attributes are common across all geographies. I.e. ALL Target Markets

- These attributes do not necessary need to be maintained by the Registry.

- Core attributes CANNOT be relationship dependant. They are trading partner neutral only

**Extension attributes:**

- An extension is an attribute that is relevant to one or more industries (not all EAN.UCC Industries)

- The definition of an extension attribute is common to all Industries who use the attribute.

- Each Industry is responsible for determining the extension attributes that are relevant to their Industry.

- New extension attributes may be submitted/requested for a specific Industry as necessary.
• The conditions of extension attributes can vary by each industry. E.g. Mandatory/Optional, Global/Local, Trading Partner Neutral/Relationship Dependent, and Common to all Hierarchy levels.

• Industry user groups should be developed in concert with the EAN.UCC GSMP Process, to determine their relevant extension attributes and the conditions associated with those attributes.

• Process user groups such as CPFR and local (target market) extensions.

Trading Partner Neutral/Trading Partner Dependent

Values for an attribute can vary depending on the relationship with the party receiving the data. The Trading Partner Neutral/Trading Partner Dependent status indicates this rule.

• The condition Trading Partner Neutral is applied to any attribute whose value is independent on a buyer and seller relationship. An attribute, which has the condition Trading Partner Neutral, can have only one set of values.

• The condition Trading Partner Dependent is applied to any attribute whose value is dependent on a buyer and seller relationship. An attribute, which has the condition Trading Partner Dependent, can have only one set of values per GLN of Party Receiving Data. These are attributes whose value is dependent on a specific point-to-point agreement between a buyer and a seller.

• An attribute which has the condition Trading Partner Neutral & Trading Partner Dependent, can have only one set of values for the Trading Partner Neutral value AND one set of values per GLN of Party Receiving Data

Multiple Values allowed:

This condition is used to indicate that multiple values can be submitted for a trade item.

E.g. multiple types of packaging on a trade item e.g. plastic, cardboard etc

Where there is a need to express multiple measures, these are handled through indicating the attribute type as 'Measurement'. Both the value and UOM can be repeated, and must be used together. See section 4.6 on Unit of Measure in the implementation consideration and concerns.

Where there is a need to express multiple language versions, these are handled through indicating the attribute type as 'Text Description'. See section 4.4 on Language in the implementation consideration and concerns.

Market Group

• A Market Group is used to identify a proprietary group of data recipients. It is normally determined by the information provider although it can also be
created by buyers and third parties. This group is used and developed by the information provider to control the publication of data to a specific group of customers. This should not be confused with Target Market.

**Target Market Country Code**

- The purpose of the target market country code is to organize master data to meet the requirements of specific geographies.
- The purpose of this field is to explain where a manufacturer is intending to sell its product(s) to a buyer. It does not control where the buyer can resell the product(s) to the end consumer.
- It is the country, (the geopolitical area) where the product is to be sold and available for publication in an Item Catalog.
- Target Market Country Code in relationship to Master Data, can be Trading Partner Neutral only. A Target Market Country Code is **not used** to control Distribution or Consumer Market Area geographies. E.g. product available for shipment from a single Distribution Center.

**Target Market Sub-Country Code**

- A sub-country code level used to address/comply with a “law making” requirement associated with a country.
- The number of sub-country codes will vary by each country. These will match with the legislation requirements of each country. (Local bottle deposit tax laws, State and country taxes)
- Not all countries will have sub-country codes.
- A sub-country code must be associated with a Target Market Country Code. It cannot stand-alone.

**Global/Global-Local/Local**

- All attributes are impacted by their geo-political relevance. This condition can be used by information providers as they build data models. With this information, they can limit the attributes communicated to those relevant for that geography.
- A global attribute indicates that the attribute is relevant for business cases around the world, and can only have a single value throughout the world. (E.g. GTIN)
- A global/local attribute indicates that the field is relevant for business cases around the world, that its definition is the same around the world, but may have a different value depending on the geography. (E.g. VAT tax values, 1.00 in France, 1.05 in Belgium)
- A local attribute is only relevant in certain geographical areas, and the values may change based on where the product is offered for sale. (E.g. green dot – only relevant in certain European countries)
How does the Global/Global-Local/Local condition, and Target Market value interact to affect attribute values?

- An attribute, which has the condition ‘Global’, can have only one global value (except where there are multiple values allowed).

- An attribute which has the condition Global / Local can have one value per Target Market specified (except where there are multiple values allowed). A Global/Local attribute indicates that the field is relevant for business cases around the world, that its definition is the same around the world, but may have a different value depending on the geography. (E.g. the attribute - VAT tax values are relevant globally, but the actual value, 1.00 in France, 1.05 in Belgium varies by country)

  As long as the attribute values apply consistently to the GTIN, GLN, TM combination the values are repeatable.

Example:

GTINa + GLNa + TMa + b, = Ohio, Indiana. Start availability date = January 1, 2003

Target Market can be repeated where the values for the attribute are the same e.g. start availability date is the same for the GTIN + GLN + TM combination data set.

GTINa + GLNa + TMc = Kentucky. Start availability date = January 15, 2003

- An attribute, which has the condition Local, can have only one value for the Target Market that is valid for (except where there are multiple values allowed).

Attribute Cardinality

Mandatory
An attribute in this model is mandatory when its value is required.

Optional
An attribute in this model is Optional when its value is not required.

Dependent
An attribute in this model is depended when its value is conditional on some other attribute’s value.

Type
The following data types are used in this model:

Alphanumeric (AN)
Amount
Boolean
Char
Description
Date
dateTime
integer
long description
long text description
measurement
measurement value
numeric (N)
party identification
percentage
text description

Trade Item
• 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.

In addition, the supply chain is any point from the inception of the product through the final consumption and disposal/reuse/recycling/return of that trade item. Reference General EAN.UCC Specifications for definitions of the term ‘trade item’, ‘retail consumer trade item’, and ‘standard trade item grouping’.  

Party
• A Party (or) Location is any legal, functional or physical entity involved at any point in any supply chain and upon which there is a need to retrieve pre-defined information.

Product Hierarchy Reference Level
This condition is used to indicate at what level of the product hierarchy each attribute is relevant. For some attributes, business requirements are such that the attribute only needs to be provided at a specific level.

Example – “netContent” this field is only required at the consumer unit level.
For most attributes, a value must be entered for all attribute levels.

Common Value to all Product Hierarchy
Common value condition indicates when the value for the attribute is equal for all levels of a hierarchy.

Example – “orderingLeadTime” is common across all levels of the product hierarchy; common value = Yes

Example – “grossWeight” is not common from each to case to pallet;
Common value = No
3.2 TRADE ITEM:

**Class Name:** NextLowerLevelTradeItemInformation

**Item Name:** totalQuantityOfNextLowerLevelTradeItem

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/RelationshipDependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Despatch units only
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** 6

**Definition:** This represents the Total quantity of next lower level trade items that this trade item contains.

**Examples:**

<table>
<thead>
<tr>
<th>NextLowerLevelTradeItem</th>
<th>(GTIN description)</th>
<th>QuantityofNextLowerLevel TradeItem</th>
<th>TotalQuantityofNextLowerLevelTradeItem</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTIN 1</td>
<td>Orange nail varnish</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GTIN 2</td>
<td>Purple nail varnish</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GTIN 3</td>
<td>Green nail varnish</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GTIN 4</td>
<td>Red nail varnish</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>GTIN 5</td>
<td>Grey nail varnish</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

**Business Rules:** e.g. in a mixed module, with 2 x five different types of nail varnish, this number = 10.

Where this differs from “QuantityofNextLowerLevelTradeItem” is that this field is used in conjunction with each GTIN identified in the field ‘NextLowerLevelTradeItem’. E.g. in the example of 2 x five different types of nail varnish, this number = 2.

If the item is not mixed, then this number will equal the value submitted for the “QuantityofNextLowerLevelTradeItem” field.

**Class Name:** NextLowerLevelTradeItemInformation
Item Name: quantityOfChildren

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Despatch units only
Common value to all product hierarchy: No
Type: N
Size: ..10

Definition: 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.

Examples: Ready to sell display of cosmetics contains 2 bottles each of five different colors (each with their own GTIN) of blush. The value for this field would be "5". See tables in Section 4.1 of the Implementation Considerations and Concerns.

Business Rules: Only applies to dispatch units (cases, pallets, etc.)

Class Name: ChildTradeItem

Item Name: quantityOfNextLowerLevelTradeItem

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: N
Size: 6

Definition: The number of next lower level trade item that this trade item contains.

Examples: See tables in Section 4.1 of the Implementation Considerations and Concerns.

Business Rules: This trade item may repeat if the GTIN of the lower level configuration repeats (e.g. if a combo-pack (mixed trade item) such as an assortment of crisps contains both chicken and cheese packets, the lowest level GTIN is that of each trade item in the assortment, not the GTIN of the assortment)
578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627

**Class Name:** ChildTradeItem

**Item Name:** `tradeItemIdentificationOfNextLowerLevelTradeItem` → Represented as association of `ChildTradeItem` Class to `TradeItemIdentification` Class.

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** M
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** 14

**Definition:** A reference to the GTIN of the next lower level of trade item that this trade item contains.

**Examples:** GTIN "00037000123415" contained in GTIN 00037000123330. See tables in Section 4.1 of the Implementation Considerations and Concerns for more examples.

**Business Rules:** 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.

**Class Name:** Trade Item Identification

**Item Name:** `replacedTradeItemIdentification` → represented as a role in Trade Item Diagram

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** ..14

**Definition:** Indicates the trade item identification of an item that is being permanently replaced by this trade item.
Examples: "01234567890128"

Business Rules: 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.

Class Name: TradeItemUnitIndicatorList

Item Name: tradeItemUnitDescriptor

Core/Extension: C
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: Describes the hierarchical level of the trade item. See implementation notes for full definition and rules for each value.

Examples: "CASE", "PALLET"

Business Rules: See implementation notes for complete description of each product hierarchy level. Reference TradeItemUnitDescriptorList which is an enumeration list in the Trade Item Class Diagram.

3.3 TRADE ITEM IDENTIFICATION:

Class Name: GlobalTradeItemNumber

Item Name: globalTradeItemNumber

Core/Extension: C
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Integer
Size: 14

Definition: A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (product 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.

Examples: 14 digit code. Please see PTRG directions for creating GTINs

Business Rules: 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) See to the EAN.UCC specifications. This field is mandatory within the Global Data Synchronization work process. See implementation notes.
3.4 GDSN TRADE ITEM CLASSIFICATION:

**Class Name:** ClassificationCategory

**Item Name:** additionalClassificationAgencyName

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** Dependent on additionalClassificationCategoryCode
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** 35

**Definition:** Text name of the additional external classification agency whose schema is being provided in addition to the Global EAN.UCC schema.

**Examples:**

**Business Rules:** Required if additional classification schema field are populated.

**Class Name:** ClassificationCategory

**Item Name:** additionalClassificationCategoryCode

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** ..15

**Definition:** Category code based on alternate classification schema chosen in addition to EAN.UCC classification schema.

**Examples:** "34001030"

**Business Rules:** The additional classification bundle (code/agency+descriptions) can be repeated for each classification agency used.
Class Name: ClassificationCategory

ItemName: additionalClassificationCategoryDescription

Core/Extension: E
Global Local Status: G
M/O/D: Dependent on additionalClassificationCategoryCode
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..70

Definition: Description of the additional classification bundle (code/agency + description).
Examples: "Special Breads"

Business Rules: The description of the additional classification bundle (code/agency + description) can be repeated for each classification agency used. Required if ClassificationCategoryCode field is populated.

Class Name: GDSNTradeItemClassification

Item Name: classificationCategoryCode

Core/Extension: C
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: N
Size: 8

Definition: Global EAN.UCC classification category code. Unique, permanent 8-digit key.
Examples: "10000276"

Business Rules: The system will assign Bricks on a first-approved, first-served basis. Mandatory within the Data Sync process.
Class Name: GDSNTradeItemClassification

Item Name: classificationCategoryDefinition

Core/Extension: C
Global Local Status: G
M/O/D: Dependent on classificationCategoryCode
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..700

Definition: System generated explanation of Global EAN.UCC category.

Examples: distilled alcoholic grape drink without carbonation

Business Rules: This field is mandatory when classificationCategoryCode is populated.

Class Name: GDSNTradeItemClassification

Item Name: classificationCategoryName

Core/Extension: C
Global Local Status: G
M/O/D: Dependent on classificationCategoryCode
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..105

Definition: The system generated text equivalent of the Global EAN.UCC classification category code.

Examples: wine-still

Business Rules: Being system generated, if ClassificationCategoryCode is populated, this field becomes mandatory
Class Name: GDSNTradeItemClassificationAttributeType

Item Name: eANUCCClassificationAttributeTypeCode

- **Core/Extension**: E
- **Global Local Status**: G
- **M/O/D**: O
- **Multiple Values Allowed**: Y
- **Neutral/Relationship Dependant**: T.P.Neutral
- **Product Hierarchy Reference Level**: Each
- **Common value to all product hierarchy**: No
- **Type**: N
- **Size**: 8

**Definition:** Unique 8 digit code which identifies the Global EAN.UCC classification attribute.

**Examples:** "20000212" wine-still variant

**Business Rules:** If used, the first attribute, which is the primary attribute, is mandatory. The remaining 6 are optional. This field is repeatable seven times. Mandatory in the Data Sync process.

---

Class Name: GDSNTradeItemClassificationAttributeType

Item Name: eANUCCClassificationAttributeTypeName

- **Core/Extension**: E
- **Global Local Status**: G
- **M/O/D**: O
- **Multiple Values Allowed**: Y
- **Neutral/Relationship Dependant**: T.P.Neutral
- **Product Hierarchy Reference Level**: Each
- **Common value to all product hierarchy**: No
- **Type**: AN
- **Size**: ..105

**Definition:** The system generated text equivalent of the Global EAN.UCC classification attribute code.

**Examples:** "grape variety " 20000081

**Business Rules:** Being system generated, if ClassificationAttributeTypeCode is populated, this field becomes mandatory.
Class Name: GDSNTradeItemClassificationAttributeType

Item Name: eANUCCClassificationAttributeTypeDefinition

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..700*

Definition: System generated explanation of Global EAN.UCC attribute.

Examples:

Business Rules:

*Waiting for the final publication of the EAN.UCC classification.

Class Name: GDSNTradeItemClassificationAttributeValue

Item Name: eANUCCClassificationAttributeValueCode

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: N
Size: 8

Definition: Unique 8 digit code which identifies the Global EAN.UCC classification attribute value.

Examples: See Implementation notes for full illustration.

Business Rules: One valid value may be submitted per GTIN. Once an attribute code is selected, it is mandatory to submit an associated value code.
**Class Name:** GDSNTradeItemClassificationAttributeValue

**Item Name:** eANUCCClassificationAttributeValueName

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** ..105

**Definition:** The system generated text equivalent of the Global EAN.UCC classification attribute value code.

**Examples:** See Implementation notes for full illustration.

**Business Rules:**
3.5 TRADE ITEM INFORMATION:

Class Name: Information Provider

Item Name: informationProvider

Core/Extension: C
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: PartyIdentification
Size: Not Applicable

Definition: Unique location number identifying the information owner. E.g. Distributor, broker, Manufacturer, Franchisee. This is not a third party service provider. The purpose of this field is to identify the originator of the data. Example Trade Item A - is available to retailer B from manufacturer C or distributor D. The retailer could receive information from both sellers and this field declares the information owner.

Examples: Refer to the following websites for specific directions on how to construct global location numbers - www.uc-council.org or www.ean-int.org

Business Rules: 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. See implementation notes.

Class Name: InformationProvider

Item Name: nameOfInformationProvider

Core/Extension: E
Global Local Status: G
M/O/D: Dependent on informationProvider
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: AN
Size: .35

Definition: Name of the party who owns the data. Name of the information provider on the trade item.
Examples: Names of suppliers, wholesalers, manufacturers, distributors, or retailers

Business Rules: Mandatory when Information Provider is provided.

Class Name: TargetMarketInformation

Item Name: targetMarketCountryCode

Core/Extension: C
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: N
Size: 3

Definition: The target market code indicates the country level or higher geographical definition in which the information provider will make the GTIN available to buyers. This Indicator does not in any way govern where the buyer may re-sell the GTIN to consumers.

Examples: “036”=Australia, “300” = Greece, “524”= Nepal

Business Rules: 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. See implementation notes.

Class Name: TargetMarketInformation

Item Name: targetMarketDescription

Core/Extension: C
Global Local Status: G
M/O/D: D
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Short Description
Size: 35

Definition: The name for the specific target market identified with the Target Market Country Code. Target market description is composed of
both text and a language code. The description will be generated from the ISO 3166-1 code list. The language code will be generated from the ISO 639 code list.

**Examples:** ISO 3166-1 840= "United States", 276= "Federal Republic of Germany", 156 = "China"

**Business Rules:** This is the textual indication of the target market code. See Section 4.4 of Implementation Considerations and Concerns for more details.

**Class Name:** TargetMarketInformation

**Item Name:** targetMarketSubdivisionCode

**Core/Extension:** C  
**Global Local Status:** G  
**M/O/D:** D  
**Multiple Values Allowed:** Y  
**Neutral/Relationship Dependant:** T.P.Neutral  
**Product Hierarchy Reference Level:** All  
**Common value to all product hierarchy:** Yes  
**Type:** AN  
**Size:** 7  
**Definition:** The Target Market Subdivision Code is the secondary code of the Target Market and must be a subdivision of a Target Market Country Code. The Target Market Subdivision Code describes the "geo-political subdivision of a country" where the trade item is available for sale, as determined by the information provider. For example, "State" in the US, "Land" in Germany, "Region" in France, or "Province" in Canada. Not all countries have subdivisions. This code is represented by the three-character ISO 3166-2 code. This Target Market Subdivision Code is a dependent attribute. It is important to note that the lack of the Target Market Subdivision code implies that the trade item is available in the entire target market country.

**Examples:**  
"208-025" where "208" represents Denmark from the ISO 3166-1 and 025 represents the Danish county of Roskilde from the ISO 3166-2.  
"554-BOP" where "554" represents New Zealand from the ISO 3166-1 and "BOP" represents the Bay of Plenty.

**Business Rules:** 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.

**Class Name:** TradeItemDescriptionInformation

**Item Name:** additionalTradeItemDescription

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Consumer Unit
- **Common value to all product hierarchy:** No
- **Type:** LongTextDescription
- **Size:** ..350

**Definition:** Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Color, and Fragrance.

**Examples:**

**Business Rules:** 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 from the attached table. See Section 4.4 of Implementation Considerations and Concerns for more details.

**Class Name:** TradeItemDescriptionInformation

**Item Name:** brandName

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** .. 35

**Definition:** The recognizable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer. See examples.

**Examples:** ACME
Business Rules: 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.

Class Name: TradeItemDescriptionInformation

Item Name: descriptionShort

Core/Extension: E  
Global Local Status: G  
M/O/D: O  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Neutral  
Product Hierarchy Reference Level: Each  
Common value to all product hierarchy: No  
Type: Multi-Short Description  
Size: 35

Definition: A free form short length description of the trade item that can be used to identify the trade item at point of sale.

Examples: Kel CrnF750g.

Business Rules: Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details.

Class Name: TradeItemDescriptionInformation

Item Name: functionalName

Core/Extension: E  
Global Local Status: G  
M/O/D: M  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Neutral  
Product Hierarchy Reference Level: All  
Common value to all product hierarchy: Yes  
Type: Multi-Short Description  
Size: ..35

Definition: Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN.

Examples: drill, salad dressing, soup, beer.
**Business Rules:** Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details.

**Class Name:** TradeItemDescriptionInformation

**Item Name:** invoiceName

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Multi Short Description
- **Size:** ..35

**Definition:** Free form information provider assigned trade item description designed to match trade item/service description as noted on invoices.

**Examples:**

**Business Rules:** Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details. Most likely will include several abbreviations.

**Class Name:** TradeItemDescriptionInformation

**Item Name:** linkToExternalDescription

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** ..70

**Definition:** The link (e.g. URL) to the external description.

**Examples:**
Business Rules:

Class Name: TradeItemDescriptionInformation

Item Name: tradeItemDescription

Core/Extension: C
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: LongText Description
Size: ..143

Definition*: The concatenated product description of a product or service. See business rules.

Examples*: When a supplier sends all information in maximum size the retailer will get for example following information:
YummyCola_________________________Yummy_________________Drink______________________________Big Size

For automatic use of this information, e.g. on a tag, a separator should be given between all elements. E.g: Yummy-Cola; Yummy; Drink; Big Size.

Business Rules*: This field is automatically generated by the concatenation of the "brand"," sub-brand", "functional name" and "variant". Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code . See implementation notes for more details.

* This is a derived attribute resulting from the concatenation of 4 other attributes of up to 35 characters each (see Business Rules above). When implemented, these four attributes may be concatenated as appropriate. Item description is part of the set of core data that will be stored in the Registry.

Class Name: TradeItemDescriptionInformation

Item Name: productRange

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..35

Definition: A name, used by a BrandOwner, that span multiple consumer categories or uses. E.g. (Waist Watchers)

Examples: The waist watcher product range includes salad dressings, receipt books, kitchen utensils, etc.

Business Rules: Text field

Class Name: TradeItemDescriptionInformation

Item Name: subBrand

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: AN
Size: ..35

Definition: 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.

Examples:

Business Rules: Text field

Class Name: TradeItemDescriptionInformation

Item Name: tradeItemFormDescription

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..35
Definition: 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.

Examples: "tablet", "powder", "gel", "shredded", "liquid", "granules"

Business Rules: Optional field that can be used to further describe a trade item’s benefit delivery method. Free form text. (See examples)

Class Name: TradeItemDescriptionInformation

Item Name: tradeItemGroupIdentificationCode

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..20

Definition: A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.

Examples: Code representing a group of GTINs for all 501 Blue Jeans sizes and colors
123=
GTIN1 501 Blue/38
GTIN2 501 Blue/40
GTIN3 501 Black/38
GTIN4 501 Black/40

Business Rules: Manufacturer assigned. This code is typically assigned to multiple GTINs.

Class Name: TradeItemDescriptionInformation

Item Name: tradeItemGroupIdentificationDescription

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Short Description
Size: ..35

Definition: The text description of the value represented by the trade itemGroupIDCode

Examples: "501 Blue Jeans", represent all sized and colors of this trade item

Business Rules: 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".

Class Name: TradeItemDescriptionInformation

Item Name: variant

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Short Description
Size: ..35

Definition: Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste.

Examples: Examples: Bananna, Strawberry, Lemon Scented.

Business Rules: This is different from the Global EAN.UCC 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 from the attached table. See Section 4.4 of the Implementation Considerations and Concerns for more details.
3.6 TRADING PARTNER NEUTRAL TRADE ITEM INFORMATION:

**Class Name:** TradingPartnerNeutralTradeItemInformation

**Item Name:** barCodeType

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Enumerated List
- **Size:** Not Applicable

**Definition:** The type of bar code or codes, which are visible on a trade item.

**Examples:** RSS Expanded Stacked

**Business Rules:** Multiple values allowed. Use enumerated BarCode Type List in Trading Partner Neutral Trade Item Information Class Diagram

**Class Name:** TradingPartnerNeutralTradeItemInformation

**Item Name:** .classComplianceRegulationCode

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Enumerated List
- **Size:** Not Applicable

**Definition:** 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.

**Examples:** Compliant With Flammability Act

**Business Rules:**


**Class Name:** TradingPartnerNeutralTradeItemInformation

**Item Name:** tradeItemCountryOfAssembly

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** 3

**Definition:** Country where product is assembled. Uses ISO country codes.

**Examples:** "Canada, United States"

**Business Rules:**

**Class Name:** TradingPartnerNeutralTradeItemInformation

**Item Name:** tradeItemCountryOfOrigin

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** M
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** 3

**Definition:** The country code (codes) in which the goods have been produced or manufactured, according to criteria established for the purposes of application of the value may or may not be presented on the trade item label.

**Examples:** Canada, United States

**Business Rules:** 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.
**Class Name:** BrandOwnerOfTradeItem

**Item Name:** brandOwner  - represented by relation to Party Identification

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** Yes
- **Type:** PartyIdentification
- **Size:** ..Not Applicable

**Definition:** 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.

**Examples:** GLN, DUNS_PLUS_FOUR

**Business Rules:** 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.

**Class Name:** BrandOwnerOfTradeItem

**Item Name:** nameOfBrandOwner

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** Yes
- **Type:** AN
- **Size:** ..35

**Definition:** Name of the party who owns the brand of the trade item.

**Examples:** Manufacturer of branded trade item - Can also be distributor or retailer that licenses a brand name to various private label manufacturers.
Business Rules: Mandatory when brandOwner Party identification is provided.

Class Name: HazardousInformationDetail

Item Name: classOfDangerousGoods

Core/Extension: E  
Global Local Status: G  
M/O/D: D
Multiple Values Allowed: Y  
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN  
Size: 4

Definition: 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.

Examples: Class “4.2”: Substances liable to spontaneous combustion. Class “6.1”: Toxic substances

Business Rules: Information required when dangerousGoodsIndicator equals Y. Subsidiary risks given by repeating attribute value. Repeatable per dangerousGoodsRegulation code. Refer to UNECE code list. Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

Class Name: HazardousInformationDetail

Item Name: dangerousGoodsAMarginNumber

Core/Extension: E  
Global Local Status: L  
M/O/D: D
Multiple Values Allowed: Y  
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN  
Size: ..30

Definition: 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.

Examples: "not possible"

Business Rules: Information required when dangerousGoodsIndicator
equals Y.
Repeatable per dangerousGoodsRegulation code.
List of authorized values :
- not possible
- possible (but not used)
- used (by the data supplier)
Hazardous attributes relate to supply chain handling (e.g., transport,
storage, handling).

Class Name: HazardousInformationDetail

Item Name: dangerousGoodsHazardousCode

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: 10

Definition: 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.

Examples: -

Business Rules: Information required when dangerousGoodsIndicator
equals Y. Repeatable per dangerousGoodsRegulation code. Hazardous
attributes relate to supply chain handling (e.g., transport, storage,
handling).
Class Name: HazardousInformationDetail

Item Name: dangerousGoodsPackingGroup

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: 3

Definition: Identifies the degree of risk these dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.

Examples: Group I : Great danger - Packaging meeting criteria to pack hazardous materials with great danger.

Business Rules: Information required when dangerousGoodsRegulationCode is populated. Repeatable per dangerousGoodsRegulation code.

http://www.unece.org/trade/undid/d99b/tred/tred8339.htm

Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

Class Name: HazardousInformationDetail

Item Name: dangerousGoodsShippingName

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: ..200

Definition: 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.

Examples: "Flammable Liquid"
Business Rules: Information required when dangerousGoodsRegulationCode is populated. Repeatable per dangerousGoodsRegulation code. Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

Class Name: HazardousInformationDetail

Item Name: dangerousGoodsTechnicalName

Definition: Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 list.

Examples: "TRINITROCHLORO-BENZENE (PICRYL CHLORIDE), WETTED"

Business Rules: Information required when dangerousGoodsRegulationCode is populated. The technical names are listed in the order that they contribute to the danger (main hazard, not necessarily the highest concentration). Repeatable per dangerousGoodsRegulation code. Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

See Section 4.4 of Implementation Considerations and Concerns for more details.

Class Name: HazardousInformationDetail

Item Name: unitedNationsDangerousGoodsNumber

Definition: Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). This is composed of both text and a language code. The language for text is specified using the two-digit ISO 639 list.

Examples: "TRINITROCHLORO-BENZENE (PICRYL CHLORIDE), WETTED"

Business Rules: Information required when dangerousGoodsRegulationCode is populated. The technical names are listed in the order that they contribute to the danger (main hazard, not necessarily the highest concentration). Repeatable per dangerousGoodsRegulation code. Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

See Section 4.4 of Implementation Considerations and Concerns for more details.
Type: N
Size: 4

**Definition:** 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 group of substances. Abbreviation: UNDG Number

**Examples:** UN "1155" ETHYLENEGLYCOLDIETHYLEETHER

**Business Rules:** Information required when dangerousGoodsRegulationcode is populated. Repeatable per dangerousGoodsRegulation code.

http://www.unece.org/trans/danger/publi/adr/adr2001/English/

Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).
Class Name: ManufacturerOfTradeItem

Item Name: manufacturer- represented by relationship to Party Identification

Core/Extension: E  
Global Local Status: G  
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: PartyIdentification
Size: Not Applicable.

Definition: GLN identifying the manufacturer of a trade item. May or may not be the brand owner, could be a contract manufacturer. GLN identifying manufacturer of a trade item: this is repeatable field.

Examples: Brand owner A uses contract manufacturers B and C to produce trade item D. This field would provide a GLN for manufacturers B and or C.

Business Rules: While the class ManufacturerOfTradeItem is optional, the party identification for the manufacturer is required when the manufacturer of trade item is populated.

Class Name: ManufacturerOfTradeItem

Item Name: nameOfManufacturer

Core/Extension: E  
Global Local Status: G  
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: AN
Size: ..35

Definition: Descriptive name of the manufacturer of the trade item.

Examples:

Business Rules: 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. This is a repeatable field.
**Class Name:** MarketingInformation

**Item Name:** campaignName

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<tr>
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<tr>
<td>Product Hierarchy Reference Level: All</td>
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</tr>
<tr>
<td>Type: Description</td>
<td></td>
</tr>
<tr>
<td>Size: ..70</td>
<td></td>
</tr>
</tbody>
</table>

**Definition:** 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. Used to specify promotions, marketing.

**Examples:** Home Fashion theme such as 'Alexandra' or an Apparel theme such as '501 Blue'.

**Business Rules:**

---

**Class Name:** MarketingInformation

**Item Name:** campaignStartDate

<table>
<thead>
<tr>
<th>Core/Extension: E</th>
<th>Global Local Status: G</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/O/D: O</td>
<td></td>
</tr>
<tr>
<td>Multiple Values Allowed: N</td>
<td></td>
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<tr>
<td>Neutral/Relationship Dependant: T.P.Neutral</td>
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<tr>
<td>Product Hierarchy Reference Level: All</td>
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<td>Common value to all product hierarchy: Yes</td>
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<tr>
<td>Size: CCYY-MM-DD</td>
<td></td>
</tr>
</tbody>
</table>

**Definition:** The date suggested by the supplier for the campaign to start. It indicates the beginning of a marketing campaign.

**Examples:** 2005-02-01.

**Business Rules:**

---

**Class Name:** MarketingInformation

**Item Name:** campaignEndDate

**Business Rules:**
Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Date
Size: CCYY-MM-DD

Definition: The date suggested by the supplier for the campaign to end. It indicates the end of a marketing campaign.

Examples: 2005-05-01

Business Rules:

Class Name: MarketingInformation
Item Name: specialItemCode

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Enumerated List
Size: Not Applicable

Definition: This element identifies specific items for promotional or special tracking purposes. For example Dynamic Assortment: Chia Pets are sold individually to the consumer and each different Chia Pet is marked with a unique GTIN. The items are ordered by the case, which has its own unique GTIN. The case will contain a random assortment of Chia Pets. There is no guarantee that the same ratio of child items will be in a case from order to order but the total quantity of items in the case will remain the same.

A collateral item is a trade item delivered from a manufacturer to the retail selling floor that is not considered inventory and has no retail value.

A Gift with Purchase (GWP) is a trade item given to a consumer as part of a promotional event, contingent on the consumer making a purchase of another item or items. A Gift with Purchase is considered inventory and has no retail value.
A Purchase with Purchase (PWP) is a trade item sold to a consumer at a special price as part of a promotional event, contingent on the consumer purchasing another item or items. A Purchase with Purchase is considered inventory and has a retail value.

A Dynamic Assortment is when the quantity of the case remains fixed, however the mix of the lower level GTINs may vary from case to case. If Next Lower Level Trade Item Information is specified the actual quantity of each child item may be different from pack to pack. The pack may even contain only one of the child items, however the pack will always contain the number of items specified in the totalQuantityOfNextLowerLevelTradeItem.

If Next Lower Level Trade Item Information is specified the actual quantity of each child item may be different from pack to pack. The pack may even contain only one of the child items, however the pack will always contain the number of items specified in the totalQuantityOfNextLowerLevelTradeItem.

Examples:

**Business Rules:** Dynamic Assortment may only be specified when the tradeItemUnitDescriptor specifies PREPACK.

**Class Name:** MarketingInformation

**Item Name:** tradeItemFeatureBenefit:

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** Yes
- **Type:** Description
- **Size:** 70

**Definition:** Element for consumer facing marketing content to describe the key features or benefits of the style suitable for display purposes. Needed for marketing to enable product comparison.

**Examples:** 'pre-shrunk'.

**Business Rules:**
1997
1998 Class Name: MarketingInformation
1999
2000 Item Name: tradeItemMarketingMessage
2001
2002 Core/Extension: E
2003 Global Local Status: G
2004 M/O/D: O
2005 Multiple Values Allowed: N
2006 Neutral/Relationship Dependant: T.P.Neutral
2007 Product Hierarchy Reference Level: All
2008 Common value to all product hierarchy: Yes
2009 Type: Long Description
2010 Size: 1000
2011
2012 Definition: Marketing message associated to the Trade item.
2013
2014 Examples: 'Quality in Style'.
2015
2016
2017 Business Rules:
2018
2019 Class Name: MaterialComposition
2020
2021 Item Name: materialCode
2022
2023 Core/Extension: E
2024 Global Local Status: G
2025 M/O/D: O
2026 Multiple Values Allowed: N
2027 Neutral/Relationship Dependant: T.P.Neutral
2028 Product Hierarchy Reference Level: All
2029 Common value to all product hierarchy: Yes
2030 Type: Multi Description
2031 Size: 70
2032
2033 Definition: This element indicates the product material code that gives
2034 the composition of the trade item's first main material up to six material
2035 short codes that can be given in descending order of their respective
2036 percentages. This element may be used to specify agency code or
2037 country specific code used to indicate materials that the trade item
2038 consists of.
2039
2040 Examples: CO Cotton; PE Polyethylene; PA Polyamide.
2041
2042 Business Rules: materialCode and materialAgencyCode are paired
2043 elements; if one is used, the other must be present. These fields are
2044 used in conjunction with the percentage. materialCode should match the
2045 value of materialContent if both are populated.
Class Name: MaterialComposition

Item Name: materialAgencyCode:

  Core/Extension: E
  Global Local Status: G
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: Yes
  Type: Enumerated List
  Size: Not Applicable

Definition: This element indicates the agency that is maintaining the Trade Item Material codes. This may include a specific code list. Reference "DIN 60001, Part 4 - Textile Fibers Codes. Available from DIN Deutsches Institut für Normung E.V (German Institute for Standardization E.V).

Examples:

Business Rules: materialCode and materialAgencyCode are paired elements; if one is used the other must be present. These fields are used in conjunction with the percentage.

Class Name: MaterialComposition

Item Name: materialPercentage:

  Core/Extension: E
  Global Local Status: G
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: Yes
  Type: Percentage
  Size: 3.2

Definition: Net weight percentage of a product material of the first main material. The percentages must add up to 100.

Example: CO Cotton 50%; PE Polyethylene 40%; PA Polyamide 10%.

Business Rules: This field can be used in conjunction with the fields 'materialCode' or 'materialContent'
Class Name: MaterialComposition

Item Name: materialContent

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: Yes
- Type: Description
- Size: 70

Definition: This element is used to indicate the material composition. This element is used in conjunction with materialPercentage.

Example: cotton and acetate. It describes the composition of each material (e.g., plastic, rubber) contained in the trade item.

Business Rules: materialContent should match the value of materialCode if both are populated.

Class Name: MaterialSafetyData

Item Name: materialSafetyDataSheetNumber

- Core/Extension: E
- Global Local Status: G
- M/O/D: Dependent on MaterialSafetyData
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: AN
- Size: ..20

Definition: Manufacturer's identification number for the material safety data sheet for a trade item.

Examples: "4711", "ag34784", "zruifk"

Business Rules: 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”.
Class Name: MaterialSafetyData

Item Name: materialSafetyDataSheet—this boolean question is answered by the population of materialSafetyDataSheetNumber. It is thus not represented in the model and the schemas.

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: 1

Definition: Indicates whether there exists a material safety data sheet for the trade item. This is a data sheet with the most important characteristics, protected measures and regulations to be adhered to when handling this trade item. It is relevant above all for dangerous substances.

Example:

Business Rules:

Class Name: NonPackageTradeItemDimension

Item Name: sizeGroup

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Enumerated List
Size: Not Applicable

Definition: 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.

Example: The size group would be Petite and the size would be “8”.

Business Rules:
Class Name: NonPackageTradeItemDimension

Item Name: sizeSystem

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Enumerated List
Size: Not Applicable

Definition: 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.

Example: A shoe that is 10 inches or 25.4 centimeters could be specified without using this attribute, however, the same 10 inch shoe is a men size 7 1/2 in U.S., women size 9 in the U.S., men size 7 in the U.K., 40 in Europe (no distinction between men and women), women size 25 in Japan, and size 6 in Mexico. This will allow for the size dimensions to be specified in using different size systems.

Business Rules:

Class Name: NonPackageTradeItemDimension

Item Name: sizeType:

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Enumerated List
Size: Not Applicable

Definition: The type of size dimension being specified by the size measurement

Example: The size type would be Back and the size would be 34”.

Business Rules:
Class Name: NonPackageTradeItemDimension

Item Name: sizeDimension

  Core/Extension: E
  Global Local Status: G
  M/O/D: M
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: Yes
  Type: Measurement
  Size: Decimal 15, String 3 for Unit Of Measure

Definition: The numerical size measurement of the size dimension specified by the size type.

Example: The size type would be Back and the size would be 34 inches.

Business Rules: 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).

Class Name: NonPackageTradeItemDimension

Item Name: descriptiveSizeDimension

  Core/Extension: E
  Global Local Status: G
  M/O/D: M
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: Yes
  Type: Description
  Size: 70

Definition: The textual representation of the size dimension specified by the size type.

Example: The size type would be Sleeve and the size would be “32/33 inches”.

Business Rules: Either sizeDimension or descriptiveSizeDimension must be present, but not both. descriptiveSizeDimension is a description and is part of a mandatory choice (the other choice value being sizeDimension).
Class Name: Ordering And Selling Unit Of Measure

Item Name: orderingUnitOfMeasure

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: String
Size: 70

Definition: 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.

Example: A Spool of wire ordered by the spool and sold by lineal foot; Lumber ordered by board footage and sold by piece.

Business Rules: EAN.UCC standards reference the UN/CEFACT Recommendation 20 list for the possible Unit of Measure. orderingUnitOfMeasure is a string and is optional.

Class Name: Ordering And Selling Unit Of Measure

Item Name: sellingUnitOfMeasure

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: String
Size: 70

Definition: 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.

Example: Each, pair, case, roll, set box, by the foot, by the sheet. The Retailers require this if the Item is marked as a Consumer Unit. Only values from the enumerated list can be chosen from the UN/CEFACT.

Business Rules:
**Business Requirements Document**

**DATA SYNCHRONIZATION DATA MODEL**

**FOR TRADE ITEM**

**(DATA DEFINITION)**

**Class Name:** OrganicTradeItemCharacteristics

**Item Name:** organicClaimAgency

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** ..35

**Definition:** A governing body that creates and maintain standards related to organic products. Rules: only registered values may be used. See implementation section 4.8 for reference to code list. It's a repeatable field.

**Examples:**

**Business Rules:**

**ClassName:** OrganicTradeItemCharacteristics

**Item Name:** organicTradeItemCode

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** ..35

**Definition:** Used to indicate the organic status of a trade item or of one or more of its components.

**Examples:** See code list

**Business Rules:** Approved values are:

- 01 100% organic
- 02 Organic
- 03 Made with Organic Ingredients
- 04 Some Organic Ingredients
- 05 Not Organic
- 06 Unknown
Class Name: PackagingMarking

Item Name: isBarcodeOnThePackage- this boolean question is answered by the population of Bar Code Type. It is thus not represented in the model and the schemas.

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: Indication if the trade item is physically bar-coded with the primary trade item identification number. This is a y/n (Boolean) where Y equals trade item is bar-coded.

Examples:

Business Rules: Boolean Y/N; Y= bar-coded  N= not bar-coded
Technical Note: This Boolean question is answered by the application of class “Bar Code Type List”. If the Bar Code Type List class (telling which barcodes are on the package) exists, then there is a barcode on the package. The attribute is derived from the Bar Code Type List and is not in the model.

Class Name: PackagingMarking

Item Name: isPackagingMarkedReturnable

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: trade item has returnable packaging. This is a yes/no (Boolean) where yes equals package can be returned.

Examples:
Business Rules: Boolean Y/N; Y= marked returnable, N= not returnable. Attribute applies to returnable packaging with or without deposit.

Class Name: PackagingMarking

Item Name: isPackagingMarkedWithIngredients

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: 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.

Examples:

Business Rules: 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.

Class Name: PackagingMarking

Item Name: OfferOnPack

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: String
Size: 70

Definition: Contains details of any on pack product offer (consumer or traded).
Examples: Extra 20 percent free, free gift.

Business Rules: 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.

Class Name: PackagingMarking

Item Name: packageMarksDietAllergen

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: Indication of which dietary or allergen marks that are on the package.

Business Rules:

Class Name: PackagingMarking

Item Name: packageMarksEnvironment:

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: Indication of which environmental marks (e.g. recycling schemes) that are on trade item package. This attribute is an enumerated list and is optional.

Business Rules:
Class Name: PackagingMarking

Item Name: packageMarksEthical:

- Core/Extension: E
- Global Local Status: L
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: Enumerated List
- Size: Not Applicable

Definition: Indication of which ethical trading marks that are on the package.

Business Rules:

Class Name: PackagingMarking

Item Name: packageMarksFreeFrom

- Core/Extension: E
- Global Local Status: L
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: Enumerated List
- Size: Not Applicable

Definition: Indication of which free-from marks that are on the package. This attribute is and enumerated list and is optional.

Class Name: PackagingMarking

Item Name: packagingMarkedExpirationDateType

- Core/Extension: E
- Global Local Status: L
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: Enumerated List
Definition: Indicates the type of expiration date marked on the packaging.

Business Rules:

Class Name: PackagingMarking

Item Name: packagingMarkedRecyclableScheme

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: 70

Definition: The package of this GTIN is marked to indicate under which scheme it is recyclable. Applies to recyclable packaging with or without deposit.

Examples: Aluminum can be marked as recyclable.

Business Rules:
**Class Name:** PackagingMaterial

**Item Name:** depositValueEffectiveDate

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYYMMDD

**Definition:** First date that the deposit value is valid for the deposit code.

**Examples:**

**Business Rules:**

---

**Class Name:** PackagingMaterial

**Item Name:** depositValueEndDate

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYYMMDD

**Definition:** Last date that the deposit value in the currency is valid for the deposit code.

**Examples:**

**Business Rules:**
Class Name: PackagingMaterial

Item Name: packagingMaterialCode

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: AN
- Size: ..3

Definition: Code source needs to be defined. Currently a European Union table of code lists exists for this requirement. The code list required to identify the packaging material of the trade item.

Examples: "GL" (glass) "AL" (Aluminum)

Business Rules: Can be repeated for multi-material packaging and linked to packaging weight.

Class Name: PackagingMaterial

Item Name: packagingMaterialCodeListMaintenanceAgency

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: D
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: AN
- Size: ..35

Definition: Agency needs to be defined. The agency or agencies controlling the packaging code lists of each country. Mandatory if packaging material code is populated.

Examples:

Business Rules: Dependent on field packagingMaterialCode
Class Name: PackagingMaterial

Item Name: packagingMaterialCompositionQuantity

Core/Extension: E
Global Local Status: G/L
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi-Measurement
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The quantity of the packaging of the trade item. Can be weight, volume or surface, can vary by country.

Examples: "15 grm", Value, amount, eaches, etc.

Business Rules: Can be repeated for multi-material packaging and must be associated with a valid ISO language code from the attached table. Has to be associated with valid UOM. See Section 4.6 of the Implementation Considerations and Concerns for more details.

Class Name: PackagingMaterial

Item Name: packagingMaterialDescription

Core/Extension: E
Global Local Status: G/L
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi Short Description
Size: 35

Definition: The system generated text description equivalent of the packaging material code.

Examples: "Glass" "Aluminum"

Business Rules: 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 from the attached table. Dependent on the field
packagingMaterialCode See Section 4.4 of the Implementation Considerations and Concerns for more detail.

Class Name: PackagingMaterial

Item Name: packagingTermsAndConditions

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: 3

Definition: Indicates if the packaging given in the described packaging configuration is a rented, exchangeable, against deposit or one way/not reusable.

Examples: Codes to be defined. See Section 4.8

Business Rules: List of authorized values based on EANCOM 7073, X12 DE102 and X12 DE399.

Class Name: PackagingMaterial

Item Name: returnablePackageDepositAmount

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Float
Size: Not Applicable

Definition: The monetary amount for the individual returnable package..

Examples:

Business Rules:
Class Name: PackagingMaterial

Item Name: returnablePackageDepositCode

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: 14

Definition: 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.

Examples:

Business Rules:

Class Name: PackagingType

Item Name: packagingTypeCode

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Char
Size: 3

Definition: The code identifying the type of package used as a container of the trade item.

Examples: Codes to be defined. See code list for possible values (packagingTypeDescription).

Business Rules: List of authorized code values based on UN-ECE 21 Recommendations. Code list can be found in Implementatio Section 4.8. Can be repeated.
Item Name: packagingTypeDescription

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** AN
  - **Size:** ..35

**Definition:** System generated text description of the type of packaging used for the trade item. For example, box or carton.

**Examples:** "Box", "Bottle"

**Business Rules:** List of authorized text description values based on UN-ECE 21 Recommendations - EANCOM 7065. Can be repeated. System generated field.

Class Name: PegMeasurements (child class of TradeItemMeasurements)

Item Name: pegHoleNumber

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** N
- **Size:** Unbounded

**Definition:** 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. The peg holes should be identified from left to right, top to bottom with left to right having precedence. The number of peg holes and their measurements must be determined following the orientation of the product. Product orientation is based upon the General EAN.UCC Specification. Required if the trade item is displayed on a peg board.

**Examples:** 1
Business Rules: Required if the item has a peg hole. Multiple peg holes are allowed per product.

Class Name: PegMeasurements (child class of TradeItemMeasurements)

Item Name: pegHorizontal

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi-Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: Used to indicate the horizontal distance from the edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard.

Examples: "2 INH"

Business Rules: Required if the trade item is displayed on a peg board. Has to be associated with a valid UOM.

Class Name: PegMeasurements (child class of TradeItemMeasurements)

Item Name: pegVertical

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi-Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: Used to indicate the vertical distance from the edge of the trade item to the center of the hole into which the peg is inserted when the trade item is displayed on a pegboard. The hole into which the peg is inserted when the trade item is displayed on a pegboard. The measurement is always taken from the top edge of the trade item to the hole.
Examples: "2 INH"

**Business Rules:** Required if the trade item is displayed on a peg board.
Has to be associated with a valid UOM.

**Class Name:** PriceOnTradeItem

**Item Name:** priceOnPackIndicator → this boolean question is answered by populating retailPriceOnTradeItem.

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** 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. This is a y/n (Boolean) where y equals pricing on the trade item.

**Examples:** -

**Business Rules:** Boolean Y/N where Y = there is a retail price on the trade item; N = not pre-priced

**Class Name:** PriceOnTradeItem

**Item Name:** retailPriceOnTradeItem

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Amount
- **Size:** 17.4

**Definition:** The retail price as marked on the trade item package. This field is dependent on a value of "yes" for field priceOnPackIndicator.

**Examples:** "USD 1.00", "EUR 36", "USD 17.45"
Business Rules: As monetary amount field, this data element must be associated with a valid unit of measure. See implementation notes for complete table. 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. Becomes mandatory when priceOnPackIndicator = "Y". In this case, the priceOnPack becomes Global (can not vary per Target Market). See Section 4.5 of Implementation Considerations and Concerns for more details.

Class Name: PrivateInformation

Item Name: isTradeItemInformationPrivate → this boolean question is answered by populating partyReceivingPrivateData.

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Boolean
Size: Not Applicable

Definition: Indicator to qualify whether master data is publicly available to any inquirer or is restricted to specific private user. This is a y/n (Boolean) where y equals non-public. If yes, then must have associated PARTY ID for whom the information is intended.

Examples: Consumer unit A is public. Display configuration B, which contains public consumer unit A, is marked non-public, as it was built for retailer C. Pallet GTIN D, which is made up of Display B, is also marked non-public, only available to retailer C.

Business Rules: Trade item hierarchy level impact - if GTIN is marked non-public, all higher trade item hierarchy levels are non-public. Lower trade item hierarchy levels can still be public. This Boolean question is answered by application of class Private Information.
**Class Name:** PrivateInformation

**Item Name:** partyReceivingPrivateData – represented by relationship to Party Identification.

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Dependent
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** Yes*
- **Type:** PartyIdentification
- **Size:** Not Applicable

**Definition:** Unique location number identifying the party who is allowed access to the information by the data owner.

**Examples:** Refer to the following websites for specific directions on how to construct global location numbers - [www.uc-council.org](http://www.uc-council.org) or [www.ean-int.org](http://www.ean-int.org)

**Business Rules:** 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.

---

**Class Name:** Season

**Item Name:** seasonalAvailabilityEndDate

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYYMMDD

**Definition:** This element indicates the end date of the trade item's seasonal availability. The seasonal availability can be different from the
ordering time and especially from the dispatching time. The availability is
more like an intention of the supplier as to how long he wants to offer the
product. The dispatching time is more useful for the DC and the outlet
warehousing.

Examples:

Business Rules:

Class Name: Season

Item Name: seasonalAvailabilityStartDate

<table>
<thead>
<tr>
<th>Core/Extension</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Local Status</td>
<td>L</td>
</tr>
<tr>
<td>M/O/D</td>
<td>O</td>
</tr>
<tr>
<td>Multiple Values Allowed</td>
<td>N</td>
</tr>
<tr>
<td>Neutral/Relationship Dependant</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>Product Hierarchy Reference Level</td>
<td>Each</td>
</tr>
<tr>
<td>Common value to all product hierarchy</td>
<td>No</td>
</tr>
<tr>
<td>Type</td>
<td>Date</td>
</tr>
<tr>
<td>Size</td>
<td>CCYYMMDD</td>
</tr>
</tbody>
</table>

Definition: This element indicates the start date of the trade item's
seasonal availability. Reference related attribute in Item document.

European Requirement. The seasonal availability can be different from
the ordering time and especially from the dispatching time. The
availability is more like an intention of the supplier as to how long he
wants to offer the product. The dispatching time is more useful for the DC
and the outlet warehousing.

Examples:

Business Rules:

Class Name: Season

Item Name: seasonCalendarYear:

<table>
<thead>
<tr>
<th>Core/Extension</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Local Status</td>
<td>L</td>
</tr>
<tr>
<td>M/O/D</td>
<td>O</td>
</tr>
<tr>
<td>Multiple Values Allowed</td>
<td>Y</td>
</tr>
<tr>
<td>Neutral/Relationship Dependant</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>Product Hierarchy Reference Level</td>
<td>Each</td>
</tr>
<tr>
<td>Common value to all product hierarchy</td>
<td>No</td>
</tr>
<tr>
<td>Type</td>
<td>Year</td>
</tr>
<tr>
<td>Size</td>
<td>CCYY</td>
</tr>
</tbody>
</table>
Definition: This element indicates the calendar year in which the trade item is seasonally available. This item is seasonally available in the year “2002”. European Requirement. This element applies to cases where the supplier has items in many different seasons or if multiple calendar years were involved. This attribute might be considered as an implementation attribute that could be done in different manners in the GDSN and in the one-to-one environment. Can be used for merchandising.

Examples:

Business Rules:

Class Name: Season

Item Name: seasonParameter:

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: 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. It is repeatable if more than one season is indicated: Spring, Summer, Autumn, Winter, and All year (available throughout the year). The seasonal parameter is more an information for the search of data.

Examples:

Business Rules:

Class Name: Season

Item Name: seasonName:

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
**Type:** Description

**Size:** 70

**Definition:** This element defines the season applicable to the item.

**Example:** Holiday, back to school, Summer, Winter, etc. Special advertising actions, Winter end-of-season sales (WSV) or summer end-of-season sales (SSV).

**Business Rules:** 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.

**Examples:**

**Business Rules:**

**Class Name:** SecurityTagInformation

**Item Name:** securityTagType:

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Enumerated List
- **Size:** Not Applicable

**Definition:** This is a code to indicate the type of EAS tag located on the Trade Item.

**Examples:** Values include Acousto-Magnetic, Electro-Magnetic, Ink or dye, Microwave, Radio Frequency.

**Business Rules:** Used on Consumer Units only.

**Class Name:** SecurityTagInformation

**Item Name:** securityTagLocation:

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: This is a code to indicate where the EAS tag is located on the Trade Item.

Example: Values include On outside of Trade Item, Concealed inside Trade Item, Integrated Inside Trade Item.

Business Rules: Used on Consumer Units only.

Class Name: TargetConsumer

Item Name: targetConsumerAge:

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Description
Size: 70

Definition: Identifies the target consumer age range for which a trade item has been designed.

Example: 0-6 months, 2-4 years, and juniors. The field format allows including a number (6), a number range (0-6 months, 2-4 years) or a category such as infants, teens, etc. target

Business Rules:

Class Name: TargetConsumer

Item Name: targetConsumerGender:

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Enumerated List
Definition: Identifies the target consumer gender for which a product has been designed.

Example: male, female, unisex (suitable to both genders).

Business Rules:

Class Name: TradeItemColorDescription

Item Name: colorCodeListAgency

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependent: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..3

Definition: The parties controlling the color code lists. Dependent on color code value.

Examples: "PMS", "RAL", "TGA", "91"

Business Rules: If color code is indicated, colorCodeListAgency is required. Sector specific extension.

Class Name: TradeItemColorDescription

Item Name: colorCodeValue

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependent: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..20

Definition: The code list required to identify the color of the trade item. No ISO standards exist. Each industry needs to determine which code agency is will use.
Examples:

**Business Rules:** If color code is indicated, colorCodeListAgency is required. EANCOM code list is to be used. This is used by certain industries which maintain specific color code lists.

**Class Name:** TradeItemColorDescription

**Item Name:** colorDescription

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Multi Description
- **Size:** ..70

**Definition:** Free text description of the color of the trade item.

**Examples:** "Dark burgundy"

**Business Rules:** Free from text. As 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.

**Class Name:** TradeItemCoupon

**Item Name:** couponFamilyCode

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** 3

**Definition:** 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.
Examples:

**Business Rules:** It only applies to the consumer unit. Note this is treated in the XML as a mandatory attribute in an optional class.

**Class Name:** TradeItemDateInformation

**Item Name:** canceledDate

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYY-MM-DD

**Definition:** Communicates cancelation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation.

**Examples:** "2002-11-20"

**Business Rules:** Use ISO 8601 date format CCYY-MM-DD

**Class Name:** TradeItemDateInformation

**Item Name:** consumerAvailabilityDateTime

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** DateTime
- **Size:** CCYY-MM-DDTHH:MM:SS

**Definition:** The first date/time that the buyer is allowed to sell the trade item to consumers. Usually related to a specific geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS.

**Examples:** "2002-02-05T17:00:00" February 5th 2002 5:00:00pm
**Business Rules:** 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.

**Class Name:** TradeItemDateInformation

**Item Name:** discontinuedDate

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYY-MM-DD

**Definition:** 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).

**Examples:** “2002-02-05”

**Business Rules:** ISO 8601 date format CCYY-MM-DD

**Class Name:** TradeItemDateInformation

**Item Name:** effectiveDate

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Date
- **Size:** CCYY-MM-DD

**Definition:** 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.

**Examples:** "2002-02-05"
Business Rules: 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

Class Name: TradeItemDateInformation

Item Name: endAvailabilityDateTime

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS.

Definition: The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.

Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm

Business Rules: 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.

Class Name: TradeItemDateInformation

Item Name: endDateMaximumBuyingQuantity:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS.

Definition: The end date for when the maximum buying quantity is no longer available to the trading partner.

Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm

Business Rules:

Class Name: TradeItemDateInformation
Item Name: endDateMinimumBuyingQuantity

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS.

Definition: The end date for when the minimum buying quantity is no longer available to the trading partner.

Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm

Business Rules:

Class Name: TradeItemDateInformation
Item Name: endDateTimeOfExclusivity:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS.

Definition: The Date & Time at which a product is no longer exclusive to that trading partner.
Examples: "2002-02-05T17:00:00"  February 5th 2002 5:00:00pm

Business Rules:

Class Name: TradeItemDateInformation

Item Name: firstOrderDate:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: Indicates the earliest date that an order can be placed for the trade item.

Examples: "2002-02-05"

Business Rules:

Class Name: TradeItemDateInformation

Item Name: firstShipDate:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: Indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.

Examples: "2002-02-05"
Class Name: TradeItemDateInformation

Item Name: lastOrderDate:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: Indicates the latest date that an order can be placed for the trade item.

Examples: "2002-02-05"

Business Rules:

Class Name: TradeItemDateInformation

Item Name: lastShipDate:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: Indicates the latest date that the trade item can be shipped. This is independent of any specific ship-from location.

Examples: "2002-02-05"

Business Rules:

Class Name: TradeItemDateInformation

Item Name: lastChangeDateTime

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS.

Definition: 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.

Examples: "2002-02-05T17:00:00" = February 5th 2002 5:00:00pm

Business Rules: System generated by the home data pool. Date format defined in ISO 8601- CCYY-MM-DDTHH:MM:SS

Class Name: TradeItemDateInformation
Item Name: publicationDate
Core/Extension: E
Global Local Status: G/L
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: A date on which all static data associated with the trade item becomes available for viewing and synchronization.

Examples: "2002-02-05" February 5th 2002

Business Rules: 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.
Class Name: TradeItemDateInformation

Item Name: startAvailabilityDateTime

Core/Extension: E
Global Local Status: G/L
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS

Definition: 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.

Examples: "2002-02-05T17:00:00"  February 5th 2002 5:00:00pm

Business Rules: 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.

Class Name: TradeItemDateInformation

Item Name: startDateMaximumBuyingQuantity

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS

Definition: The start date and time for when the maximum buying quantity is available to the trading partner.
Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm

Business Rules:

Class Name: TradeItemDateInformation

Item Name: startDateMinimumBuyingQuantity

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: DateTime
Size: CCYY-MM-DDTHH:MM:SS

Definition: The start date for when the minimum buying quantity is available to the trading partner.

Examples: "2002-02-05T17:00:00" February 5th 2002 5:00:00pm

Business Rules:

Class Name: TradeItemFinish

Item Name: tradeItemFinishDescription

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Description
Size: 70

Definition: Attribute which defines the outer surface/appearance of the product.

Example: Antique brass, bright brass, oak or walnut finish

Business Rules: Until approved in the standards, use of “color” Attribute to define finish is acceptable. Would only need to be added on Consumer Unit Items.
Class Name: TradeItemHandlingInformation

Item Name: handlingInstructionsCode

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: AN
- Size: 5

Definition: 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.

Examples:
"DNF" – Do Not Freeze
"FTD" – Frost danger
"HS" – Heat sensitive
"HWC" – Handle with care

Business Rules: Repeatable values are accepted. See Implementation Considerations and Concerns for more details.

Class Name: TradeItemHandlingInformation

Item Name: minimumTradeItemLifespanFromTimeOfArrival

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P Neutral & T.P.Dependent
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: N
- Size: ..4

Definition: 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.

Examples: "35"

Business Rules: 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.
Class Name: TradeItemHandlingInformation

Item Name: stackingFactor

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: No
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: N
Size: ..6

Definition: A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.

Examples: Factor of "2" = trade item is stackable 2 high

Business Rules: 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.

Class Name: TradeItemHandlingInformation

Item Name: stackingWeightMaximum

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: 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.

Examples: "500 KGM"

Business Rules: Used in conjunction with unit of measure.
Class Name: TradeItemHandlingInformation

Item Name: minimumTradeItemLifespanFromTimeOfProduction:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P Neutral & T.P.Dependent
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: N
Size: 4

Examples: The period of day, guaranteed by the manufacturer, before the expiration date of the product, based on the production.

Business Rules:

Class Name: TradeItemHazardousInformation

Item Name: dangerousGoodsIndicator—This boolean question is answered by the application of the class and is thus not included in model or schema.

Core/Extension: E
Global Local Status: G/L
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: Indication, whether the trade item and/or at least one of its packaging components because of its properties - according to the respective national or international legislation for transport by road, rail, river, sea or air (e.g. the European dangerous goods agreements (ADR/RID) for transport by road and rail) - must be classified as dangerous good, and thus is subject to the respective regulations.

Examples:

Business Rules: Boolean Y/N
Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

Technical Note: This Boolean question is answered by the application of class “TradeItemHazardousInformation”.

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**Class Name:** TradeItemHazardousInformation

**Item Name:** dangerousGoodsRegulationCode

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** AN
- **Size:** 3

**Definition:** Code indicating the classification system(s) of dangerous goods and/or the Agency(ies) responsible for it.

**Examples:** "ADR" European agreement on the international carriage of dangerous goods on roads.

**Business Rules:** Various systems (ADR, RID, US49, IATA, etc.) exist and are used for hazard classification and identification.

Repeatable field


Hazardous attributes relate to supply chain handling (e.g., transport, storage, handling).

**Class Name:** TradeItemHazardousInformation

**Item Name:** flashPointTemperature

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** D
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Measurement
- **Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** The lowest temperature at which a substance gives off a sufficient vapor to support combustion. This uses a measurement consisting of a unit of measure and value.

**Examples:** -
**Business Requirements Document**

**DATA SYNCHRONIZATION DATA MODEL**

**FOR TRADE ITEM**

**DATA DEFINITION**

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**Business Rules:** Information required when dangerousGoodsRegulationCode is populated. 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).

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**Class Name:** TradeItemHierarchy

**Item Name:** quantityOfCompleteLayersContainedInATradeItem

**Core/Extension:** E

**Global Local Status:** G

**M/O/D:** O

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Neutral

**Product Hierarchy Reference Level:** Mixed Mod, Pallet, Display/Shipper, Case, Pack

**Common value to all product hierarchy:** No

**Type:** N

**Size:** 6

**Definition:** The number of layers of the base trade item found in a trade item. Does not apply to the base trade item unit.

**Examples:**

**Business Rules:** Only applies to logistic units (e.g. pallet, case, etc)

---

**Class Name:** TradeItemHierarchy

**Item Name:** quantityOfLayersPerPallet

**Core/Extension:** E

**Global Local Status:** G

**M/O/D:** O

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Neutral

**Product Hierarchy Reference Level:** Each

**Common value to all product hierarchy:** No

**Type:** N

**Size:** 6

**Definition:** 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.
Examples:

**Business Rules**: 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.

**Class Name**: TradeItemHierarchy

**Item Name**: quantityOfTradeItemsContainedInACompleteLayer

- **Core/Extension**: E
- **Global Local Status**: G
- **M/O/D**: O
- **Multiple Values Allowed**: N
- **Neutral/Relationship Dependant**: T.P.Neutral
- **Product Hierarchy Reference Level**: Mixed Mod, Pallet, Display/Shipper, Case, Pack
- **Common value to all product hierarchy**: No
- **Type**: N
- **Size**: 6

**Definition**: 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.

Examples:

**Business Rules**: Only applies to logistic units (e.g. pallet, case, etc)

**Class Name**: TradeItemHierarchy

**Item Name**: quantityOfTradeItemsPerPallet

- **Core/Extension**: E
- **Global Local Status**: G
- **M/O/D**: O
- **Multiple Values Allowed**: N
- **Neutral/Relationship Dependant**: T.P.Neutral
- **Product Hierarchy Reference Level**: Pallet, Mixed Mod
- **Common value to all product hierarchy**: No
- **Type**: N
- **Size**: 6

**Definition**: 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.
Examples:

**Business Rules:** 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.

Class Name: TradeItemHierarchy

Item Name: quantityOfTradeItemsPerPalletLayer

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Pallet, MixedMod
- Common value to all product hierarchy: No
- Type: N
- Size: 6

**Definition:** 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.

Examples:

**Business Rules:** 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.

Class Name: TradeItemHierarchy

Item Name: quantityOfInnerPack

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: N
- Size: ..3

**Definition:** Indicates the number of non-coded physical groupings (innerpacks) of next lower level trade items within the current GTIN level.
Examples: Case of 12 bottles of shampoo contains two non-coded plastic wrapped bundles each with six bottles. Value = "2"

Business Rules: 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

Class Name: TradeItemHierarchy

Item Name: quantityOfNextLevelTradeItemWithinInnerPack

   Core/Extension: E
   Global Local Status: G
   M/O/D: O
   Multiple Values Allowed: N
   Neutral/Relationship Dependant: T.P.Neutral
   Product Hierarchy Reference Level: All
   Common value to all product hierarchy: No
   Type: N
   Size: ..3

Definition: Indicates the number of next lower level trade items contained within the physical non-coded grouping (innerpack)

Examples: Case of 12 bottles of shampoo contains two non-coded plastic wrapped bundles each with six bottles. Value = "6"

Business Rules: 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

Class Name: TradeItemImportIdentification

Item Name: importClassificationType

   Core/Extension: E
   Global Local Status: G/L
   M/O/D: O
   Multiple Values Allowed: N
   Neutral/Relationship Dependant: T.P.Neutral
   Product Hierarchy Reference Level: Each
   Common value to all product hierarchy: No
   Type: Enumerated List
   Size: Not Applicable

Definition: This is a code to indicate the type of import classification for the Trade Item.
Examples: 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.

Class Name: TradeItemImportIdentification

Item Name: importClassificationValue:

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: AN
- Size: 70

Definition: 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.

Business Rules: Required on Import Products only.

Class Name: TradeItemMarking

Item Name: hasBatchNumber

- Core/Extension: E
- Global Local Status: L
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: Boolean
- Size: Not Applicable

Definition: 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.
Examples:

Business Rules: Local legal requirement (E.g. Austria). Relevant only for certain industries.

Class Name: TradeItemMarking

Item Name: isNonSoldTradeItemReturnable

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: 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.

Examples:

Business Rules: This attribute applies to certain industries, and applies to return of salable goods. This indicator identifies the general rule, and is not transaction based.

Class Name: TradeItemMarking

Item Name: isTradeItemMarkedAsRecyclable

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: Trade item has a recyclable indication marked on it, This may be a symbol from one of many regional agencies.
Examples: Battery recycling logo placed on the battery, Refrigerators, Heat Pumps and Air Conditioners symbol, Paper marked as recyclable symbol, Plastic types marked as recyclable symbols.

Business Rules: This is a yes/no (Boolean) where yes equals trade item marked with ISO markings.

Class Name: TradeItemMaterial

Item Name: materialWeight:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The measured weight of the material expressed in ounces per square yard or grams per square meter. For example: 20 OZ Denim would be specified as 20 UOM = ON. The fabrics range from gossamer fine to bulky and are described with the following terms: light, medium, medium-heavy, and heavy. Light weight fabrics weigh up to 6 oz./sq. yd. (200 g/m2). They include applications such as crisp café curtains and a number of sheer window coverings. Medium weight fabrics generally weigh from 6 oz./sq. yd. to 12 oz./sq. yd. (200 g/m2 to 400 g/m2). They hang well in drapes and are the common choice for slipcovers. Medium-heavy weight fabrics weigh from 12 oz./sq. yd. to 18 oz./sq. yd. (400 g/m2 to 600 g/m2). They comprise most upholstery fabrics, many drapery materials, and the most substantial terry toweling. Heavy weight fabrics weigh over 18 oz./sq. yd. (600 g/m2). They include a number of upholstery fabrics. The very heaviest consumer textiles are various types of carpet and other floor coverings.

Business Rules: Acceptable Units of Measure for fabric weight are: ON – Ounces per square yard (oz/yd2)GM - Grams per square meter (g/m²).

Class Name: TradeItemMaterial

Item Name: threadCount:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Description
Size: 70

Definition: This element is used to specify the quality of material (fabric) of a trade item.

Example: 300 threads per square inch for sheets.

Business Rules: May be used for marketing purposes (both to buyer and end consumer).

Class Name: TradeItemMeasurements

Item Name: depth

Core/Extension: E
Global Local Status: G
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The measurement from front to back of the trade item.

Examples: "5 MMT"

Business Rules: Measurements are relative to how the customer normally views the trade item. Orientation guidelines to be determined by PTRG within CR 02-000102 by Needs to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

Class Name: TradeItemMeasurements

Item Name: diameter

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The measurement of the diameter of the trade item at its largest point.

Examples: 165 "mmt", value - mmt, diameter

Business Rules: Has to be associated with valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

Class Name: TradeItemMeasurements

Item Name: drainedWeight

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The weight of the trade item when drained of its liquid.

Examples: 225 "grm", Jar of pickles in vinegar. Value, ounces, pounds, etc.

Business Rules: Applies to defined bricks of GCI Global trade item Classification - Mainly food trade item. Has to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

Class Name: TradeItemMeasurements

Item Name: genericIngredient

Core/Extension: E
Global Local Status: L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
**Common value to all product hierarchy:** No

**Type:** AN

**Size:** .35

**Definition:** Used, for pharmaceutical trade item to describe 1 or many generic ingredients within the trade item.

**Examples:** "Paracetamol", "Codeine"

**Business Rules:** Sector specific and local extension. Can be repeated.

**Class Name:** TradeItemMeasurements

**Item Name:** genericIngredientStrength

**Core/Extension:** E

**Global Local Status:** L

**M/O/D:** O

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Neutral

**Product Hierarchy Reference Level:** Each

**Common value to all product hierarchy:** No

**Type:** Multi Measurement Value

**Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** Used, for pharmaceutical trade item to define the strength of each generic ingredient in a trade item or unit volume of the trade item.

**Examples:**

**Business Rules:** Sector specific and local extension.

Repeated per generic Substance

Needs to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more details on UoM.

**Class Name:** TradeItemMeasurements

**Item Name:** grossWeight

**Core/Extension:** E

**Global Local Status:** G

**M/O/D:** O

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Neutral

**Product Hierarchy Reference Level:** All

**Common value to all product hierarchy:** No

**Type:** Multi Measurement Value

**Size:** Decimal 15, String 3 for Unit Of Measure
Definition: Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade itemGrossWeight includes the weight of the pallet itself.

Examples: "200 grm", value - total pounds, total grams, etc.

Business Rules: Has to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

Class Name: TradeItemMeasurements

Item Name: height

Core/Extension: E  
Global Local Status: G  
M/O/D: M  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Neutral  
Product Hierarchy Reference Level: All  
Common value to all product hierarchy: No  
Type: Multi Measurement Value  
Size: Decimal 15, String 3 for Unit Of Measure

Definition: 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.

Examples: "60 CMT"

Business Rules: Measurements are relative to how the customer normally views the trade item. Orientation guidelines to be determined by PTRG within CR 02-000102 by Needs to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

Class Name: TradeItemMeasurements

Item Name: ingredientStrength

Core/Extension: E  
Global Local Status: G/L  
M/O/D: O  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Neutral  
Product Hierarchy Reference Level: Each  
Common value to all product hierarchy: No
Type: AN
Size: ..18

Definition: Used for pharmaceutical trade item to define the strength of each ingredient in a trade item or unit volume of the trade item.

Examples: "100mg" for a tablet, "2%" for a liquid or ointment, where 100 and 2 represent the value, and mg and % are the units of measure

Business Rules: Sector specific extension pharmaceutical trade item. Can be locally mandatory based on each country’s laws. Has to be associated with a valid unitBasisOfMeasure

Class Name: TradeItemMeasurements

Item Name: isNetContentDeclarationIndicated

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: 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

Examples:

Business Rules: For a product without an on-pack net content declaration this field should be indicated as YES, weight should be communicated at the trade unit level.

Class Name: TradeItemMeasurements

Item Name: netContent

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure
**Definition:** The amount of the trade item contained by a package, as claimed on the label. (See examples)

**Examples:** Evian Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea."

**Business Rules:** In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade item which are sold by volume or weight, and whose actual content may vary slightly from batch to batch. In case of variable quantity trade items, indicates the average quantity. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

**Class Name:** TradeItemMeasurements

**Item Name:** netWeight

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Mixed Mod, Pallet, Display /Shipper, Case Pack
- **Common value to all product hierarchy:** No
- **Type:** Multi Measurement Value
- **Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level.

**Examples:** "11.5 kgm" value - pounds, grams, etc.

**Business Rules:** For consumer unit, Net Content replaces Net Weight (can then be weight, size, volume). Has to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

**Class Name:** TradeItemMeasurements

**Item Name:** priceComparisonContentType

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: Code indicating how the value in priceComparisonMeasurement is used to calculate the comparative price, which is printed on shelf labels.

Examples:

Business Rules:

Class Name: TradeItemMeasurements
Item Name: priceComparisonMeasurement

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: 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.

Business Rules: This field is dependent on the population of priceComparisonContentType and is required when priceComparisonContentType is used.

Class Name: TradeItemMeasurements
Item Name: tradeItemCompositionWidth:

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure
**Definition:** 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.

**Class Name:** TradeItemMeasurements

**Item Name:** width

**Core/Extension:** E  
**Global Local Status:** G  
**M/O/D:** M  
**Multiple Values Allowed:** N  
**Neutral/Relationship Dependant:** T.P.Neutral  
**Product Hierarchy Reference Level:** All  
**Common value to all product hierarchy:** No  
**Type:** Multi Measurement Value  
**Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** The measurement from left to right of the trade item.

**Examples:** "10 INH"

**Business Rules:** Measurements are relative to how the customer normally views the trade item. Orientation guidelines to be determined by PTRG within CR 02-000102 by Needs to be associated with a valid UoM. See Section 4.6 of the Implementation Considerations and Concerns for more detail on UoM.

**Class Name:** TradeItemOrderInformation

**Item Name:** agreedMaximumBuyingQuantity

**Core/Extension:** E  
**Global Local Status:** G/L  
**M/O/D:** O  
**Multiple Values Allowed:** N  
**Neutral/Relationship Dependant:** T.P.Dependent  
**Product Hierarchy Reference Level:** All  
**Common value to all product hierarchy:** No  
**Type:** N  
**Size:** .9

**Definition:** The maximum quantity of the product available to the retailer.
Class Name: TradeItemOrderInformation

Item Name: agreedMinimumBuyingQuantity:

  Core/Extension: E
  Global Local Status: G/L
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P. Dependent
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: No
  Type: N
  Size: ..9

  Definition: Minimum buying quantity agreed between trading partners.

Class Name: TradeItemOrderInformation

Item Name: firstDeliveryDateTime:

  Core/Extension: E
  Global Local Status: G/L
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P. Dependent
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: No
  Type: Date Time
  Size: CCYY-MM-DDTHH:MM:SS

  Definition: The earliest date at which the supplier can deliver the product to the trading partner.

Class Name: TradeItemOrderInformation

Item Name: goodsPickUpLeadTime:

  Core/Extension: E
  Global Local Status: G/L
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P. Dependent
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: No
  Type: Multi Measurement Value
  Size: Decimal 15, String 3 for Unit Of Measure
Definition: Time (in weeks, days, hours …) required between order entry and the earliest goods release (use for pick-up, not use for delivery).
Mark about ordering lead-time: Geographic distance from manufacturing / distribution point to delivery point impacts this value (relationship dependent data).

**Class Name:** TradeItemOrderInformation

**Item Name:** isTradeItemReorderable

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Dependent
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** 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. Example: Some Designer's Merchandise, T-shirts printed out for a special event (commemorative items).

**Class Name:** TradeItemOrderInformation

**Item Name:** isTradeItemSizeBasedPricing:

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Dependent
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** 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).

**Class Name:** TradeItemOrderInformation

**Item Name:** orderingLeadTime

- **Core/Extension:** E
Global Local Status: G/L  
M/O/D: O  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Neutral  
Product Hierarchy Reference Level: All  
Common value to all product hierarchy: No  
Type: Multi-Measurement  
Size: Decimal 15, String 3 for Unit Of Measure  

**Definition:** The normal delivery time measured from receipt of order by the seller until trade item is shipped by the seller.  

**Examples:** 12 hours, 48 hours, 4 days.  

**Business Rules:** 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.

**Class Name:** TradeItemOrderInformation  
**Item Name:** orderQuantityMaximum  
Core/Extension: E  
Global Local Status: G/L  
M/O/D: O  
Multiple Values Allowed: N  
Neutral/Relationship Dependant: T.P.Dependent  
Product Hierarchy Reference Level: All  
Common value to all product hierarchy: No  
Type: N  
Size: ..9  

**Definition:** 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.

**Examples:** - “when a manufacturer chooses to control manufacturing costs by limiting the amount of product that a customer can buy per order – example – Geneva watchmaker only allows orders of 10 watches per customer per order so as to control their production for quality control reasons, and to ensure that all of his customers receive some product.”

**Business Rules:** 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.
Class Name: TradeItemOrderInformation

Item Name: orderQuantityMinimum

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: N
Size: ..9

Definition: 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.

Examples:

Business Rules: 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.

Class Name: TradeItemOrderInformation

Item Name: orderQuantityMultiple

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: N
Size: ..9

Definition: 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.

Examples: 100, 120, 140, 200. A number or a count.

Business Rules: 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, eg 100, 120, 140
200 etc.

**Class Name:** TradeItemOrderInformation

**Item Name:** orderSizingFactor

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Multi Measurement Value
- **Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** 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.

**Examples:**

**Business Rules:** Assumes a standard size truck or lorry

**Class Name:** Trade Item Pallet Information

**Item Name:** palletTypeCode

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Pallet
- **Common value to all product hierarchy:** No
- **Type:** Char
- **Size:** 3

**Definition:** 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.

**Examples:** "200" = pallet ISO 0, 1/2 Euro pallet.
Business Rules: 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.

Class Name: TradeItemPalletInformation

Item Name: palletTermsAndConditions

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Pallet
Common value to all product hierarchy: No
Type: AN
Size: 2

Definition: Indicates if the pallet in the prescribed pallet configuration is rented, exchangeable, against deposit or one way (not reusable).

Examples: "7E" for non-returnable pallet

Business Rules: Used in conjunction with a pallet GTIN. List of authorized values based on EANCOM 7073, X12 DE102 and X12 DE399.

Class Name: TradeItemPriceDateInformation

Item Name: cataloguePrice – represented by UML role

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Amount
Size: 17.4

Definition: The gross price before application of any discounts, allowances, charges, taxes, etcetera. The value represented is the price that the manufacturer expects to receive for the trade item or service from any buyer prior to any relationship specific negotiations (E.g. a public catalogue population). Synonym: List price

Examples: "USD 49.50", "EUR 350,00"
Business Rules: CatalogPrice would reside within the Item master data. The Core Price model would contain class and price along with the class price type. These will be one of the numerated values for class price type in Core Price model.

Implementation Note: This attribute is represented by UML role.

Class Name: TradeItemPriceDateInformation
Item Name: effectiveStartDate

Core/Extension: E
Global Local Status: G/L
M/O/D: D
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependant*
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: 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.

Examples: -2002-11-15

Business Rules: Format defined in ISO8601

Class Name: TradeItemPriceDateInformation
Item Name: effectiveEndDate

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: N/T.P.Dependent*
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Date
Size: CCYY-MM-DD

Definition: 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.

Examples: 2005-12-31

Business Rules: PriceEndDate not required at time of initial price amount. Format defined by ISO8601

Class Name: TradeItemPriceDateInformation

Item Name: suggestedRetailPrice → represented by UML role

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Amount
Size: 17.4

Definition: 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. May be used as a guideline by the retailer to establish their actual retail price.

Examples: "value" USD1.90", "EUR 36"

Business Rules: 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. ISO 4217 format three digit alpha code.
When the suggestedRetailPrice is provided for information (and not on the package : priceOnPackIndicator = 'N') , it can be different per Target Market and becomes G / L. See Section 4.5 of Implementation Considerations and Concerns for more details.
Class Name: TradeItemSizeDescription

Item Name: descriptiveSize

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: Yes
Type: Description
Size: ..35

Definition: An alphanumeric size factor the brand owner wishes to communicate to the consumer. IE Jumbo, Capri, Full Length, Maxi

Examples: "Maxi", "Jumbo", "Mini", "7", "10 ½", "small"

Business Rules: A descriptive size other than net content as labeled on consumer unit. Must be associated with a valid ISO language code from the attached table.

Class Name: TradeItemSizeDescription

Item Name: sizeCodeListAgency

Core/Extension: E
Global Local Status: G
M/O/D: D
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: AN
Size: ..3

Definition: The parties controlling the size code list. Dependent on size code value.

Examples: "25" EDITEX.

Business Rules: If size code is indicated, sizeCodeListAgency is required. Sector specific extension.
**Item Name:** sizeCodeValue

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** Y
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No

**Definition:** The value from an 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)

**Examples:** Used in industries such as shoes, apparel, home linens. "12 1/2 Med". Shoe, pants which are "32W by 36" in, Oval Table Cover that is "36x"

**Business Rules:** Sector specific extension. Refer to Attribute code list in Implementation section.

**Class Name:** TradeItemTemperatureInformation

**Item Name:** deliveryToDistributionCenterTemperatureMaximum

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Multi Measurement Value
- **Size:** Decimal 15, String 3 for Unit Of Measure

**Definition:** Permitted maximum temperature of the trade item on transport to the distribution center.

**Examples:** "+6 C" or degrees F, value

**Business Rules:** 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. See Section 4.6 of the Implementation Considerations and Concerns for more details of UoM.
Class Name: TradeItemTemperatureInformation

Item Name: deliveryToDistributionCenterTemperatureMinimum

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: Permitted minimum temperature of the trade item on transport to the distribution center.

Examples: "+2  C" or degrees F, value

Business Rules: 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. See Section 4.6 of the Implementation Considerations and Concerns for more details of UoM.

Class Name: TradeItemTemperatureInformation

Item Name: deliveryToMarketTemperatureMaximum

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: Permitted maximum temperature of the trade item during delivery to market.

Examples: "+7  C" or degrees F, value

Business Rules: 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. See Section 4.6 of the Implementation Considerations and Concerns for more details of UoM.

Class Name: TradeItemTemperatureInformation

Item Name: deliveryToMarketTemperatureMinimum

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: Permitted minimum temperature of the trade item during delivery to market to market.

Examples: "+3 C" or degrees F, value

Business Rules: 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. See Section 4.6 of the Implementation Considerations and Concerns for more details of UoM.

Class Name: TradeItemTemperatureInformation

Item Name: storageHandlingHumidityMaximum:

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: Multi Measurement Value
Size: Decimal 15, String 3 for Unit Of Measure

Definition: The maximum humidity in percentages that the goods should be stored in.

Examples:

Business Rules:
Class Name: TradeItemTemperatureInformation

Item Name: storageHandlingHumidityMinimum:

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: Each
- Common value to all product hierarchy: No
- Type: Multi Measurement Value
- Size: Decimal 15, String 3 for Unit Of Measure

Definition: The minimum humidity in percentages that the goods should be stored in.

Examples:

Business Rules:

Class Name: TradeItemTemperatureInformation

Item Name: storageHandlingTemperatureMaximum

- Core/Extension: E
- Global Local Status: G
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: Yes
- Type: Multi Measurement Value
- Size: Decimal 15, String 3 for Unit Of Measure

Definition: The maximum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.

Examples: "+15 F" or degrees C, value

Business Rules: When no other information is provided (temperatures to market or/and distribution center), 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. See Section 4.6 of the Implementation Considerations and Concerns for more details on UoM.
Class Name: TradeItemTemperatureInformation

Item Name: storageHandlingTemperatureMinimum

  Core/Extension: E
  Global Local Status: G
  M/O/D: O
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: Yes
  Type: Multi Measurement Value
  Size: Decimal 15, String 3 for Unit Of Measure

Definition: The minimum temperature at which the trade item can be stored. This uses a measurement consisting of a unit of measure and a value.

Examples: "-30 C" or degrees F, value

Business Rules: When no other information is provided (temperatures to market or/and distribution center), 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. See Section 4.6 of the Implementation Considerations and Concerns for more details of UoM.

Class Name: TradeItemUnitIndicator

Item Name: isTradeItemABaseUnit

  Core/Extension: E
  Global Local Status: G
  M/O/D: M
  Multiple Values Allowed: N
  Neutral/Relationship Dependant: T.P.Neutral
  Product Hierarchy Reference Level: All
  Common value to all product hierarchy: No
  Type: Boolean
  Size: Not Applicable

Definition: An indicator identifying the trade item as the base unit level of the trade item hierarchy. This is a (Boolean) where y indicates the trade item is a base unit.

Examples: A bundle pack of product is composed of packages without GTINs that cannot be sold individually. This bundle pack would then be a
base item. If that same bundle pack contained individual packages that have a GTIN + could be individually sold it would not.

**Business Rules:**

**Class Name:** TradeItemUnitIndicator

**Item Name:** isTradeItemAConsumerUnit

**Core/Extension:** E  
**Global Local Status:** G  
**M/O/D:** M  
**Multiple Values Allowed:** N  
**Neutral/Relationship Dependant:** T.P.Neutral  
**Product Hierarchy Reference Level:** All  
**Common value to all product hierarchy:** No  
**Type:** Boolean  
**Size:** Not Applicable

**Definition:** Identifies whether the current hierarchy level of a trade item is intended for a ultimate consumption. For retail, this trade item will be scanned at point of sale. At retail, this data is commonly used to select which GTINs should be used for shelf planning and for front end POS databases. This value reflects the intention of the Information Provider which may not necessarily be the intention of the retailer.

**Examples:** A multi-pack of paper towels and the individual paper towels contained in the multi-pack are both identified as a consumer unit.

**Business Rules:** There can be more than one consumer unit in one hierarchy

**Class Name:** TradeItemUnitIndicator

**Item Name:** isTradeItemADespatchUnit

**Core/Extension:** E  
**Global Local Status:** G/L  
**M/O/D:** M  
**Multiple Values Allowed:** N  
**Neutral/Relationship Dependant:** T.P.Dependent  
**Product Hierarchy Reference Level:** All  
**Common value to all product hierarchy:** No  
**Type:** Boolean  
**Size:** Not Applicable

**Definition:** An indicator identifying that the information provider considers the trade item as a dispatch (shipping) unit. This may be Trading Partner
dependent based on channel of trade or other point to point agreement.
This is y/n (Boolean) where y indicates the trade item is a dispatch unit.

Examples: -

Business Rules: There can be more than one logistic unit in one hierarchy

Class Name: TradeItemUnitIndicator

Item Name: isTradeItemAnInvoiceUnit

Core/Extension: E
Global Local Status: G/L
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable

Definition: An indicator identifying that the information provider will include this trade item on their billing or invoice. This may be Trading Partner dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an invoicing unit.

Examples: -

Business Rules: There can be more than one invoicing unit in one hierarchy

Class Name: TradeItemUnitIndicator

Item Name: isTradeItemAnOrderableUnit

Core/Extension: E
Global Local Status: G/L
M/O/D: M
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Boolean
Size: Not Applicable
**Definition:** An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers. This may be different from what the information provider identifies as a despatch unit. This may be relationship dependent based on channel of trade or other point to point agreement. This is y/n (Boolean) where y indicates the trade item is an ordering unit.

**Examples:**

**Business Rules:** There can be more than one ordering unit in one hierarchy.

**Class Name:** TradeItemUnitIndicator

**Item Name:** isTradeItemAVariableUnit

**Core/Extension:** E

**Global Local Status:** G

**M/O/D:** M

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Neutral

**Product Hierarchy Reference Level:** All

**Common value to all product hierarchy:** No

**Type:** Boolean

**Size:** Not Applicable

**Definition:** Indicates that an article is not a fixed quantity, but that the quantity is variable. Can be weight, length, volume. trade item is used or traded in continuous rather than discrete quantities.

**Examples:** Wheel of Cheese: The weight is about 25 kilograms, but it can be 24 kilogram or 27 kilogram.

**Business Rules:** Boolean Yes=variable, No=fixed. Applies to EAN.UCC bricks: Meat, Cheese, Fruits, Dairy trade item.

**Class Name:** TradeItemUnitIndicator

**Item Name:** priceByMeasureType

**Core/Extension:** E

**Global Local Status:** G/L

**M/O/D:** O

**Multiple Values Allowed:** N

**Neutral/Relationship Dependant:** T.P.Dependent

**Product Hierarchy Reference Level:** All

**Common value to all product hierarchy:** No

**Type:** Enumerated List
Definition: Indicator to show how a product is sold.

Examples:

Business Rules:

Class Name: TradeItemUnitIndicator

Item Name: variableTradeItemType:

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Dependent
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Enumerated List
Size: Not Applicable

Definition: Indicator to show if a product is loose or pre-packed.

Examples: Wheel of Cheese: The weight is about 25 kilograms, but it can be 24 kilogram or 27 kilogram.

Business Rules:
3.7 TRADE ITEM TAX INFORMATION:

Class Name: TaxAgency

Item Name: taxAgencyCode

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: ..3

Definition: Identifies the agency responsible for the tax code list

Examples: X1 = BE, ICODIF/EAN Belgium - Luxembourg

Business Rules:

Class Name: TaxAgency

Item Name: taxTypeCode

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: AN
Size: 14

Definition: Identification of the type of duty or tax or fee applicable to the trade item.

Examples: "3001000002138"

Business Rules: This will vary by target market. Repeatable field inside each possible target market.
Class Name: TaxAgency

Item Name: taxTypeDescription

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: O
- Multiple Values Allowed: N
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: AN
- Size: 35

Definition: Automatically generated text description of tax type code.

Examples: "Taxes sure les supports audio"

Business Rules: -

Class Name: TradeItemTaxRate

Item Name: taxRate

- Core/Extension: E
- Global Local Status: G/L
- M/O/D: O
- Multiple Values Allowed: Y
- Neutral/Relationship Dependant: T.P.Neutral
- Product Hierarchy Reference Level: All
- Common value to all product hierarchy: No
- Type: N
- Size: 3.2

Definition: The current tax or duty rate percentage applicable to the trade item.

Examples: -

Business Rules: This will vary by target market. taxRate and taxAmount are mutually exclusive for each tax type. Percentage is implicit.
Class Name: TradeItemTaxAmount

Item Name: taxAmount

Core/Extension: E
Global Local Status: G/L
M/O/D: O
Multiple Values Allowed: Y
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: All
Common value to all product hierarchy: No
Type: Amount
Size: 13.4

Definition: The current tax or duty or fee amount applicable to the trade item.

Examples: Value – “USD 1.06”, “EUR 36”

Business Rules: 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.
3.8 FMCG (Fast Moving Consumer Goods) – INDUSTRY SPECIFIC:

**Class Name:** FMCGTradeItemMarking

**Item Name:** isIngredientIrradiated

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** Indicates if radiation has been applied to a trade item’s ingredient.

**Examples:**

**Business Rules:**

Note: This requirement is handled through the FMCG Extension. Should only be submitted if a claim is made on the trade item.

---

**Class Name:** FMCGTradeItemMarking

**Item Name:** isRawMaterialIrradiated

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** Indicates if radiation has been applied to a trade item’s raw material.

**Examples:**

**Business Rules:**

Note: This requirement is handled through the FMCG Extension.
Should only be submitted if a claim is made on the trade item. This field is trade item specific, indicating that radium has been applied to the trade item.

**Class Name:** FMCGTradeItemMarking

**Item Name:** isTradeItemGeneticallyModified

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** Used to indicate whether trade item contains genetically modified contents.

**Examples:** See code list

**Business Rules:**

Note: This requirement is handled through the FMCG Extension.

**Class Name:** FMCGTradeItemMarking

**Item Name:** isTradeItemIrradiated

- **Core/Extension:** E
- **Global Local Status:** G/L
- **M/O/D:** M
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Boolean
- **Size:** Not Applicable

**Definition:** Indicates if radiation has been applied to an trade item.

**Examples:**

**Business Rules:**

Note: This requirement is handled through the FMCG Extension.
Should only be submitted if a claim is made on the trade item. This field is trade item specific, indicating that radium has been applied to the trade item.

**Class Name:** FMCGTradeItemMeasurements

**Item Name:** degreeOfOriginalWort

- **Core/Extension:** E
- **Global Local Status:** L
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** All
- **Common value to all product hierarchy:** No
- **Type:** Char
- **Size:** 3

**Definition:** Specification of the degrees of original wort.

**Examples:** The beer degree for the allocation of different original wort proportions in different kinds of beer to the respective beer tax group and beer tax rate.

**Business Rules:**

- Note: This requirement is handled through the FMCG Extension.
- Sector specific extension (alcoholic beverages) Local legal requirement (Austria)

**Class Name:** FMCGTradeItemMeasurements

**Item Name:** fatPercentageInDryMatter

- **Core/Extension:** E
- **Global Local Status:** G
- **M/O/D:** O
- **Multiple Values Allowed:** N
- **Neutral/Relationship Dependant:** T.P.Neutral
- **Product Hierarchy Reference Level:** Each
- **Common value to all product hierarchy:** No
- **Type:** Percentage
- **Size:** 3.2

**Definition:** The amount of fat contained in the base product expressed in percentage.
Examples: ‘10’

Business Rules:
Note: This requirement is handled through the FMCG Extension.
Mainly concerns cheese and dairy trade items. Percentage is implicit.

Class Name: FMCGTradeItemMeasurements

Item Name: percentageOfAlcoholByVolume

Core/Extension: E
Global Local Status: G
M/O/D: O
Multiple Values Allowed: N
Neutral/Relationship Dependant: T.P.Neutral
Product Hierarchy Reference Level: Each
Common value to all product hierarchy: No
Type: N
Size: 3.2

Definition: Percentage of alcohol contained in the base unit trade item.

Examples: ‘12’

Business Rules:
Note: This requirement is handled through the FMCG Extension.
Sector specific extension. Percentage is implicit
4.0 Implementation Considerations and Concerns

This section includes Best Practices and Examples explaining how to best use this data model. It also includes implementation guides for a variety of the more complicated issues encountered when designing the standards outlined by this document. It also provides an overall review of the basic precepts used when developing this data model.

Basic precepts of this data model:

a) This model was designed with the intent of providing all industries with a generic template with which to build their own data model. EAN.UCC currently has identified 23 different industries which participate in its standards development and application processes. While it is recognized that each industry has different needs, this model attempts to provide a flexible data model framework, which covers what is common across industries and upon which these industries can append their own unique needs.

b) The data model assumes a base level of business transactions and agreements between buyer and seller, which then lead to an exchange of information deemed to be necessary for conducting normal business transactions. This set of information is herein called a data dictionary.

c) This model was developed with the understanding that there are three different types of attributes, as type relates to industry:

a. Core – these attributes are absolutely necessary to facilitate the accurate sharing of data sets between parties of all industries. The combination of these five attributes guarantees the uniqueness of that data set. The definition and use of these attributes is common to all industries. In this data model, the five core attributes are: GTIN of the trade item, the GLN of the information provider, the target market in which this data set is valid, a EAN.UCC external classification value, and a system generated product description (see below)

Product identification as a process is mandatory. A GTIN must be used. Party identification as a process is mandatory. A GLN must be used.

b. Extension – these attributes are shared among several industries. The definition for each attribute is agreed to by all industries. The determination of whether these attributes are mandatory or optional is made based on the business need of each industry. It is important to share the responsibility for maintenance of these attributes and to maintain a common definition across industries since the buyer receiving data may receive it from multiple industries. Where industries use an attribute in different ways, a new attribute must be developed. (e.g. size)

In addition to mandatory/optional, when industries build their own data models from this generic base, they may also choose to change the other conditions attached to each attribute as it is relevant to their industry.

b. Industry specific extension – these attributes are such that they are only relevant to one industry. The definition of these values is determined by this industry. If a buyer or seller does not deal in this trade item class, it is not expected that they build attributes related to this industry into their
Application notes – The complete data model for an industry is made up of a combination of these three types of attributes. It is expected that attributes may be added or deleted from the model in the future. Also, as more industries become involved in the EAN.UCC GSMP process, it is expected that more industry specific extensions will be created.

In most cases, the agreement reached by the two parties that will be communicating data will include only a portion of the data model. This is because this model is designed to capture all possible business needs of the industry. In many cases, the buyer will only require a subset of these attributes in order to conduct business in the manner that they are accustomed.
Key data attributes

This data model works off a basic principle. The entire set of data attributes assigned to a GTIN may vary depending on who provides the information, and in which target market the data is relevant.

Within the global data synchronization environment, the combination of three key attributes, GLN of information provider, GTIN of the trade item, and the Target Market identifies a unique set of values for the trade items’ attributes. This combination can also affect which attributes are communicated. The values of attributes can vary for a GTIN when GLN of information provider or Target market are changed.

Example – “orderingLeadTime” may vary depending on target market. (US delivery within 3 days, delivery within Belgium is less than 1 day)

Example – “cataloguePrice” may vary depending on the information provider (catalogue price equals $1.00 from manufacturer, but is $1.05 in the information set communicated by a distributor)

All variation must be compliant with GTIN allocation rules per the General EAN.UCC Specifications. Variations that do not comply will require a new GTIN.

As stated above, in addition possible variations in values for the same attribute, the list of attributes communicated may change based on these three keys. Changes in the information provider can change the list of attributes associated with a GTIN.

Example – Information provider A chooses to provide values for 50 attributes for a GTIN, while information provider B chooses to provide values for 100, seeing this as a competitive advantage.

The relevant target market can also affect the selection of attributes. Certain target markets will have legal requirements for some attributes, while other target markets will not.

Example – “dangerous goods” attributes are currently required in certain countries. Parties that do not operate in these countries will not be required to communicate these attributes to their customers.
4.1 Product hierarchy

There has been a long running debate within the EAN.UCC item project team regarding the application of a principle which states that if information about a product hierarchy is to be communicated, it is required that a GTIN be allotted to that level and the information only be attached to that GTIN. At the time this document was being finalized, this debate was still taking place. It is the intent of the Item group to present to the Align Data BRG a paper describing the current industry practices as they relate to hierarchy with the proper industry endorsement and representation.

This model is designed in conjunction with a widely accepted view of product containment hierarchy found in the commercial products industries. Attached is a chart describing the currently accepted definitions and guidelines for this hierarchy.

GTIN Hierarchy

Preface
- Eight discreet “levels” of GTIN Hierarchy have been identified.
• “tradeItemUnitDescriptor has been used as the field to describe the GTIN hierarchy level.

• Implementation with any level of automation will require the programs to map discreetly from each of these GTIN hierarchy layers. Each attribute has the potential for a different meaning depending on which layer it’s attached to. Each attribute may also vary in cardinality or condition depending on the ‘product type name’ of the GTIN.

• The following guidelines have been created, debated, practiced, reviewed, and endorsed by the UCCnet community over the last 3 years. The Guidelines Task Group, represented by over 60 individuals and participating companies has endorsed these Guidelines.

  o (MX) Mixed Mod: A “mixed mod” or “display ready pallet” that is not the normal ‘turn’ for ordering. May NOT have any parents. May have children (DS, CA, PK, EA) in multiple instances. Orderable: True / ConsumerUnit: False.

  o (PL) Pallet: A pallet of turn product. May NOT have any parents. May have children (DS, CA, PK, EA) in a single instance. Orderable: True or False / ConsumerUnit: False.

  o (DS) Display / Shipper: A display, a shipper. May have a “PL” parent. May have (CA or EA) children in multiple instances. Orderable: True / ConsumerUnit: True or False.

  o (CA) Case: The standard shipping unit level. May be contained in one or more (PL, MX, or DS). May contain children (PK or EA) in a single instance. Orderable: True or False / Consumable: True or False.

  o (PK) Pack / Innerpack: A 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). Multiple instances of a (EA) child are allowed. Multiple instances of (DS or CA) parents are allowed. Orderable: true or False / ConsumerUnit: True or False.

  o (EA) Each: The lowest level of the item hierarchy intended or labeled for individual retail sale. May not have any children. May have multiple instances of (PK, CA, DS, PL, or MX) parents. Orderable:True or False / ConsumerUnit:True.

  o Prepack/Assortment: Contains multiple components, each of which represents a unique consumer unit item by color and size. Includes “prepacks” and “setpacks.”

    ▪ Prepack: or standard assortment of trade items, each different item within the prepack will be assigned a GTIN maintaining the one-to-one relationship between 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. In addition, a separate, unique GTIN is assigned to each
orderable prepack. This GTIN is not scanned by the retailer at the
Point-of-Sale. For example, the NRF size code for the orderable
prepack GTIN will be assigned in the 90001-91999 range,
reserved for prepacks and setpacks. A valid NRF color code will
be assigned to the GTIN when all trade items are of the same
color in the prepack; otherwise, the NRF color code 999-assorted
is assigned. The 90001-91999 size code assignment denotes
prepacks whether the prepack is assorted by size only, color only,
or both size and color. Different prepacks of trade items are
assigned different GTINs when either the component item or
quantity contents of the prepacks are different.

- **Setpack**: 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. This GTIN is also
scannable at Point-of-Sale. For example, the NRF size code for
the orderable setpack GTIN will be assigned in the 90001-91999
range, reserved for prepacks and setpacks. A valid NRF color
code will be assigned to the setpack GTIN when all trade items
are of the same color in the setpack, otherwise the NRF color
code 999-assorted is assigned. Different setpacks are assigned
different GTINs when either the trade item or quantity contents are
different.

- **Multipack**: is 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. A multipack is assigned a GTIN that is different from the GTIN that
may be assigned to the individual trade items. Generally components of a
multipack are not marked with individual trade item GTINs. Each different
multipack of the same trade items (e.g., three-pack socks versus six-pack
socks) must have a different GTIN assigned. Each different multipack
GTIN must also have its own trade item/color ID/size ID.

Note: The hierarchy levels Pre-pack/Assortment and Multipack are not included in the
next table, as the discussions of hierarchy were not finalized.
Attributes in the data model are designed such that they can and are used to describe the same value for any product hierarchy level. "Height" for example, means the height of a consumer unit, case or pallet, depending on the product type being described by the GTIN. See Examples in the tables below:

<table>
<thead>
<tr>
<th>Product type</th>
<th>Description</th>
<th>Parents</th>
<th>Parents Instance</th>
<th>Children</th>
<th>Children Instance</th>
<th>Orderable</th>
<th>Consumable</th>
</tr>
</thead>
<tbody>
<tr>
<td>(MX) Mixed Module</td>
<td>A “mixed mod” or “display ready pallet” that is not the normal ‘turn’ for ordering</td>
<td>None</td>
<td>N/A</td>
<td>DS, CA, PK, EA</td>
<td>Multiple</td>
<td>True</td>
<td>False</td>
</tr>
<tr>
<td>(PL) Pallet</td>
<td>A pallet of turn product</td>
<td>None</td>
<td>N/A</td>
<td>DS, CA, PK, EA</td>
<td>Single</td>
<td>True or False</td>
<td>False</td>
</tr>
<tr>
<td>(DS) Display/Shipper</td>
<td>A display or shipper</td>
<td>PL</td>
<td></td>
<td>CA, EA</td>
<td>Single/ Multiple</td>
<td>True</td>
<td>True or False</td>
</tr>
<tr>
<td>(CA) Case</td>
<td>The standard shipping unit level.</td>
<td>PL, MX, DS</td>
<td>Multiple</td>
<td>PK, EA</td>
<td>Single/ Multiple</td>
<td>True or False</td>
<td>True or False</td>
</tr>
<tr>
<td>(PK) Pack / Innerpack</td>
<td>A logistical unit between case and each</td>
<td>DS, CA</td>
<td>Multiple</td>
<td>EA</td>
<td>Single/ Multiple</td>
<td>True or False</td>
<td>True or False</td>
</tr>
<tr>
<td>(EA) Each</td>
<td>The lowest level of the item hierarchy intended or labeled for individual resale</td>
<td>PK, CA, DS, PL, MX</td>
<td>Multiple</td>
<td>None</td>
<td>N/A</td>
<td>True or False</td>
<td>True</td>
</tr>
<tr>
<td>Simple Product</td>
<td>Description</td>
<td>GTIN</td>
<td>Next Lower Level GTIN</td>
<td>Quantity Next Lower Level GTINs</td>
<td>Quantity of children (number of different GTIN)</td>
<td>Quantity Pack</td>
<td>Quantity in Each</td>
</tr>
<tr>
<td>----------------</td>
<td>------------------------------</td>
<td>-------------</td>
<td>-----------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------------------</td>
<td>---------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Pallet (PL)</td>
<td>60 cases</td>
<td>00123456 33333c</td>
<td>00123456 22222c</td>
<td>60</td>
<td>1</td>
<td>60</td>
<td>X</td>
</tr>
<tr>
<td>Case (CA)</td>
<td>2 of Inner Packs</td>
<td>00123456 22222c</td>
<td>00123456 11111c</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>X</td>
</tr>
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## Description

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The next page shows a table which lists all the attributes contained in this data model and notes at which product hierarchy level they are relevant.
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**M/O/D Status Key**
- M=Mandatory
- O=Optional
- D=Dependent

**Common Status Key**
- Y=Attribute value is the same
- N=Attribute value can be different
Item Containment:

Refer to Class Diagram for Trade Item in the UML section where item hierarchy is handled.

Item containment provides a method of identifying the contents of a GTIN that is a packaging hierarchy rather than a consumer unit. This can occur multiple times depending upon the number of levels in the hierarchy. All components of each potential level of packaging must already be defined in order to be used in Item Containment. Each level has to be identified with a product identifier and each level defines the containment (GTIN) of the next level.

It is recommended that only GTINs be used in Item containment.

4.2 Product Classification

The attribute structure for classification included in this document reflects the learnings from the work that the GCI Product Classification workgroup is conducting at this point in time and applies to the Food, Beverage and Tobacco (grocery) sector. Potential modifications to the codification structure may result in the inclusion in the Data Sync Trade Item model of additional attributes coming from other industry sectors (e.g. General Merchandise). These potential modifications will be considered after the EAN.UCC's final agreement on a global classification schema is announced.

Global EAN.UCC product classification – Examples

At category level:
classificationCategoryCode: 10000222

classificationCategoryName: Juice Drinks (Perishable)

classificationCategoryDefinition: “Includes any products that can be described/observed as a perishable non carbonated beverage, that has some fruit or vegetable juice content but contain other ingredients such as water, sugar, colorings and flavorings. These products have been treated or packaged in such a way as to extend their consumable life. Includes products that may be described as Nectar, Fruit Drink or Juice Drink and available in single flavors such as carrot, tomato, orange, apple etc or they may be blends of more than one such as orange & apricot, cranberry & raspberry etc. Excludes products such as Frozen and Shelf Stable Juice Drinks, Juice, Syrups, Juice Concentrate, Flavored Mixers, Mineral Water.”

At attribute type level:
classificationAttributeTypeCode: 20000045

classificationAttributeTypeName:
CONSUMER LIFESTAGE

classificationAttributeTypeDefinition:
"Indicates the broad period or stage (e.g. Adult, Child) in the consumer's life at which the product is considered to be suitable/appropriate for the intended consumer."

At attribute value level:
classificationAttributeValueCode classificationAttributeValueName
147 → ADULT
167 → ALL AGES
245 → BABY
246 → BABY & CHILD
644 → CHILD
105 → UNCLASSIFIED
106 → UNIDENTIFIED

N.B.: Only one possible attribute value per attribute type.

4.3 Product Orientation

Change Request (CR) 02-000102 was submitted to the EAN.UCC GSMP process and relates to how to measure the physical dimension of a product. At the July 10, 2002 conference call of the Align BRG, this Change Request was reviewed and the BRG agreed to forward to the Physical Technical Requirements Group (PTRG) for the definition of the physical requirements. This work is being developed by a subgroup of PTRG and will go through ballot cycles, which are estimated to conclude sometime in the first quarter of 2003. The work resulting from PTRG will go to the Align Data BRG which will determine the impact of the output on the Item work.

Product orientation principles developed by the PTRG will affect the following attributes: width, depth, and height.

4.4 Language (Reference Appendix 13 and Appendix 17)

EAN.UCC currently has the following classes related to Language.

Description Class: it contains two attributes, one is language and the other is text. Text Description Class: it contains one or more Description Classes. It allows for multiple combinations of language and text

Long Description Class: it contains two attributes, one is language and the other is long text.
Long Text Description Class: it contains one or more Long Description Classes. It allows for multiple combinations of language and long text.
These classes allow users to fill in the language and the text. The language for the text is identified using a two character code from the ISO 639 language code list.

4.5 Currency (Reference Appendix 12)
EAN.UCC currently has two classes related to Monetary Amount. One is ‘Amount’ and the other is ‘MonetaryAmount’.

Monetary Amount allows for multiple currencies and value or Amount. Amount allows for one currency and value.

These classes allow users to fill in the currency ISO Code and the value. The currency for the value is identified using a code from the ISO4217 currency code list.

4.6 Unit of Measure (Reference Appendix 14)

The following describes how unit of measure is handled in the data model.

EAN.UCC currently has two classes related to measurement. One is ‘Measurement class’ and the other is ‘Measurement Value’.


These classes allow the users to fill in the unit of measure and the float (allows decimal value).
Example: 100 degree Fahrenheit or 38 degree Celsius.
100°F is equal to: Unit Of Measure will be FAH and Float will be 100.00
38°C is equal to: Unit Of Measure will be CEL and Float will be 38.00

There was no need to create another attribute for unit of measure because it is fulfilled by the use of the Measurement class because the Measurement class is reused.

There is multiple and numerous possible unit of measures. The EAN.UCC system refers to the UN/Cefact #20 list for the possible unit of measure. The unit of measure is not broken down into categories of UOM such as “time UOM, Weight UOM, dimensional UOM, or net content UOM. Its a list of all the possible units of measure.

4.7 Product Description

Product Description is one of the four attributes designated as being mandatory (within the Global Data Synchronization process) for uniquely identifying a set of data associated with a GTIN. The product description field which is considered core, “tradeItemDescription” is automatically generated by the model from the four attributes listed below. If an attribute is left blank or not defined, the product description exists only of attributes populated. While two of the four attributes are designated as optional, since they may or may not exist, it is widely recognized that most information providers will seek to provide values for all of these attributes so as to provide a product description that is as accurate as possible. The Product Description attributes replaces the Item Description Long and Medium found in the previous GCI model.

The structure for the product description is:

- Brand..............................................MANDATORY
Sub Brand ...............................OPTIONAL  
Functional Name .....................MANDATORY  
Variant .................................OPTIONAL

Examples:

- ACME Regular Salad Dressing Italian
- ACME Regular Salad Dressing Ranch
- Seven Islands Reduced Cal Salad Dressing Ranch
- Seven Islands Reduced Cal Salad Dressing Italian
- Unbranded Plants Tropical
- Unbranded Plants Lily

For more accurate product description, several new attributes have been added to the model. These are in most cases optional.

- productRange
- brandName
- subBrand
- functionalName (formerly known as Product Name)
- tradeItemFormDescription
- variant
- descriptive Size

Fields were included with the recognition that the great majority of categories have not yet had classification schemas deployed at the time of this document’s publication.

4.8 Code Lists

4.8.1 Code Lists
This section presents the issues concerning code lists that users have identified in implementing the current EAN•UCC Trade Item Data Synchronization Standards.

It would be better for all communities to adopt one set of code lists now. The analysis that resulted in these code list recommendations took into account all definitions, examples, and business rules contained in the Trade Item BRD. Code lists from EANCOM, UNCEFACT, ISO, ANSI X12, VICS EDI, and UCS/WINS were also examined. The goal was to develop code lists that reflected the intent of the original developers of the Trade Item.

Note these code lists are documentation only. It is envisioned these code list will be added to as new requirements are introduced. It is not an exclusive or all-inclusive list but this is a living list.

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.

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</table>

EAN•UCC has three choices for code values:
Reference an external source like ISO.
Maintain a code list unique to the EAN•UCC system.
Maintain a code list based on an external code list.

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

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

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<td>DM</td>
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<tr>
<td>CE</td>
<td>Degrees Celsius (Centigrade)</td>
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<td>FA</td>
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<td>Dollars, U.S.</td>
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<td>Layer(s)</td>
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<td>Quart, Dry</td>
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<td>Sizing Factor</td>
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<td>SY</td>
<td>Square Yard</td>
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<td>15</td>
<td>Stick</td>
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<td>TK</td>
<td>Tank</td>
</tr>
<tr>
<td>TM</td>
<td>Thousand Feet</td>
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<tr>
<td>TE</td>
<td>Tote</td>
</tr>
<tr>
<td>NT</td>
<td>Trailer</td>
</tr>
<tr>
<td>TY</td>
<td>Tray</td>
</tr>
<tr>
<td>Z25</td>
<td>Usage (e.g. in laundry, 24 usage)</td>
</tr>
<tr>
<td>UN</td>
<td>Unit</td>
</tr>
<tr>
<td>YD</td>
<td>Yard</td>
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### Additional Classification Agency Name

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<td>UDEX, LTD</td>
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<td>2</td>
<td>IRI</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>AC Nielsen</td>
</tr>
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<td></td>
<td>4</td>
<td>ECCC Interim Class Codes</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>UNSPSC - Electronic Commerce Code Management Association</td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Comments</td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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<tr>
<td>ColorCodeListAgency</td>
<td><strong>Part of TradeItemColorDescription class</strong>  It is String 1 to 3 characters.  This should be an EAN*UCC maintained code List.  Values should be:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 National Retail Federation – Standard Color &amp; Size Codes  This handbook provides guidelines for use in retailers' and vendors' merchandising and communications systems.  <a href="http://www.nrf.com">http://www.nrf.com</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 PANTONE MATCHING SYSTEM  The definitive international reference for selecting, specifying, matching and controlling ink colors. The PANTONE formula guide, a three-guide set consisting of 1,114 solid PANTONE Colors on coated, uncoated and matte stock, shows corresponding printing ink formulas for each color, and the three-book set of solid chips provides coated, uncoated and matte perforated tear-out chips that can be used for quality control.  Pantone® Inc  <a href="http://www.pantone.com">http://www.pantone.com</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 PANTONE Process Color System®  Provides a comprehensive palette of more than 3,000 colors achievable in four-color (CMYK) process printing. The PANTONE solid to process guide compares a solid PANTONE Color to the closest possible match in CMYK four-color process that can be achieved on a computer monitor, output device or printing press. Other PANTONE Color Reference Guides for the graphic arts include metallics, pastels, tints, duotones, film and foil.  The PANTONE Hexachrome® Color System  Pantone® Inc  <a href="http://www.pantone.com">http://www.pantone.com</a></td>
<td></td>
</tr>
</tbody>
</table>
## Color Code List Agency

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

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<thead>
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<th>Comments</th>
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<tr>
<td>sizeCodeListAgency</td>
<td>Part of TradeItemSizeDescription class. It is a String 1 to 3 characters. This should be an EAN*UCC maintained code list. Values should be...</td>
</tr>
<tr>
<td>Code 1</td>
<td>National Retail Federation – Standard Color &amp; Size Codes. This handbook provides guidelines for use in retailers’ and vendors’ merchandising and communications systems.</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.nrf.com">http://www.nrf.com</a></td>
</tr>
<tr>
<td>Code 2</td>
<td>Assigned by Buyer</td>
</tr>
<tr>
<td>Code 3</td>
<td>Assigned by Seller</td>
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### Organic Trade Item Code

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<th>Comments</th>
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<tbody>
<tr>
<td>organicTradeItemCode</td>
<td>Part of OrganicTradeItemCharacteristics class. It is a string of 1 to 35 characters. This should be an EAN/UCC maintained code list. Values should be (as specified in the BRD)</td>
</tr>
<tr>
<td>1</td>
<td>100% Organic</td>
</tr>
<tr>
<td>2</td>
<td>Organic (at least 95% by weight)</td>
</tr>
<tr>
<td>3</td>
<td>Made with organic ingredients (at least 70% by weight)</td>
</tr>
<tr>
<td>4</td>
<td>Some organic ingredients (less than 70% by weight)</td>
</tr>
<tr>
<td>5</td>
<td>Not Organic</td>
</tr>
<tr>
<td>6</td>
<td>In conversion (products presently in conversion to the organic standard)</td>
</tr>
<tr>
<td>7</td>
<td>Bio Dynamic (a cousin to the organic system)</td>
</tr>
<tr>
<td>8</td>
<td>Disqualified (GTINs that violate organic principles, with attributes such as isTradeItemGeneticallyModified or isTradeItemIrradiated being true)</td>
</tr>
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---

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## Organic Claim Agency

<table>
<thead>
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<th>Comments</th>
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<td>organicClaimAgency</td>
<td>Part of OrganicTradeItemCharacteristics class. It is String 1 to 35 characters. It is still not clear what the usage or intended usage is. This should be an EAN*UCC maintained code list. Values should be</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Code</strong></td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>3</td>
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### Packaging Type Code

<table>
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<tr>
<th>Attribute Name</th>
<th>Code</th>
<th>Code Description</th>
</tr>
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<tbody>
<tr>
<td>packagingTypeCode</td>
<td></td>
<td>Part of PackagingType class. It is String 1 to 3 characters. The BRD states “List of authorized code values based on UN-ECE 21 Recommendations”, however the attribute with code list table suggest a merger of ANSI DE 103 and EANCOM DE 7065. It would be a very large list to combine DE103 and DE7065 because DE103 is a two-part list. Recommend using ANSI DE 103 Part 1 – Packaging Form and making it a EAN•UCC maintained code list. This seems to be more in-line with the intent of this attribute and packagingMaterialCode.</td>
</tr>
<tr>
<td>AAA</td>
<td>Pallet, Returnable</td>
<td></td>
</tr>
<tr>
<td>AAB</td>
<td>Splash Blend</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>AE</td>
<td>Aerosol</td>
<td></td>
</tr>
<tr>
<td>AMM</td>
<td>Ammo Pack</td>
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</tr>
<tr>
<td>AMP</td>
<td>Ampoule</td>
<td></td>
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<tr>
<td>AT</td>
<td>Atomizer</td>
<td></td>
</tr>
<tr>
<td>ATH</td>
<td>Attachment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>BAG</td>
<td>Bag</td>
<td></td>
</tr>
<tr>
<td>BAL</td>
<td>Bale</td>
<td></td>
</tr>
<tr>
<td>BBL</td>
<td>Barrel</td>
<td></td>
</tr>
<tr>
<td>BRC</td>
<td>Bracing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Material or devices used to hold articles or sections of loads in position to prevent shifting during transportation</td>
<td></td>
</tr>
<tr>
<td>BDG</td>
<td>Banding</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Something that binds, ties, or encircles the package/container to secure and maintain unit integrity</td>
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<tr>
<td>BDL</td>
<td>Bundle</td>
<td></td>
</tr>
<tr>
<td>BEM</td>
<td>Beam</td>
<td></td>
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<tr>
<td>BIC</td>
<td>Bing Chest</td>
<td></td>
</tr>
<tr>
<td>BIN</td>
<td>Bin</td>
<td></td>
</tr>
<tr>
<td>BLK</td>
<td>Bulk</td>
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</tr>
<tr>
<td>Code</td>
<td>Code Description</td>
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<tr>
<td>BLT</td>
<td>Belting</td>
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<tr>
<td></td>
<td>As pertains to containers and shipping devices, a method of securing the contents</td>
<td></td>
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<tr>
<td></td>
<td>to the conveyance device (or securing components of the shipping device to each</td>
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<tr>
<td></td>
<td>other) using one or more bands of flexible material having high-tensile strength</td>
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<tr>
<td></td>
<td>and a buckle or ratchet device for removing slack and maintaining tension</td>
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<td>Blister Pack</td>
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<tr>
<td>BOT</td>
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<td>Box</td>
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<tr>
<td>BRG</td>
<td>Barge</td>
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<tr>
<td>BSK</td>
<td>Basket or hamper</td>
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<tr>
<td>BXI</td>
<td>Box, with inner container</td>
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<tr>
<td>BXT</td>
<td>Bucket</td>
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<tr>
<td>CAB</td>
<td>Cabinet</td>
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<td>CAG</td>
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<td>CAN</td>
<td>Can</td>
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<tr>
<td>CNA</td>
<td>Household Goods Container, Wood</td>
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<td>Carrier</td>
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<td>CAS</td>
<td>Case</td>
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<td>Containers of Bulk Cargo</td>
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<td>CBY</td>
<td>Carboy</td>
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<td>CHS</td>
<td>Chest</td>
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<td>CLD</td>
<td>Car Load, Rail</td>
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<td>CMS</td>
<td>Clamshell</td>
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<tr>
<td>CNB</td>
<td>Container, MAC-ISO, LT. WGT. 8x8x20 Foot Air</td>
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<td>CNC</td>
<td>Container, Navy Cargo Transporter</td>
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<tr>
<td>CND</td>
<td>Container, Commercial Highway Lift</td>
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</tr>
<tr>
<td>CNE</td>
<td>Container, Engine</td>
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<tr>
<td>CNF</td>
<td>Container, Multi-walled, Secured to Warehouse Pallet</td>
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<td>CNT</td>
<td>Container</td>
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</tr>
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<td>COL</td>
<td>Coil</td>
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</tr>
<tr>
<td>COR</td>
<td>Core</td>
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</tr>
<tr>
<td>CRD</td>
<td>Cradle</td>
<td></td>
</tr>
<tr>
<td>CRF</td>
<td>Corner Reinforcement</td>
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</tr>
<tr>
<td></td>
<td>Usually in boxes or crates, additional material or components attached to</td>
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</tr>
<tr>
<td></td>
<td>adjacent panels to add support or prevent crushing or separation</td>
<td></td>
</tr>
<tr>
<td>Packaging Type Code</td>
<td>Code</td>
<td>Code Description</td>
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<td>Crate</td>
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<td>CSK</td>
<td>Cask</td>
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<td>CTN</td>
<td>Carton</td>
<td></td>
</tr>
<tr>
<td>CX2</td>
<td>CONEX</td>
<td>A reusable container for shipment of cargo</td>
</tr>
<tr>
<td>CU</td>
<td>Cup</td>
<td></td>
</tr>
<tr>
<td>CYL</td>
<td>Cylinder</td>
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<tr>
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<td>Dry Bulk</td>
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<tr>
<td>DRK</td>
<td>Double-length Rack</td>
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<tr>
<td>DRM</td>
<td>Drum</td>
<td></td>
</tr>
<tr>
<td>DSK</td>
<td>Double-length Skid</td>
<td></td>
</tr>
<tr>
<td>DTB</td>
<td>Double-length Tote Bin</td>
<td></td>
</tr>
<tr>
<td>DUF</td>
<td>Duffelbag</td>
<td></td>
</tr>
<tr>
<td>EGG</td>
<td>Egg Crating</td>
<td>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</td>
</tr>
<tr>
<td>ENV</td>
<td>Envelope</td>
<td></td>
</tr>
<tr>
<td>EPR</td>
<td>Edge Protection</td>
<td>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</td>
</tr>
<tr>
<td>FIR</td>
<td>Firkin</td>
<td></td>
</tr>
<tr>
<td>FLO</td>
<td>Flo-bin</td>
<td></td>
</tr>
<tr>
<td>FRM</td>
<td>Frame</td>
<td></td>
</tr>
<tr>
<td>FSK</td>
<td>Flask</td>
<td></td>
</tr>
<tr>
<td>FWR</td>
<td>Forward Reel</td>
<td></td>
</tr>
<tr>
<td>HPR</td>
<td>Hamper</td>
<td></td>
</tr>
<tr>
<td>HPT</td>
<td>Hopper Truck</td>
<td></td>
</tr>
<tr>
<td>HRB</td>
<td>On Hanger or Rack in Boxes</td>
<td></td>
</tr>
<tr>
<td>HRK</td>
<td>Half-Standard Rack</td>
<td></td>
</tr>
<tr>
<td>HTB</td>
<td>Half-Standard Tote Bin</td>
<td></td>
</tr>
<tr>
<td>INT</td>
<td>Intermediate Container</td>
<td></td>
</tr>
<tr>
<td>JAR</td>
<td>Jar</td>
<td></td>
</tr>
<tr>
<td>KEg</td>
<td>Keg</td>
<td></td>
</tr>
<tr>
<td>KIT</td>
<td>Kit</td>
<td></td>
</tr>
<tr>
<td>KRR</td>
<td>Knockdown Rack</td>
<td></td>
</tr>
<tr>
<td>KTB</td>
<td>Knockdown Tote Bin</td>
<td></td>
</tr>
</tbody>
</table>
# Packaging Type Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAB</td>
<td>Label Tag</td>
<td></td>
</tr>
<tr>
<td>LID</td>
<td>Lip/Top</td>
<td>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</td>
</tr>
<tr>
<td>LIF</td>
<td>Lifts</td>
<td></td>
</tr>
<tr>
<td>LNR</td>
<td>Liners</td>
<td>Any material that separates a product within a container from the basic walls of the container</td>
</tr>
<tr>
<td>LOG</td>
<td>Log</td>
<td></td>
</tr>
<tr>
<td>LSE</td>
<td>Loose</td>
<td></td>
</tr>
<tr>
<td>LUG</td>
<td>Lug</td>
<td></td>
</tr>
<tr>
<td>LVN</td>
<td>Lift Van</td>
<td></td>
</tr>
<tr>
<td>MIX</td>
<td>Mixed Container Types</td>
<td>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)</td>
</tr>
<tr>
<td>ML2</td>
<td>MILVAN</td>
<td>A military owned demountable container that conforms to US and international standards and operates in a centrally controlled fleet for movement of military cargo</td>
</tr>
<tr>
<td>MPE</td>
<td>Multipack</td>
<td></td>
</tr>
<tr>
<td>MRP</td>
<td>Multi-Roll Pack</td>
<td></td>
</tr>
<tr>
<td>MS2</td>
<td>MSCVAN</td>
<td>A commercial (leased) or Government-owned shipping container controlled by the Military Sealift Command.</td>
</tr>
<tr>
<td>MXD</td>
<td>Mixed</td>
<td></td>
</tr>
<tr>
<td>NOL</td>
<td>Noil</td>
<td></td>
</tr>
<tr>
<td>PA</td>
<td>Packet</td>
<td></td>
</tr>
<tr>
<td>PAF</td>
<td>Pallet – 4 Way</td>
<td>A pallet that permits entry of handling equipment on each of its four sides</td>
</tr>
<tr>
<td>PAL</td>
<td>Pail</td>
<td></td>
</tr>
<tr>
<td>PAT</td>
<td>Pallet - 2 Way</td>
<td>A pallet that permits entry of handling equipment on opposing two of its four sides</td>
</tr>
<tr>
<td>PCK</td>
<td>Packed - not otherwise specified</td>
<td></td>
</tr>
<tr>
<td>PCS</td>
<td>Pieces</td>
<td></td>
</tr>
<tr>
<td>PIR</td>
<td>Pirns</td>
<td></td>
</tr>
<tr>
<td>PKG</td>
<td>Package</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Code Description</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>PLC</td>
<td>Primary Lift Container&lt;br&gt;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; &quot;primary&quot; indicates preferred or mandatory</td>
<td></td>
</tr>
<tr>
<td>PLF</td>
<td>Platform</td>
<td></td>
</tr>
<tr>
<td>PLN</td>
<td>Pipeline</td>
<td></td>
</tr>
<tr>
<td>PLT</td>
<td>Pallet</td>
<td></td>
</tr>
<tr>
<td>PO</td>
<td>Pouch</td>
<td></td>
</tr>
<tr>
<td>POV</td>
<td>Private Vehicle</td>
<td></td>
</tr>
<tr>
<td>PRK</td>
<td>Pipe Rack</td>
<td></td>
</tr>
<tr>
<td>PRT</td>
<td>Partitioning&lt;br&gt;The proceeds of applying separators or dividers</td>
<td></td>
</tr>
<tr>
<td>PUN</td>
<td>Punnet</td>
<td></td>
</tr>
<tr>
<td>PWT</td>
<td>Plastic-Wrapped Tray</td>
<td></td>
</tr>
<tr>
<td>RAL</td>
<td>Rail (Semiconductor)</td>
<td></td>
</tr>
<tr>
<td>RCK</td>
<td>Rack</td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Reel</td>
<td></td>
</tr>
<tr>
<td>RFT</td>
<td>Reinforcement&lt;br&gt;In containers and shipping devices, a component (usually temporary) added to a container for a particular application to lend additional support under severe applications</td>
<td></td>
</tr>
<tr>
<td>ROL</td>
<td>Roll</td>
<td></td>
</tr>
<tr>
<td>RVR</td>
<td>Reverse Reel</td>
<td></td>
</tr>
<tr>
<td>SAK</td>
<td>Sack</td>
<td></td>
</tr>
<tr>
<td>SCS</td>
<td>Suitcase</td>
<td></td>
</tr>
<tr>
<td>SHK</td>
<td>Shook</td>
<td></td>
</tr>
<tr>
<td>SHT</td>
<td>Sheet&lt;br&gt;A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package</td>
<td></td>
</tr>
<tr>
<td>SKD</td>
<td>Skid</td>
<td></td>
</tr>
<tr>
<td>SKE</td>
<td>Skid, elevating or lift truck</td>
<td></td>
</tr>
<tr>
<td>SLP</td>
<td>Slip Sheet&lt;br&gt;Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation</td>
<td></td>
</tr>
<tr>
<td>SLV</td>
<td>Sleeve</td>
<td></td>
</tr>
<tr>
<td>SPI</td>
<td>Spin Cylinders</td>
<td></td>
</tr>
<tr>
<td>SPL</td>
<td>Spool</td>
<td></td>
</tr>
</tbody>
</table>
### Packaging Type Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPR</td>
<td>Separator/Divider&lt;br&gt;In packaging, any material inserted between tiers or layers of articles to prevent contact and provide protection</td>
</tr>
<tr>
<td>SRW</td>
<td>Shrink Wrap&lt;br&gt;In packaging, a method of securing a unit load by placing a large &quot;bag&quot; of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents</td>
</tr>
<tr>
<td>STW</td>
<td>Stretch Wrap&lt;br&gt;In packaging, a high-tensile plastic film, stretched and wrapped repeatedly around a unitized load to secure and maintain unit integrity</td>
</tr>
<tr>
<td>SV2</td>
<td>SEAVAN&lt;br&gt;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</td>
</tr>
<tr>
<td>TBE</td>
<td>Tube</td>
</tr>
<tr>
<td>TBN</td>
<td>Tote Bin</td>
</tr>
<tr>
<td>TKR</td>
<td>Tank Car</td>
</tr>
<tr>
<td>TKT</td>
<td>Tank Truck</td>
</tr>
<tr>
<td>TLD</td>
<td>Intermodal Trailer/Container Load (Rail)</td>
</tr>
<tr>
<td>TNK</td>
<td>Tank</td>
</tr>
<tr>
<td>TRC</td>
<td>Tierce</td>
</tr>
<tr>
<td>TRK</td>
<td>Trunk and Chest</td>
</tr>
<tr>
<td>TRU</td>
<td>Truck</td>
</tr>
<tr>
<td>TRY</td>
<td>Tray</td>
</tr>
<tr>
<td>TSS</td>
<td>Trunk, Salesmen Sample</td>
</tr>
<tr>
<td>TUB</td>
<td>Tub</td>
</tr>
<tr>
<td>UNP</td>
<td>Unpacked</td>
</tr>
<tr>
<td>UNT</td>
<td>Unit</td>
</tr>
<tr>
<td>UVQ</td>
<td>Wrapped in Plastic</td>
</tr>
<tr>
<td>VEH</td>
<td>Vehicles</td>
</tr>
<tr>
<td>VIL</td>
<td>Vial</td>
</tr>
<tr>
<td>VOC</td>
<td>Vehicle in Operating Condition</td>
</tr>
<tr>
<td>VPK</td>
<td>Van Pack</td>
</tr>
<tr>
<td>VP</td>
<td>Vacuum Packed</td>
</tr>
<tr>
<td>WHE</td>
<td>On Own Wheel</td>
</tr>
<tr>
<td>WLC</td>
<td>Wheeled Carrier</td>
</tr>
<tr>
<td>WRP</td>
<td>Wrapped</td>
</tr>
</tbody>
</table>
Packaging Material Code

Packaging Material Code List Maintenance Agency

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

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>packagingTermsAndConditions</td>
<td></td>
<td>Part of PackagingMaterialType class. It is String 1 to 3 characters. The BRD states authorized values based on EANCOM 7073, X12 DE102 and X12 DE399. The following list represents DE 7073 and DE399; DE102 does not apply. This should be an EAN*UCC maintained code List. Values should be:</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Packaging cost paid by supplier</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The cost of packaging is paid by the supplier</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Packaging cost paid by recipient</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The cost of packaging is paid by the recipient</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Packaging cost not charged (returnable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>There is no charge for packaging because it is returnable.</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Safe return deposit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A deposit paid to guarantee the safe return of the package.</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Not reusable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The package is not reusable. The equipment may only be used once and is not reusable for the purpose for which it was designed</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Package exchangeable at the point of delivery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The package may be exchanged at the point of delivery.</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>Repack in</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying that goods should be repacked from the identified package.</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>Unpack from</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying that goods should be unpacked from the identified package.</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>Pack in</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Code identifying that goods should be packed from the identified package.</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>Rented</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The package has been/will be rented from a rental agency (e.g. CHEP pallets).</td>
</tr>
<tr>
<td>11</td>
<td>11</td>
<td>Labelled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The package is labelled</td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Code</td>
<td>Code Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>palletTypeCode</td>
<td>1</td>
<td>Soft Wood</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Aluminum</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>As Specified by the Department of Transportation (DOT)</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Hard Wood</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Metal</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Steel</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>Wood</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>Slip sheet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Typically cardboard or plastic sheets used to hold product for storage or transportation</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Pallet ISO 0 - 1/2 EURO Pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard pallet with dimensions 80 X 60 cm.</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>Pallet ISO 1 - 1/1 EURO Pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard pallet with dimensions 80 X 120 cm.</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>Pallet ISO 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard pallet with dimensions 100 X 120 cm.</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>1/4 EURO Pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard pallet with dimensions 60 X 40 cm.</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>1/8 EURO Pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard pallet with dimensions 40 X 30 cm.</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>Synthetic pallet ISO 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A standard pallet with standard dimensions 80*120cm made of a synthetic material for hygienic reasons.</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>Synthetic pallet ISO 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A standard pallet with standard dimensions 100*120cm made of a synthetic material for hygienic reasons.</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>Wholesaler pallet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pallet provided by the wholesaler</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Pallet 80 X 100 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pallet with dimensions 80 X 100 cm</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>Pallet 60 X 100 cm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pallet with dimensions 60 X 100 cm</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>Pallet, modular, collars 80cms * 100cms</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>Pallet, modular, collars 80cms * 120cms</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>CHEP Pallet 40 X 60 cm</td>
</tr>
<tr>
<td></td>
<td>23</td>
<td>CHEP Pallet 80 X 120 cm</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>CHEP Pallet 100 X 120 cm</td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Comments</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Attribute Name: `palletTermsAndConditions`

<table>
<thead>
<tr>
<th>Code</th>
<th>Code Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No Exchange / No Return Pallet</td>
</tr>
<tr>
<td>2</td>
<td>Exchange Pallets</td>
</tr>
<tr>
<td>3</td>
<td>Return Pallets</td>
</tr>
<tr>
<td>4</td>
<td>Pallets to be Purchased by Customer</td>
</tr>
</tbody>
</table>
| 5    | Pallet – Third Party Exchange  
A pallet exchange program where a third party rents pallets for internal or external use. |
| 6    | One-way pallet  
Pallet need not be returned to the point of expedition. |
| 7    | Returnable pallet  
Pallet must be returned to the point of expedition. |
## EAN•UCC Packaging Material Codes

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Code</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>packagingMaterialCode</td>
<td></td>
<td>The following is the two-character code list to be used with element packagingMaterialCode when packagingMaterialCodeListMaintenanceAgency contains a value of “E”.</td>
</tr>
<tr>
<td>01</td>
<td>Aluminium</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Hard Wood</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>As Specified by the DOT</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Soft Wood</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>Burlap</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Chemically Hardened Fibre</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Cloth</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Cloth Top</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Cloth or Fabric</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Compressed</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Corrugated or Solid</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Double-wall Paper</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Fibre</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Fibre (Paperboard)</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Fiberboard</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Fiberboard Metal</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Glass</td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>In Inner Containers</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Wire/Cord</td>
<td>Something that binds, ties, or encircles the package/container to secure and maintain unit integrity</td>
</tr>
<tr>
<td>49</td>
<td>Insulated</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Steel - Vinyl Coated</td>
<td>Steel that has been covered with a plastic material</td>
</tr>
<tr>
<td>51</td>
<td>Wire Mesh</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Iron or Steel</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>Jumbo</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Special Jumbo</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Lead</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>Metal</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>Metal Cans</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Moisture Resistant</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>Molded Plastic</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>Multiple-wall Paper (2 or more walls)</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>Multiple-wall Paper (3 or more walls)</td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>Not Otherwise Specified</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Paper – VCI</td>
<td>Water-resistant paper that is treated by the addition of materials to provide resistance to damage or deterioration by water in liquid form</td>
</tr>
<tr>
<td>73</td>
<td>Other than Glass</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Other than Metal or Plastic Tubes, or Glass</td>
<td></td>
</tr>
<tr>
<td>Attribute Name</td>
<td>Comments</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Code 75</td>
<td>Plastic - Vacuum Formed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packaging material that is formed by heating plastic sheet and drawing it against the mold surface</td>
<td></td>
</tr>
<tr>
<td></td>
<td>by evacuating the air between the sheet and the mold</td>
<td></td>
</tr>
<tr>
<td>Code 76</td>
<td>Paper</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic - Structural Foam</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A method of manufacturing containers and shipping devices by mixing plastic resins with a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>foaming agent, heating it and injecting the mix into a two-piece machined aluminum mold</td>
<td></td>
</tr>
<tr>
<td>Code 77</td>
<td>Plastic - Injection Molded</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Packaging material that is formed by melting the material and then forcing it under pressure into</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a cavity of a closed mold</td>
<td></td>
</tr>
<tr>
<td>Code 78</td>
<td>Plastic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic – Virgin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic in the form of pellets, granules, powder, floc, or liquid that has not been subjected</td>
<td></td>
</tr>
<tr>
<td></td>
<td>to use or processing other than for its initial manufacture</td>
<td></td>
</tr>
<tr>
<td>Code 80</td>
<td>Polyethylene Lined</td>
<td></td>
</tr>
<tr>
<td>Code 81</td>
<td>Plastic – Virgin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plastic that has been subjected to reprocessing but retains some of its original properties</td>
<td></td>
</tr>
<tr>
<td>Code 82</td>
<td>Pulpboard</td>
<td></td>
</tr>
<tr>
<td>Code 83</td>
<td>Plastic – Regrind</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A plastic prepared from discarded articles that have been reprocessed, often changing some of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>its original properties</td>
<td></td>
</tr>
<tr>
<td>Code 84</td>
<td>Polystyrene</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A polymer prepared by the polymerization of styrene as the sole monomer</td>
<td></td>
</tr>
<tr>
<td>Code 85</td>
<td>Rubber</td>
<td></td>
</tr>
<tr>
<td>Code 86</td>
<td>Foam</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In packaging, a cushioning material used to reduce shock and vibration or abrasion</td>
<td></td>
</tr>
<tr>
<td>Code 88</td>
<td>Rubber and Fabric</td>
<td></td>
</tr>
<tr>
<td>Code 89</td>
<td>Special</td>
<td></td>
</tr>
<tr>
<td>Code 90</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>Code 91</td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Code 92</td>
<td>Tubes, Metal or Plastic</td>
<td></td>
</tr>
<tr>
<td>Code 94</td>
<td>Wood</td>
<td></td>
</tr>
<tr>
<td>Code 95</td>
<td>Single Wall Corrugated Board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The structure formed by one corrugated inner member between two flat facings; also known as</td>
<td></td>
</tr>
<tr>
<td></td>
<td>double face</td>
<td></td>
</tr>
<tr>
<td>Code 96</td>
<td>Double Wall Corrugated Board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The structure formed by three flat facings and two intermediate corrugated members</td>
<td></td>
</tr>
<tr>
<td>Code 97</td>
<td>Triple Wall Corrugated Board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The structure formed by four flat facings and three intermediate corrugated members</td>
<td></td>
</tr>
</tbody>
</table>
The table below lists all of the attributes whose values are contained in code lists. The Item team created a subgroup to handle the code lists. The work of the subgroup was based on the following:

- Identifying which data elements require a code list
- When maintaining body or agency exists, refer to the body or agency
- When required, define unique list of valid values, using existing lists or documentation (E.g. EANCOM and X12)

The subgroup’s objective was to keep the lists as short as possible, removing inconsistent, repeated, unclear or too generic values and also removing information handled through other data elements (E.g., Hazardous related information is handled by specific Des).

The issue of governance and maintenance of these code lists is still being developed. Several of the code lists are maintained by outside agencies such as ISO. Other code lists are unique to this data model, and will need to be maintained by an EAN.UCC entity.

The table enclosed in the following page represents the work of the group at the time this document was released for Align BRG’s approval. A separate and more complete Addendum may need to be added at a later time.

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Item Name</th>
<th>Code List</th>
</tr>
</thead>
<tbody>
<tr>
<td>TargetMarketInformation</td>
<td>targetMarketCountryCode</td>
<td>Country Codes ISO3166-1</td>
</tr>
<tr>
<td>TradeItemPriceDateInformation</td>
<td>cataloguePrice</td>
<td>Codes for the repres. of currencies and funds ISO 4217:2001</td>
</tr>
<tr>
<td>TradeItemPriceDateInformation</td>
<td>suggestedRetailPrice</td>
<td>Codes for the repres. of currencies and funds ISO 4217:2001</td>
</tr>
<tr>
<td>PriceOnTradeItem</td>
<td>retailPriceOnTradeItem</td>
<td>Codes for the repres.of agencies and codesISO 4217:2001</td>
</tr>
<tr>
<td>TradeItemClassification</td>
<td>classificationCategoryCode</td>
<td>Classification Attribute Type Code</td>
</tr>
<tr>
<td>EANUCCTradeItemClassification</td>
<td>eANUCCClassificationAttributeTypeCode</td>
<td>Classification Attribute Type Code</td>
</tr>
<tr>
<td>EANUCCTradeItemClassificationValue</td>
<td>eANUCCClassificationAttributeValueCode</td>
<td>Classification Attribute Value Code</td>
</tr>
<tr>
<td>ClassificationCategory</td>
<td>additionalClassificationAgencyName</td>
<td>Additional Classification Agency Name Reference 4.8.1</td>
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<td>TradeItemDescriptionInformation</td>
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<td>Codes for the representation of names of languages –Part 1: Alpha-2 code- ISO 639-1</td>
</tr>
<tr>
<td>Class Name</td>
<td>Item Name</td>
<td>Code List</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TradeItemDescriptionInformation</td>
<td>descriptionShort</td>
<td>Codes for the representation of names of languages – Part 1: Alpha-2 code- ISO 639-1</td>
</tr>
<tr>
<td>TradeItemDescriptionInformation</td>
<td>tradeItemFormDescription</td>
<td>Codes for the representation of names of languages – Part 1: Alpha-2 code- ISO 639-1</td>
</tr>
<tr>
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<td>tradeItemColorDescription</td>
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</tr>
<tr>
<td>TradeItemColorDescription</td>
<td>colorCodeListAgency</td>
<td>Color Code List Agency Reference 4.8.1</td>
</tr>
<tr>
<td>TradeItemSizeDescription</td>
<td>sizeCodeListAgency</td>
<td>Size Code List Agency Reference 4.8.1</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>ingredientStrength</td>
<td>Measure Unit Qualifier-TBD</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>genericIngredientStrength</td>
<td>Measure Unit Qualifier-TBD</td>
</tr>
<tr>
<td>TradeItemMarking</td>
<td>hasBatchNumber</td>
<td>Batch Lot Number Indicator Code-TBD</td>
</tr>
<tr>
<td>FMCGTradeItemMarking</td>
<td>isTradeItemGeneticallyModified</td>
<td>GeneticModificationIndicator-TBD</td>
</tr>
<tr>
<td>FMCGTradeItemMarking</td>
<td>isTradeItemIrradiated</td>
<td>Irradiated Item Code List - TBD</td>
</tr>
<tr>
<td>OrganicTradeItemCharacteristics</td>
<td>organicTradeItemCode</td>
<td>Organic Item Code Reference 4.8.1</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>height</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>width</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>depth</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemMeasurements</td>
<td>grossWeight</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>FMCGTradeItemMeasurements</td>
<td>netWeight</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>FMCGTradeItemMeasurements</td>
<td>diameter</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>FMCGTradeItemMeasurements</td>
<td>drainedWeight</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>PackagingType</td>
<td>packagingTypeCode</td>
<td>Packaging Type Code Reference 4.8.1</td>
</tr>
<tr>
<td>FMCGTradeItemMeasurements</td>
<td>pegHorizontal</td>
<td>Measure Unit Qualifier-TBD</td>
</tr>
<tr>
<td>FMCGTradeItemMeasurements</td>
<td>pegVertical</td>
<td>Measure Unit Qualifier-TBD</td>
</tr>
<tr>
<td>PackagingMaterial</td>
<td>packagingMaterialCompositionQuantity</td>
<td>Measure Unit Qualifier-TBD</td>
</tr>
<tr>
<td>PackagingMaterial</td>
<td>packagingTermsAndConditions</td>
<td>Packaging Terms and Conditions Reference 4.8.1</td>
</tr>
<tr>
<td>Class Name</td>
<td>Item Name</td>
<td>Code List</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>TradeItemHandlingInformation</td>
<td>stackingWeightMaximum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>storageHandlingTemperatureMaximum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>storageHandlingTemperatureMinimum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemHandlingInformation</td>
<td>handlingInstructionsCode</td>
<td>Handling Instructions - TBD</td>
</tr>
<tr>
<td>TradeItemHandlingInformation</td>
<td>minimumTradeItemLifespanFromTimeOfArrival</td>
<td>Unit of Time Period - TBD</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>deliveryToMarketTemperatureMaximum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>deliveryToMarketTemperatureMinimum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>deliveryToDistributionCenterTemperatureMaximum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemTemperatureInformation</td>
<td>deliveryToDistributionCenterTemperatureMinimum</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemOrderInformation</td>
<td>orderingLeadTime</td>
<td>Unit of Time Period - TBD</td>
</tr>
<tr>
<td>TradeItemCountryOfOrigin</td>
<td>countryOfOrigin</td>
<td>Country Codes ISO3166-1</td>
</tr>
<tr>
<td>TradeItemPalletInformation</td>
<td>palletTypeCode</td>
<td>Pallet Type Code Reference 4.8.1</td>
</tr>
<tr>
<td>TradeItemPalletInformation</td>
<td>palletTermsAndConditions</td>
<td>Pallet Terms and Condition Reference 4.8.1</td>
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<tr>
<td>TradeItemHazardousInformation</td>
<td>dangerousGoodsRegulationCode</td>
<td>Dangerous Goods Regulations - TBD</td>
</tr>
<tr>
<td>TradeItemHazardousInformation</td>
<td>unitedNationsDangerousGoodsNumber</td>
<td>UNDG Number -DE7124</td>
</tr>
<tr>
<td>TradeItemHazardousInformation</td>
<td>classOfDangerousGoods</td>
<td>UN -Class of Dangerous Goods</td>
</tr>
<tr>
<td>TradeItemHazardousInformation</td>
<td>flashPointTemperature</td>
<td>UN/CEFACT Recommendation 20</td>
</tr>
<tr>
<td>TradeItemDescriptionInformation</td>
<td>productRange</td>
<td>Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1</td>
</tr>
<tr>
<td>TradeItemDescriptionInformation</td>
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</tr>
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<td>Codes for the representation of names of languages -- Part 1:Alpha-2 code -ISO 639-1</td>
</tr>
</tbody>
</table>
4.9 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. 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.
The following four Appendixes were incorporated for informational purposes.

APPENDIX A – Attribute Variations
Shows how do attributes vary (by Target Market, by Relationship) or how can attributes be repeated (Multiple Values Allowed).

APPENDIX B – Attribute Association by Trade Item Hierarchy Level for Data Sync
Shows the attribute association by each hierarchy level as it applies to Data Synchronization.

APPENDIX C – Attributes Mandatory for Data Synchronization
It is recognized that the attributes listed in this data model may be used for a ‘one-to-many’ global data synchronization process. In light of this use, the table in Appendix 3 lists which attributes are mandatory within this process. Please note, this does not mean that only mandatory attributes are communicated via data sync. All other attributes, marked as optional here, can also be included in messages.

APPENDIX D – Version 7.2 Model Harmonization Summary
Summary of harmonized models.
## Appendix A: Attribute Variations

<table>
<thead>
<tr>
<th>Resolved Item Name</th>
<th>Multiple Values Alloweed</th>
<th>Can vary by Tar Market i.e has status: N (Global/Local) (Local)</th>
<th>Is Trading Partner Dependent (T.P.Dependent), Trading Partner Neutral (T.P.Neutral+F53) OR Both</th>
</tr>
</thead>
<tbody>
<tr>
<td>additionalClassificationAgencyName</td>
<td>Yes</td>
<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
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<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
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<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>additionalTradeItemDescription</td>
<td>No</td>
<td>Y (Global/Local)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>agreedMaximumBuyingQuantity</td>
<td>No</td>
<td>Y (Global/Local)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>agreedMinimumBuyingQuantity</td>
<td>No</td>
<td>Y (Global/Local)</td>
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</tr>
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<tr>
<td>brandOwner</td>
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<td>T.P.Neutral</td>
</tr>
<tr>
<td>campaignEndDate</td>
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<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
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<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
<tr>
<td>campaignStartDate</td>
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<td>N (Global)</td>
<td>T.P.Neutral</td>
</tr>
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<td>T.P.Neutral</td>
</tr>
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<td>T.P.Neutral</td>
</tr>
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<td>T.P.Neutral</td>
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<td>T.P.Neutral</td>
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<td>T.P.Neutral</td>
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## APPENDIX B Attribute Association by Trade Item Hierarchy Level for Data Synchronization

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## APPENDIX C Attributes Mandatory for Data Synchronization

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Appendix D: Trade Item Implementation Feedback

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

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The textual business requirement lines (1506-1531) will be removed from the BRD. No change needed to model as this attribute does not exist in the model.

The textual business requirement lines (1826-1851) will be removed from the BRD. No change needed to model as this attribute does not exist in the model.
Attributes that will be handled with the Hierarchy Proposal:
These four attributes are in the Trade Item appendix 1 class diagram.
- Quantity of layers per pallet
- Quantity of children
- Quantity of trade items per pallet
- Quantity of trade items per pallet layers

Attributes recommended to change from Mandaotry or Dependent to Optional

<table>
<thead>
<tr>
<th>Change</th>
<th>Class</th>
<th>Attribute</th>
<th>Model Location</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ClassificationCategory</td>
<td>additionalClassificationCategoryDescription</td>
<td>Trade Item Classification appendix 6</td>
<td>The Trade Item Country of Origin is optional, if the class is used, then the country of Origin is mandatory.</td>
</tr>
<tr>
<td>2</td>
<td>TradeItemCountryOfOrigin</td>
<td>countryOfOrigin</td>
<td>(TPNTII) appendix 4 and 5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>TradeItemHazardousInformation</td>
<td>flashPointTemperature</td>
<td>(TPNTII) appendix 4 and Trade Item Common appendix 17</td>
<td>The Price On Trade Item class is optional, if the class is used, then the retail price on trade item is mandatory.</td>
</tr>
<tr>
<td>4</td>
<td>PriceOnTradeItem</td>
<td>retailPriceOnTradeItem</td>
<td>(TPNTII) appendix 4 and 5</td>
<td></td>
</tr>
</tbody>
</table>
Conversion of Mandatory Boolean attributes into code list solution.

- isIngredientIrradiated
- isRawMaterialIrradiated
- isTradeItemIrradiated
- isTradeItemGeneticallyModified

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

<table>
<thead>
<tr>
<th></th>
<th>Current Model</th>
<th>Revised Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMCGTradeItemMarking</td>
<td></td>
<td>FMCGTradeItemMarking_Revised</td>
</tr>
<tr>
<td></td>
<td>isIngredientIrradiated : Boolean</td>
<td>ingredientIrradiated[0..1] : AnswerList</td>
</tr>
<tr>
<td></td>
<td>isRawMaterialIrradiated : Boolean</td>
<td>rawMaterialIrradiated[0..1] : AnswerList</td>
</tr>
<tr>
<td></td>
<td>isTradeItemGeneticallyModified : Boolean</td>
<td>tradeItemGeneticallyModified[0..1] : AnswerList</td>
</tr>
<tr>
<td></td>
<td>isTradeItemIrradiated : Boolean</td>
<td>tradeItemIrradiated[0..1] : AnswerList</td>
</tr>
<tr>
<td>AnswerList</td>
<td>FALSE, TRUE, UNSPECIFIED</td>
<td>&lt;&lt;enumeration&gt;&gt; AnswerList</td>
</tr>
</tbody>
</table>

CodeList Solution