



The Global Language of Business

# GS1 US Foodservice Recommended GDSN Trade Item Attribution

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### **About GS1**

GS1 is a neutral, not-for-profit organization that develops and maintains the most widely used global standards for efficient business communication. We are best known for the barcode, named by the BBC as one of “the 50 things that made the world economy.” GS1 standards improve the efficiency, safety, and visibility of supply chains across physical and digital channels in 25 sectors. Our scale and reach—local Member Organizations in 116 countries, 2 million user companies and 6 billion transactions every day—help ensure that GS1 standards create a common language that supports systems and processes across the globe.

### **About GS1 US**

GS1 US®, a member of GS1 global, is a not-for-profit information standards organization that facilitates industry collaboration to help improve supply chain visibility and efficiency using GS1 Standards, the most widely used supply chain standards system in the world. Nearly 300,000 businesses in 25 industries rely on GS1 US for trading- partner collaboration that optimizes their supply chains, drives cost performance and revenue growth while also enabling regulatory compliance. They achieve these benefits through solutions based on GS1 global unique numbering and identification systems, barcodes, Electronic Product Code-based RFID, data synchronization, and electronic information exchange. GS1 US also manages the United Nations Standard Products and Services Code® (UNSPSC®).

### **About Foodservice GS1 US Standards Initiative**

The Foodservice GS1 US Standards Initiative serves as a strategic effort in which industry trade associations and individual companies may choose to join on a voluntary basis to assist with their company’s adoption and implementation of GS1 Standards. Nothing herein should be construed as constituting or implying an agreement among foodservice companies to adopt or implement GS1 Standards. Nothing herein should be construed as constituting or implying an agreement regarding any company’s prices, output, markets, or dealings with customers and suppliers. Nothing herein is inconsistent with the proposition that each participating company must and will exercise its independent business judgment on all standards adoption.



### Document Summary

Document Item	Current Value
Document Title	GS1 US Foodservice Recommended GDSN Trade Item Attribution
Date Last Modified	11/14/2022
Document Description	Supplements the formal GS1 Global Data Synchronization Network™ (GDSN®) standards with advice on their implementation and operation as related to the Foodservice Initiative of GS1 US.

### Log of Changes

Release Number -- Date	Change
Release 1.0 November 14, 2022	Initial release/publication.

## 1 Introduction

This document supplements the [GS1 GDSN 3.1 Trade Item Implementation Guidance](#) and provides guidance on the implementation and operation of these attributes. This document is in no way normative or definitive and is not standard. It includes implementation guidance for a variety of the more complicated issues encountered when implementing the GS1 Global Data Synchronisation Network™ (GDSN®) attributes as outlined by the Foodservice GS1 US Standards Initiative members. It seeks to increase consistency and ease of implementation by explaining the attributes and providing real-world examples.



**Note:** As with all GS1 Standards and solutions, the *GS1 US Foodservice Recommended GDSN Trade Item Attribution* is voluntary, not mandatory. It should be noted that use of the words “must” and “require” throughout this document relate exclusively to technical recommendations for the proper application of the standards to support the integrity of implementation.

### Who will use this document?

Business users who are implementing or synchronizing product master data via the GDSN may use this document to supplement the formal GS1 GDSN standards with additional guidance. This document is aimed primarily at business users who need to understand the data content or process standards. Technical users involved with implementation may also find topics of interest. Terminology between GDSN attribute and attributes within data pool may differ, for more details and the appropriate mapping please contact your data pool.

### Scope

The scope is the data and processes for the synchronization of Trade Items within the GDSN Catalogue Item Notification Message by the Foodservice GS1 US Standards Initiative (“the Initiative”). In this version of the document, the scope is limited to the attributes as defined by the GS1 US Foodservice Attribute Workgroup. While there are other attributes available in GDSN, they will only be in scope for this document if defined for use by GS1 US Foodservice Attribute Workgroup.

### Prerequisites

This document will discuss the attributes identified by GS1 US Foodservice Attribute Workgroup members when utilizing the GS1 Global Data Synchronization Network™ (GDSN®) and not all the attributes and functionality available within the network. These topics are covered in other guidance documents. Only high-level GDSN information will be provided in this document. It is understood that the reader or user of this document is familiar with the content of these other guides. These [additional resources](#) are recommended to familiarize yourself before reading this document.

- GS1 GDSN 3.1 Trade Item Implementation Guide (or updated version).
- GS1 GDSN 3.1 Operational Manual (or updated version)
- GS1 US Foodservice Getting Started with the GS1 Global Data Synchronization Network (GDSN)
- GS1 US Foodservice Guidance for Sharing Product Attributes via GDSN (or updated version).

These guides can be found on [www.gs1us.org](http://www.gs1us.org) and/or [www.gs1.org](http://www.gs1.org)

## 2 General GDSN Information

The GDSN information below is needed to understand the recommendations provided by the GS1 US Foodservice Attribute Workgroup. It is general information on how GDSN works and how it applies to this guidance.

### 2.1 Network Messages

There are several standard messages within the GDSN Synchronization Process, including but not limited to:

- Registry Catalogue Item
- Catalogue Item Registration Response
- Catalogue Item Subscription
- Request for Catalogue Item Notification
- Catalogue Item Confirmation
- Catalogue Item Hierarchical Withdrawal
- Catalogue Item Notification
- Catalogue Item Publication

Each of these messages serves a unique purpose and contains specific information needed to connect trading partners within the network. Trade item information is published to a trade partner via the Catalogue Item Notification Message. This is the GDSN Message in scope for this guidance document. The Catalogue Item Notification is sent directly from the Source Data Pool to the Recipient Data Pool. It does not go through the Global Registry, which has facilitated the connection but is not involved in the actual message exchange.

### 2.2 Classes and Modules

The GDSN Catalogue Item Notification (CIN) contains a set of attributes which are grouped in different modules, also known as attribute classes and attribute subclasses. A list of modules has been defined for each context based on the characteristics of the product and/or industry sector. Attributes within a module tend to provide additional information on a specific business need or specific industry. Some attribute classes may exist independent of the modules; however, modules can contain subclasses of attributes. For the purposes of this document, we have listed attributes in the parent class and omitted the specific subclass references. To get the proper Xpath information reference [GS1 Navigator Tool](#).

### 2.3 Associations - Invoking GDSN Classes

In addition to modules having subclasses, modules can invoke other GDSN classes (called Associations) that are not directly related to the topic of the module. The attributes within the invoked Classes can assist in the communication of related data. Depending on the data pools interface, this may not be evident. Please work with your corresponding data pool to understand what Associations are needed or may be beneficial for your trade item.

### 2.4 Element Naming

All Module and Class names used in the GDSN Schema have no spaces and all words in the name are capitalized (e.g., TradeltemDescriptionModule; AllergenInformation). For the purposes of this document, we will write names with spaces in the document subheaders for ease of reading. For ease of searching, use the BMS ID or remove the spaces of the class name.

All attribute names used in the GDSN Schema have no spaces and all words in the name are capitalized except for the first word (e.g., globalLocationNumber uniqueCreatorIdentification). For the purposes of this document, attribute names will remain the same so they can easily be found within GDSN.

### 2.5 BMS ID and X-Path

Attributes may be found in multiple places within GDSN. Some attributes can be found in multiple messages as well as in multiple places within the Catalogue Item Notification message. Some attributes are available in different classes or modules. Their different locations and access points can be found using the X-path and BMS ID. The X-path is the breakdown of the attribute location within the network and the BMS ID is the unique identifier of the attribute within a class or module where the attribute is being published.

## 2.6 Attribute Datatypes

Attributes or data can take on different forms known as Attribute Datatypes. Examples of datatypes can be a string of text, field descriptions, measurements, closed code lists, open code lists, attributes providing a True or False response (Boolean) or a Yes/No answer (nonbinary). Attribute datatypes create consistency within the GDSN Messages.

Attribute code lists are widely used in GDSN. Code lists are the standardized lists of values allowed at the given location of the GS1 GDSN message. GS1 uses values from two types of sources:

- Code lists defined and maintained outside of GS1 - by external organizations (agencies)
- Code lists defined and maintained by GS1

GDSN also allows for the use of open code lists. These lists are standardized outside of GS1 US but need to be entered as a string of text.

## 2.7 Attribute Qualifiers

Attribute qualifiers assist in the communication of the data, generally a unit of measurement, a language code, or a currency code. The specific attribute may be requested as part of a validation rule (globally) or as part of a local market best practice. Attribute qualifiers recommended for the US Target Market are listed in this guide.

## 2.8 Attribute Cardinality and Multiplicity

For data synchronization, attributes have been identified in a way that users know if an attribute must be populated (attribute cardinality), is repeatable, and if only a single value is allowed (attribute multiplicity). Many attributes are considered optional, and some are considered mandatory to be populated for successful publication, being required when their parent class is invoked and in situations where a validation rule is applicable.

There may be attributes within a class that are mutually exclusive and are designated within the XML schema as “Choice.” “Choice” in a class of attributes means either one or an alternate attribute is mandatory. Individually though, the attributes are optional. The choice is between two or more attributes; however, only one attribute can be selected. If a class is invoked with “Choice” attributes, one of the attributes must be populated or the message will not pass validation.

Lastly, optional attributes are included when deemed appropriate by the Information Provider of the Trade Item.

Classes and attributes can be repeated to provide multiple layers of data. When attributes can be repeated, this characteristic is the attribute’s multiplicity. If the value of the attribute's multiplicity (i.e., 1..1 or 1..\*) ends in 1, the attribute or class cannot be repeated. If the value ends in \*, then the attribute or class can be repeated.

## 2.9 Validation Rules

Validation Rules are used in GDSN to enforce business rules associated with Parties, Items, and Prices. All attributes are validated based on the GDSN keys: GTIN, GLN and Target Market.

Validations may be either:

- Approved by Global Standards Management Process (GSMP), also referred to as global validations and the attribute is globally relevant. Their value is always the same for every target market and for every trading partner.
- Not approved by GSMP, introduced locally by the data pools, and referred to as local validations. Their value may vary on different target markets and or the attribute may or may not be globally applicable.

Local validations are likely to occur outside of the schemas. Because of that, validations can be modified without having to implement a whole new set of schemas for each change. The US Target Market has validation rules that make GDSN optional attributes (globally) mandatory locally. To determine if there is any local validation that makes an optional attribute mandatory, please refer to the [GDSN Validation Rules](#).

Depending on the validation rules, some attributes may be mutually exclusive or dependent on one another. These are called



attribute dependencies and can be due to business rules (e.g., one attribute is dependent on another to provide complete information), or due to technical rules where a unit of measure or an additional code is needed to complete the syntax of the data.

## 2.10 Attribute Value Pair (AVP)

Some Modules and Classes contain placeholders for temporary message components, called Attribute Value Pair – AVP. The reason for adding the AVP was to lower the barrier for attribute implementation. Any urgent requirements can be supported on an exceptional basis by adding temporary AVP components to the existing classes or modules to temporarily provide data to trading partners until the formal attributes can be added to the next available GDSN Release.

## 3 GS1 US Foodservice Attribute Review Workgroup Direction

In January of 2022, the Foodservice GS1 US Standards Initiative created the GS1 US Foodservice Attribute Workgroup to address the proliferation of Global Data Synchronization Network® (GDSN™) master data attributes experienced in the foodservice industry. The workgroup was tasked to review and reset the list of recommended attributes critical for doing business in the foodservice industry. The focus was on all GDSN optional attributes within the Catalogue Item Notification Message. GDSN Mandatory attributes were not within the scope. The workgroup identified two designations needed for industry implementation: “Highly Recommended,” and “Advised for Discussion”. Before the attributes were chosen and their respective designation established, the workgroup agreed on the preferred GDSN Modules and Classes for use in the industry. Once these were identified, the attributes listed within the classes and modules were given a designation based on the importance to the industry and how commonly the attributes were used in the supply chain. The terminology definition for the attributes listed in this document is as follows:

- **GDSN Mandatory**

These are mandatory attributes that are required for the GDSN Catalogue Item Notification Message to successfully publish. It includes attributes that are mandatory within GDSN classes and modules. Attributes within this category also list mandatory attributes that are required when associated classes or subclasses are invoked. Attributes within this column can also be GDSN mandatory when a global or local validation rule applies to the US Target Market.

- **Highly Recommended Attributes**

These are GDSN Optional attributes that are highly recommended for industry use. These are the best known GDSN attributes and are widely used in different foodservice sectors and throughout different product types. These attributes are considered necessary by most trading partners to efficiently do business. Highly Recommended attributes were also selected in trade item modules, where usage of these attributes is considered widespread among trading partners using these modules. The consistent use of these attributes in recipient implementation guides is encouraged.

- **Advised for Discussion Attributes**

Next the workgroup created a secondary list of attributes that although not widely used by all industry sectors, could be highly beneficial and are “Advised for Discussion” with trading partners as they may apply to specific trade items or foodservice sectors. These attributes tend to be more granular in nature or provide customer-specific data. These attributes are only highlighted to help GDSN users discuss the applicability of these attributes to their trade items.

Trading partners are encouraged to use these attributes if applicable to their trade item. However, wide use of these attributes is not expected and should not be encouraged unless they are widely beneficial for your business.

While GDSN has determined the cardinality of the attributes overall, the workgroup has determined industry designations over and above that assigned by GDSN. For example, if GDSN has assigned an attribute as optional, the workgroup might have determined the attribute might need to be populated for the US target market for a specific use case and assigned a “Highly Recommended” or “Advised for Discussion” designation. Attribute dependencies (attributes considered mutually

exclusive by a Target Market) were given the same designation to ensure consistency of use.

These designations do not prescribe any need or eliminate the ability to require population of any attribute by a recipient; however, the use of these attribute recommendations is encouraged to promote consistency among trading partners and the industry.

In addition, to assigning designations to the attributes, the workgroup also listed the industry sectors that may benefit from the use of the attributes and provided guidance on the use of the attributes, including industry best practices. The workgroup recommendations are provided in the next section with any relevant information that is applicable to the industry. Workgroup guidance and examples were provided where appropriate.

## 4 Foodservice Recommended GDSN Attribution

In this section, the attribute modules and classes the GS1 US Foodservice Attribute Workgroup determined were applicable to the foodservice industry. Any module or attribute not listed here was not prioritized by the workgroup for industry use. GDSN Classes are presented as they are available in the XML Schema and GDSN Modules that are related or complimentary to each other are listed consecutively. Please note, GDSN Modules can be invoked via the Trade Item Information Class randomly and in no order. Work with your Data Pool to provide you access. Data pool interfaces may also differ from XML schema for ease of understanding.

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**Helpful Tip:** Once information providers start publishing the Catalogue Item Notification Message, they will begin completing the information for their trade item using the Trade Item Parent Class. Within this class, they will also be required to complete four mandatory subclasses in addition to optional subclasses of their choosing. There are seven optional subclasses recommended for foodservice and all are listed below.

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### 4.1 Trade Item (Parent Class) (54)

Trade Item Information refers to the trade item being bought or sold, including pricing, ordering, and invoicing information.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(67) GTIN	(59) isTradeltenAnInvoiceUnit	
(56) isTradelItemABaseUnit	(63) isTradelItemRecalled	
(57) isTradelItemAConsumerUnit	(64) preliminaryItemStatusCode	
(58) isTradelItemADespatchUnit		
(60) isTradelItemAnOrderableUnit		
(66) tradelItemUnitDescriptorCode		

**Foodservice Sectors Impacted:** All food, non-food, and equipment trade items.

**Foodservice Guidance:** All trade items published through GDSN should have a GTIN identifier (GDSN Mandatory). Users should indicate if the Trade Item is a Base Unit, Consumer Unit, Despatch Unit, the Invoice Unit, and the Orderable Unit using the attributes provided.

- The (56) isTradelItemABaseUnit- should be the trade item lowest hierarchy level. There should be no Child GTIN under it.
- The (57) isTradelItemAConsumerUnit- should be the unit of consumption.

- The (58) isTradeltemADespatchUnit- this GTIN level indicates it is a shippable level. This level may or may not be the orderable unit.
- The (59) isTradeltemAnInvoiceUnit- the GTIN level that should appear on the unit from the Information Provider to the Recipient. This indicator is no longer mandatory per GDSN validation rules.
- The (60) isTradeltemAnOrderableUnit- this GTIN can appear on an order placed by the Recipient with the Information Provider.
- In addition, (63) isTradeltemRecalled should be used when a trade item is recalled. However, this indicator is not a GDSN Choice attribute or required by any validation rules.

Finally, it is recommended that users identify the trade item information as final or preliminary using the (64) preliminaryItemStatusCode and list the trade item hierarchy level under (66) tradeltemUnitDescriptorCode. Please note, once the hierarchy level is chosen, the rest of the attributes chosen for this GTIN should be published with the hierarchy level in mind. If “case” is listed, all attributes related to this GTIN should be case related attributes and not attributes pertaining to a different hierarchy level.

For additional information on Trade Item Descriptors and “isTradeltem” attributes, please see section 4 and 31 in the [GS1 GDSN Trade Item Implementation Guide](#).

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*Helpful Tip: Next are the GDSN Mandatory Classes, which will reflect the information in the Registry Catalogue Item Message. Additional product information is recommended to create a proper trade item posting.*

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#### 4.2 Information Provider of Trade Item (79)

Information Provider of Trade Item refers to who is publishing and maintaining the trade item information. Generally, this is the manufacturer or distributor of the trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(83) GLN	(80) additionalPartyIdentification	(84) partyAddress
(85) partyName	(86) partyRoleCode	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** To identify the information provider of the trade item, users should provide the (83) GLN and the (85) partyName. The (84) partyAddress and (80) third-party identifier should be provided upon the recipient request.

#### 4.3 Target Market (111)

This is the country in which the item is intended to be sold.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(112) targetMarketCountryCode		

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** The list of geographical regions and countries is defined by the ISO-3166-1 code system. It is a 3-digit numerical code. The code for the United States is 840. If necessary, please work with your data pool to identify different country codes.

### 4.4 GDSN Trade Item Classification (160)

This is the classification of the trade item being sold in the GS1 Registry Platform.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(161) gpcCategoryCode	(163) gpcCategoryName	(166) gpcAttributeValueCode
(165) gpcAttributeTypeCode*		(167) gpcAttributeTypeDefinition
(173) additionalTradeItemClassificationCodeValue*		(168) gpcAttributeName
(174) additionalTradeItemClassificationCodeDescription*		(169) gpcAttributeValueName

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** The GPC schema provides a four-tier hierarchy including Segment, Family, Class, and Brick. The GPC brick code is mandatory in the GDSN as the (161) gpcCategoryCode. Some recipients may prefer additional information on the GPC attribute. When requested, this can be provided by invoking the GDSNTradeItemClassificationAttribute Class where the (165) gpcAttributeTypeCode can be included in addition to other Advised for Discussion attributes requested by the recipient. GPC Brick attributes provide additional descriptive granularity for a GPC Brick.

If a recipient requests an additional identification/classification schema be included for other business purposes, this can be provided by invoking the Additional Trade Item Classification Class and including the (173) additionalTradeItemClassificationCodeValue and (174) additionalTradeItemClassificationCodeDescription.

**XML Example: Table Grapes**

```

<gdsnTradeItemClassification>
  <gpcCategoryCode>20003029</gpcCategoryCode>
  <gpcCategoryName>Table Grapes</gpcCategoryName>
  <gpcAttributeTypeCode>20002796</gpcAttributeTypeCode>
  <gpcAttributeName>Color of Table Grapes</gpcAttributeName>
  <gpcAttributeTypeDefinition>Indicates, with reference to the product branding,
    labelling or packaging, the descriptive term that is
    used by the manufacturer to identify the specific colour
    of the table grapes.</gpcAttributeTypeDefinition>
  <gpcAttributeValueCode>30001983</gpcAttributeValueCode>
  <gpcAttributeValueName>RED</gpcAttributeValueName>
  </gdsnTradeItemClassificationAttribute>
  <additionalTradeItemClassification>
    <additionalTradeItemClassificationValue>
      <additionalTradeItemClassificationCodeValue>XXXXX</additionalTradeItemClassificationCodeValue>
      <additionalTradeItemClassificationCodeDescription>XXXXX</additionalTradeItemClassificationCodeDescription>
    </additionalTradeItemClassificationValue>
  </additionalTradeItemClassification>
</gdsnTradeItemClassification>

```

### 4.5 Trade Item Synchronization Dates (140)

This class provides the publishing and maintenance dates associated with the published trade item information.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(145) lastChangeDateTime	(143) discontinuedDateTime	
(146) publicationDateTime		
(144) effectiveDateTime		

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These dates are what the foodservice workgroup considers most valuable and needed to properly do business with a trading partner. These are the dates the data of a trade item is published, the date it becomes effective and the date an item is discontinued and out of the market. Anytime any of these dates are updated or created by either the user or data pool, the (145) lastChangeDateTime should be updated by your data pool.

**Helpful Tip:** Next are the GDSN Optional Classes, that provide additional information about the trade item. They are not required for network implementation, but give more descriptive information about the product, manufacturer, and brand owner. Trade item specific information can also be included via topic specific modules.

Please note two GDSN classes- Display Unit Information and Global Model Information were left out of this foodservice guideline as they were deemed not applicable to the foodservice industry.

#### 4.6 Manufacturer of Trade Item (87)

Information on who produced the trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(91) GLN	(92) partyAddress
	(88) additionalPartyIdentification	
	(93) partyName	
	(94) partyRoleCode	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** To identify the manufacturer of the trade item, provide (93) partyName and (92) partyAddress upon recipient request. (91) GLN or a (88) third-party identifier should be used to identify the party who produces the trade item.

#### 4.7 Brand Owner (71)

Information on the party or entity which owns the Brand under which the trade item is marked or traded.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(75) GLN**	(77) partyName	(76) partyAddress
	(72) additionalPartyIdentification	
	(78) partyRoleCode	

\*\* Please note these attributes are only GDSN Mandatory when the class is invoked. If the class is not invoked, the CIN Message will still be successful.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** To identify the brand owner of the trade item, users should provide the (75) GLN and the (77) partyName. The (76) partyAddress and (72) third-party identifier should be provided upon the recipient request.

#### 4.8 Next Lower-Level Trade Item Information (198)

This class lists the lower-level trade items and quantities that are part of the trade item hierarchy. This class is also referred to as the Child GTIN association.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(199) quantityOfChildren**		
(200) totalQuantityOfNextLowerLevelTradeItem**		
(203) GTIN (child GTIN) *		

(202) quantityofNextLowerLevelTradeltem*		
--	--	--

\*\* Please note these attributes are only GDSN Mandatory when the class is invoked. If the class is not invoked, the CIN Message will still be successful.

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** The number of child GTINs, quantities of each GTIN, the total of all the lower-level units and the GTIN for each child must be provided in this class. Please note that the attributes are required for the hierarchy levels above a base unit. If the class is invoked (assuming to publish a parent trade item), then (56) isTradeltemABaseUnit should be FALSE and all attributes within this class are GDSN mandatory. If publishing for a base unit, then (56) isTradeltemABaseUnit should be TRUE and these attributes should not be populated.

**EXAMPLE:** If a case contains six bags of light brown sugar, the value for (202) quantityofNextLowerLevelTradeltem and (200) totalQuantityOfNextLowerLevelTradeltem is 6.

Attribute Name	Bag of Light Brown Sugar (BASE UNIT)	Case of 6 bags of Light Brown Sugar (CASE)
GTIN	6141413333331	6141415555557
totalQuantityOfNextLowerLevelTradeltem	N/A	6
quantityOfChildren	N/A	1
childGTiN	N/A	6141413333331
quantityOfNextLowerLevelTradeltem	N/A	6

#### 4.9 Referenced Trade Item (114)

This is information on a different trade item that is associated with the trade item being sold or shipped. Associated trade item must have a GTIN.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(115) referencedTradeltemTypeCode**		
(116) GTIN**		

\*\* Please note these attributes are only GDSN Mandatory when the class is invoked. If the class is not invoked, the CIN Message will still be successful.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** This attribute is used when listing other trade items that could be used to replace, substitute, or may be used in conjunction with the trade item being published. Use this class when the associated trade item has a GTIN identifier.

#### 4.10 Non-GTIN Referenced Trade Item (6161)

This is information on a different trade item that is associated with the trade item being sold or shipped. Associated trade item does not have a GTIN.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(6162) referencedTradeltemTypeCode**	(6163)	

	additionalTradeItemIdentification	
(6164) additionalTradeItemIdentification/ @additionalTradeItemIdentificationTypeCode**		

\*\* Please note these attributes are only GDSN Mandatory when the class is invoked. If the class is not invoked, the CIN Message will still be successful.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes are used when listing other trade items that could be used to replace, substitute, or may be used in conjunction with the trade item being published. Use this class when the associated trade item does not have a GTIN identifier, and a different identifier is provided.

#### 4.11 Trade Item Contact Information (120)

The general contact categories for the trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(127) contactTypeCode**	(126) contactName	
(138) targetMarketCountryCode*	(23) contactAddress	
(134) communicationChannelCode*	(121) availableTime	
(135) communicationValue*		

\*\* Please note these attributes are only GDSN Mandatory when the class is invoked. If the class is not invoked, the CIN Message will still be successful.

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** This class can be used to provide contact information for all the parties involved with the trade item. The workgroup recommends including the contact information of the following parties: Consumer Support (CXC), Customer Support (CYC), GDS Contact (DOG), and Product Recall Notification Contact (PRC). Additional contacts should be included upon recipient request. Also, it is recommended that the country code for each contact be included using the (138) targetMarketCountryCode attribute.

#### 4.12 Trade Item Information (296)

Additional detailed information can be provided in this class regarding consumer product variants and component information. In addition, GDSN modules with specific content information can be invoked through this class.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(302) extension	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** The (302) extension point can be used to invoke additional GDSN Modules.

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*Helpful Tip: The following GDSN Modules were deemed by the Foodservice Attribute Workgroup necessary or beneficial to do business:*

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#### 4.13 Trade Item Description Module (3502)

This module provides general descriptions of the trade item including brand, form variant.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(3541) brandName	(3506) descriptionShort Associated Attribute Qualifier: (3507) descriptionShort/@languageCode	(3520) variantDescription Associated Attribute Qualifier: (3521) variantDescription/@languageCode
(3508) functionalName Associated Attribute Qualifier: (3509) functionalName/@languageCode	(3517) tradeItemDescription Associated Attribute Qualifier: (3518) tradeItemDescription/@languageCode	
	(3504) additionalTradeItemDescription Associated Attribute Qualifier: (3505) additionalTradeItemDescription/@languageCode	
	(3546) subBrand	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These are the main and secondary brand names associated with the trade item. They are denoted in the packaging and determined by the manufacturer. If the trade item being sold is not branded, then the (3541) brandName should be listed as Unbranded and the (3546) subBrand should not be populated. The (3508) functionalName should be populated with a “commodity” (i.e., product family) description, such as "cookie" or "soda." This attribute is not intended to be a detailed description or specification. It should not include brand names, sizes, or similar item-specific characteristics or descriptive names. When the trade item is seasonal or has multiple variations, provide distinguishable characteristic using (3520) variantDescription.

In addition, all trade item descriptions should be included here including the (3506) descriptionShort. This is the abbreviated product description, which would appear on Invoices, BOL, POS, etc. This short description is typically used for small format print situations (e.g., Reports, POS Receipts, Shelf Edge Tags, etc.).

**Associated Attribute Qualifiers:** When attribute values default to a language other than English, list language in use using the ISO Language Code list upon recipient request. (Ex: BMS#3509- functionalName/@languageCode for (3508) functionalName.)

#### 4.14 Trade Item Hierarchy Module (3608)

This information is on the hierarchical structure of a trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(3611) isTradeItemPackedIrregularly	
	(3614) quantityOfCompleteLayersContainedInATradeItem	
	(3618) quantityOfTradeItemsContainedInACompleteLayer	
	(3610) isNonGTINLogisticsUnitPackedIrregularly	
	(3615) quantityOfInnerPack (nonGTIN)	
	(3617) quantityOfNextLevelTradeItemWithinInnerPack (nonGTIN)	
	(3616) quantityOfLayersPerPallet (nonGTIN)	
	(3620) quantityOfTradeItemsPerPalletLayer (nonGTIN)	
	(3619) quantityOfTradeItemsPerPallet (nonGTIN)	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes declare the existing hierarchy levels within the given unit. For a hierarchy level that has a GTIN assigned, quantities should be provided using (3618) quantityOfTradeItemsContainedInACompleteLayer (Ti) and (3614) quantityOfCompleteLayersContainedInATradeItem (Hi). These attributes are integers that denote the number of layers in a trade item and the number of trade items within the layer. The numbers only refer to the hierarchy layer upon which the GTIN is populated. For example, if (3614) quantityOfCompleteLayersContainedInATradeItem is populated on a CASE GTIN, then it refers to the number of layers in the case. Typically, these attributes are used to



provide pallet Ti/Hi information.

DO NOT use these attributes if the trade unit DOES NOT have a GTIN assigned. Use the “Per Pallet” attributes to provide the applicable quantities.

When populating Pallet information, an easy way to remember which set of attributes to use is:

- If the attribute name contains the words "Per Pallet" - the attributes should be used when synchronizing Ti/Hi information where there is no Pallet GTIN.
- If the attribute name contains the words "Contained in a" - the attributes should be used when synchronizing Ti/Hi information where there is a Pallet GTIN.

Note: (3610) isNonGTINLogisticsUnitPackedIrregularly should only be used when there is a pallet without a GTIN where the total amount of the next level on the pallet cannot be determined by multiplying (3616) quantityOfLayersPerPallet (nonGTIN) by (3620) quantityOfTradelItemsPerPalletLayer (nonGTIN) to get (3619) quantityOfTradelItemsPerPallet (nonGTIN). If this formula works, the non GTIN Pallet is regular and (3610) isNonGTINLogisticsUnitPackedIrregularly should be False or not populated. If the formula does not equate, then (3610) isNonGTINLogisticsUnitPackedIrregularly should be populated with True. The same applies for (3611) isTradelItemPackedIrregularly for pallets that have GTIN. If (3614) quantityOfCompleteLayersContainedInATradelItem and (3618) quantityOfTradelItemsContainedInACompleteLayer equal (200) totalQuantityOfNextLowerLevelTradelItem from Next Lower-Level Trade Item Information Class, then (3611) isTradelItemPackedIrregularly is False. If the formula does not equate, then (3611) isTradelItemPackedIrregularly is True.

**EXAMPLE:** We have four scenarios listed below:

- A tall ice machine box in a pallet. The ice machine has a GTIN.
- A tall ice machine box in a pallet. The ice machine does not have a GTIN.
- A pallet containing paper towel dispensers. The pallet consists of 3 cases per layer x 3 layers high. Two additional cases are left on top. Each case has two inner packs. The paper towel dispensers have a GTIN.
- A pallet containing paper towel dispensers. The pallet consists of 3 cases per layer x 3 layers high. Two additional cases are left on top. Each case has two inner packs. The paper towel dispensers have do not have a GTIN.

Attributes	Ice Machine (with GTIN)	Ice Machine (without GTIN)	Paper Towel Dispensers (with GTIN)	Paper Towel Dispensers (without GTIN)
(3611) isTradelItemPackedIrregularly	FALSE	-	TRUE	-
(3614) quantityOfCompleteLayersContainedInATradelItem	1	-	4	-
(3618) quantityOfTradelItemsContainedInACompleteLayer	1	-	3	-
** (200) totalQuantityOfNextLowerLevelTradelItem **	1	-	11	-
(3610) isNonGTINLogisticsUnitPackedIrregularly	-	FALSE	-	TRUE
(3616) quantityOfLayersPerPallet (nonGTIN)	-	1	-	4
(3620) quantityOfTradelItemsPerPalletLayer (nonGTIN)	-	1	-	3
(3619) quantityOfTradelItemsPerPallet (nonGTIN)	-	1	-	11

For additional information on “How to Populate the Key TI/Hi attributes”, please see section 5 in the [GS1 GDSN Trade Item Implementation Guide](#). The document will provide guidance on what type of logistical unit and the attributes associated

with the unit.

#### 4.15 Trade Item Measurement Module (3719)

This module contains measurement information for the trade item. Measurements for logistical units with a GTIN can be included here. Logistical units can be pallets or individual cases.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(3721) depth Associated Attribute Qualifier: (3722) depth/@measurementUnitCode	(3727) inBoxCubeDimension Associated Attribute Qualifier: (3728) inBoxCubeDimension/@measurementUnitCode	(3775) drainedWeight Associated Attribute Qualifier: (3776) drainedWeight/@measurementUnitCode
(3739) width Associated Attribute Qualifier: (3740) depth/@measurementUnitCode	(3731) individualUnitMinimumSize Associated Attribute Qualifier: (3732) individualUnitMinimumSize/@measurementUnitCode	
(3725) height Associated Attribute Qualifier: (3726) height/@measurementUnitCode	(3729) individualUnitMaximumSize Associated Attribute Qualifier: (3730) individualUnitMaximumSize/@measurementUnitCode	
	(3733) netContent Associated Attribute Qualifier: (3734) netContent/@measurementUnitCode	
	(3777) grossWeight Associated Attribute Qualifier: (3778) grossWeight/@measurementUnitCode	
	(3779) netWeight Associated Attribute Qualifier: (3780) netWeight/@measurementUnitCode	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Dimensions should be provided using the measurement system applicable to the Target Market. In the US, the system of use is Imperial as opposed to Metric. The values for dimensions and weights should be based on the [GS1 Package Measurement Rules](#). The workgroup recommends using feet as the main Unit of Measurement for the (3727) inBoxCubeDimension for a consumer unit.

The (3733) netContent (trade item quantity) should be populated with the amount of the Trade Item listed on the package, usually as listed on the label. The net content attribute should be populated when (57) isTradeItemAConsumerUnit is TRUE.

The (3731) individualUnitMinimumSize and (3729) individualUnitMaximumSize attributes should be used to provide the lowest level packaging or un-packaged size. These attributes are used to describe the size and not the quantity for this level. Values expected should be ounces, pounds, kilos, etc. -- not count, pieces, sets, etc.

When populating data where there is a Minimum and Maximum set of values, these attributes should be populated with the lower limit in the minimum and the upper limit in the maximum. However, not all situations have a range for the information being requested. The table below gives guidance as best practice on how to populate.

Information Type Available	Populated In	Value
Range of Lowest to Highest	Minimum Values Field	Lowest Value
	Maximum Values Field	Highest Value
Less Than a Value	Minimum Values Field	Leave Null
	Maximum Values Field	Highest Value

Greater Than a Value	Minimum Values Field	Lowest Value
	Maximum Values Field	Leave Null
Single or Recommended Value	Minimum Values Field	Single Value populated in both fields
	Maximum Values Field	

**Associated Attribute Qualifiers:** All measurements should be provided with a Unit of Measurement using the Measurement Unit Code list. (Ex: BMS#3722-depth/@measurementUnitCode is the unit of measurement for (3721) depth.)

#### 4.16 Trade Item Handling Module (3581)

Instruction on the way to treat goods during transport and storage.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(3604) stackingFactor

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** This attribute can be used to detail the maximum stacking for the product. Indicates the number of levels the product may be stacked. Only use this attribute when there is a logistic unit with a GTIN.

#### 4.17 Non GTIN Logistics Unit Information Module (1662)

This module contains information for pallets without a GTIN where the information is being provided at the case level. Dimensions and weight can be provided here for NonGTIN logistical units.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(1664) depth <b>Associated Attribute Qualifier: (1665) depth/@measurementUnitCode</b>	
	(1671) width <b>Associated Attribute Qualifier: (1672) width/@measurementUnitCode</b>	
	(1668) height <b>Associated Attribute Qualifier: (1669) height/@measurementUnitCode</b>	
	(5468) logisticsUnitCubeDimension <b>Associated Attribute Qualifier: (5469) logisticUnitCubeDimension/@measurementUnitCode</b>	
	(1666) grossWeight <b>Associated Attribute Qualifier: (1667) grossWeight/@measurementUnitCode</b>	
	(5470) netWeight <b>Associated Attribute Qualifier: (5471) netWeight/@measurementUnitCode</b>	
	(1670) logisticsUnitStackingFactor	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Dimensions should be provided using the measurement system applicable to the Target Market. In the US, the system of use is Imperial as opposed to Metric. The values for dimensions and weights should be based on the [GS1 Package and Product Measurement Standard](#), including the shipping platform unless it is excluded in the platformTypeCode which can be found in the Packaging Information Module. The difference between GTIN and Non-GTIN logistical unit is explained in *Table 5-1 Data Attributes Used to Synchronize Logistics Unit Information* from the [GS1 Trade Item Implementation Guide](#). A copy of this table is included below for reference.

**Table 5-1** Data Attributes Used to Synchronize Logistics Unit Information from the GS1 Trade Item Implementation Guide.

<b>Business Requirement</b>	<b>GTIN Logistics Unit Scenario</b>	<b>Non-GTIN Logistics Unit Scenario</b> <i>The data must be attached to the highest level identified with a GTIN.</i>
† “cases” per layer	<i>Quantity Of Trade Items Contained In A Complete Layer</i> Attribute: <i>quantityOfTradeItemsContainedInACompleteLayer</i> Class: <i>TradeItemHierarchy</i> Module: <i>TradeItemHierarchyModule</i>	<i>Quantity Of Trade Items Per Pallet Layer</i> Attribute: <i>quantityOfTradeItemsPerPalletLayer</i> Class: <i>TradeItemHierarchy</i> Module: <i>TradeItemHierarchyModule</i>
layers per logistics unit	<i>Quantity Of Complete Layers Contained In A Trade Item</i> Attribute: <i>quantityOfCompleteLayersContainedInATradeItem</i> Class: <i>TradeItemHierarchy</i> Module: <i>TradeItemHierarchyModule</i>	<i>Quantity Of Layers Per Pallet</i> Attribute: <i>quantityOfLayersPerPallet</i> Class: <i>TradeItemHierarchy</i> Module: <i>TradeItemHierarchyModule</i>
† “cases” per logistics unit	<i>Quantity Of Next Lower Level Trade Item</i> Attribute: <i>quantityOfNextLowerLevelTradeItem</i> Class: <i>ChildTradeItem</i> Module: <i>TradeItem (core)</i>	<i>Quantity Of Trade Items Per Pallet</i> Attribute: <i>quantityOfTradeItemsPerPallet</i> Class: <i>TradeItemHierarchy</i> Module: <i>TradeItemHierarchyModule</i>
logistics unit gross weight	<i>Gross Weight</i> Attribute: <i>grossWeight</i> Class: <i>TradeItemWeight</i> Module: <i>TradeItemMeasurementsModule</i>	<i>Logistics Unit Gross Weight</i> Attribute: <i>grossWeight</i> Class: <i>NonGTINLogisticsUnitInformation</i> Module: <i>NonGTINLogisticsUnitInformationModule</i>
logistics unit height	<i>Height</i> Attribute: <i>height</i> Class: <i>TradeItemMeasurements</i> Module: <i>TradeItemMeasurementsModule</i>	<i>Logistics Unit Height</i> Attribute: <i>height</i> Class: <i>NonGTINLogisticsUnitInformation</i> Module: <i>NonGTINLogisticsUnitInformationModule</i>
logistics unit depth	<i>Depth</i> Attribute: <i>depth</i> Class: <i>TradeItemMeasurements</i> Module: <i>TradeItemMeasurementsModule</i>	<i>Logistics Unit Depth</i> Attribute: <i>depth</i> Class: <i>NonGTINLogisticsUnitInformation</i> Module: <i>NonGTINLogisticsUnitInformationModule</i>
logistics unit width	<i>Width</i> Attribute: <i>width</i> Class: <i>TradeItemMeasurements</i> Module: <i>TradeItemMeasurementsModule</i>	<i>Logistics Unit Width</i> Attribute: <i>width</i> Class: <i>NonGTINLogisticsUnitInformation</i> Module: <i>NonGTINLogisticsUnitInformationModule</i>
stacking factor	* <i>Stacking Factor</i> Attribute: <i>stackingFactor</i> Class: <i>TradeItemStacking</i> Module: <i>TradeItemHandlingModule</i>	<i>Logistics Unit Stacking Factor</i> Attribute: <i>logisticsUnitStackingFactor</i> Class: <i>NonGTINLogisticsUnitInformation</i> Module: <i>NonGTINLogisticsUnitInformationModule</i>
stacking factor type	* <i>Stacking Factor Type</i> Attribute: <i>stackingFactorTypeCode</i> Class: <i>TradeItemStacking</i> Module: <i>TradeItemHandlingModule</i>	No attribute available
platform terms & conditions	* <i>Platform Terms And Conditions</i> Attribute: <i>platformTermsAndConditionsCode</i> Class: <i>PlatformInformation</i> Module: <i>PlatformInformationModule</i>	<i>Platform Terms And Conditions</i> Attribute: <i>platformTermsAndConditionsCode</i> Class: <i>PlatformInformation</i> Module: <i>PlatformInformationModule</i>

irregular pallet configuration	<i>* Is Trade Item Packed Irregularly Attribute:</i> <i>isTradeltemPackedIrregularly</i> <i>Class: TradeltemHierarchy</i> <i>Module: TradeltemHierarchyModule</i>	<i>Is Non GTIN Logistic Unit Packed Irregularly Attribute:</i> <i>isNonGTINLogisticsUnitPackedIrregularly</i> <i>Class: TradeltemHierarchy</i> <i>Module: TradeltemHierarchyModule</i>
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**Associated Attribute Qualifiers:** All measurements should be provided with a Unit of Measurement using the Measurement Unit Code list. (Ex: BMS#1665-depth/@measurementUnitCode is the unit of measurement for (1664) depth.)

To review examples on GTIN and Non-GTIN logistical units, please see section 5 in [GS1 GDSN Trade Item Implementation Guide](#). Additional examples are also available in the [GS1 US Foodservice Guidance for Sharing Product Attributes via GDSN](#).

#### 4.18 Variable Trade Item Module (3906)

Information specific to variable weight or dimension trade items.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(3908) isTradeltemAVariableUnit		(3909) variableTradeltemTypeCode

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes indicate if the trade item is loose or prepacked and whether trade item varies in weight, length, or volume.

#### 4.19 Trade Item Life Span Module (3700)

Information on the amount of time the item can or should be used, sold, etc.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(3703) minimumTradeltemLifespanFromTimeOfArrival	
	(3704) minimumTradeltemLifespanFromTimeOfProduction	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:**

- (3704) minimumTradeltemLifespanFromTimeOfProduction - number of days from production until the expiration date. This number signifies the minimum number of days a recipient can expect to have on a Trade Item they receive.
- (3703) minimumTradeltemLifespanFromTimeOfArrival - number of days from arrival at the recipient until the expiration date. This number signifies the minimum number of days a recipient can expect to have on a Trade Item they receive. This date is based upon the date of receipt. It is understood that not every route along which an item may be shipped will have the same transit time. To account for this, this number is a minimum, not an exact number or a maximum.

#### 4.20 Trade Item Data Carrier and Identification Module (3475)

This is a module containing information on data carriers or GS1 identifiers associated with the trade item

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(3480) dataCarrierTypeCode	
	(3490) gs1TradeltemIdentificationKeyCode	
	(3491) gs1TradeltemIdentificationKeyValue	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Users can list the type of data carrier, the type of GTIN and the actual GTIN information.

#### 4.21 Nutritional Information Module (1681)

Information about the content of nutrients.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(1717) preparationStateCode*	(1694) isNutrientRelevantDataProvided	(1684) nutrientFormatTypeCodeReference
(1733) nutrientTypeCode*	(1734) quantityContained	(1692) descriptionOnANutrient
	(1732) measurementPrecisionCode	(5872) nutrientBasisQuantityDescription
	(1716) nutrientBasisQuantityTypeCode	(5889) servingsPerPackageDescription
	(1714) nutrientBasisQuantity	(1712) dailyValueIntakeReference
	(1718) servingSize	(1682) nutritionalClaim
	(1720) servingSizeDescription	
	(1731) dailyValueIntakePercent	
	(1737) nutrientValueDerivationCode	
	(1710) nutritionalClaimTypeCode	
	(1709) nutritionClaimNutrientElementCode	
	(6339) claimMarkedOnPackage	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food sectors.

**Foodservice Guidance:** All nutrient information should be populated at the lowest GTIN in a hierarchy.

- The four factors that drive a Nutrition Facts Panel are: preparation state, the serving size description, serving size and the Basis Quantity. If any of these factors change a new NFP should be provided.
  - The preparation state denotes the actual state of the item against which the nutrients and values are relevant. Please note, products that are consumed as sold are considered Unprepared. If further steps are taken with the trade item, then it would be considered Prepared.
    - The preparation state of unprepared refers to the product as it is sold (i.e., sodas in a can, flour in a bag, cereal in a box).
    - The preparation state of prepared refers to products that have additional ingredients added (i.e., cereal with skim milk added).
  - Nutrient quantities can be provided in four different ways: by serving size, by measure, by child-serving size, and by package. All four options are available within (1716) nutrientBasisQuantityTypeCode. The two most common are serving size and by measure. The (1714) nutrientBasisQuantity for “By Measure” is generally 100 grams. The (1714) nutrientBasisQuantity for “Serving Size” varies depending on the trade item (generally listed in the packaging). For each change in (1714) nutrientBasisQuantity or (1716) nutrientBasisQuantityTypeCode, the group of nutrient quantities shall be repeated. This allows for the population of nutrient information based on several different bases, such as Serving size, 100 grams, etc. Each time the quantity or type changes, the nutrient information would be repeated as relevant for that quantity or type. Please note, serving size information does not change when “By Measure” is chosen as the (1716) nutrientBasisQuantityType. Typically, the (1714) nutrientBasisQuantity will be 100gr and the Serving Size will remain as listed in the package.
  - The serving size is listed in the NLEA panel on the package. The value is a number and an applicable Unit of Measure code from the Unit of Measure Code List. Many NLEA Panels have a text string for the serving size, for example, 16.9 fluid ounces (500ml). This attribute is a

measurement attribute consisting of a numeric value and a unit of measure (generally in grams). The information provided should be the value in front of the parenthesis. Using the example given, the numeric value would be 16.9 and the unit of measure would be fluid ounces (FO). The full text string is populated in the attribute (1720) `servingSizeDescription`.

2. To list different nutrient values, use (1733) `nutrientTypeCode`.
  - The quantity contained and/or daily value intake specified are based on and can change for each different (1733) `nutrientTypeCode`.
3. For each nutrient, the (1734) `quantityContained` and (1732) `measurementPrecisionCode` should be provided. The (1732) `measurementPrecisionCode` will help users determine the level of precision in nutrient measurement.
4. Daily Value Intake (DVI) Percent for the specified nutrient. Calculation of this value is based on several criteria such as the recommended diet size, typically specified in a number of Calories per day, and other requirements set forth by the applicable regulatory body in the target market. The value populated in this attribute is a number (which can be in decimal format if needed). There is no provided unit of measure because the attribute itself names the unit of measure as a percentage.
5. The (1737) `nutrientValueDerivationCode` is based on:
  - Calculated based on inputs or other nutrient information compiled from the ingredients and the recipe.
  - Analysis of the actual item via chemical break out in a laboratory.
  - Combination of calculations and analyses
6. (1710) `nutritionalClaimTypeCode` and (1709) `nutritionalClaimNutrientElementCode` should be used together to provide information on the type of claim being marketed. There may be some values in (1709) `nutritionalClaimNutrientElementCode` that do not require (1710) `nutritionalClaimTypeCode` (i.e., decaffeinated, natural). When claim is not available within these codes, please add as part of (1682) `nutritionalClaim`.
7. (1684) `nutrientFormatTypeCodeReference` is an open local code list where a code value can be entered to list the type of local label being displayed. This attribute is used to state the type of Nutrition Fact Panel used in the trade item.

**EXAMPLE:** Two nutrition panels - one By Serving and one By Measure

**Panel 1 - By Measure - 100 gr Basis Quantity**

- Serving Sizes are still the real/true serving size for recommended consumption
- Basis quantity is 100 gr, and all nutrient quantities are based on that size
- %DV are not filled since not relevant for By Measure 100 gr

**Panel 2 - By Serving - 90 gr Basis Quantity**

- Serving Sizes are still the real/true serving size for recommended consumption
- Basis qty is the same as Serving Size, and all nutrient quantities are based on that size
- %DV are filled since they are relevant for By Serving 90 gr

Note Mark	INFOODS CODE	Measurement Precision	Quantity	UOM	Daily Value %
	ASH	Approximately	1.952	grm	%
	CA	Approximately	52.10	mg	%
	CHO	Approximately	37.84	grm	%
	CHOL	Approximately	0.691	mg	%
	ENER	Approximately	229.2	kcal	%
	ENERPF	Approximately	147.18	kcal	%

Note Mark	INFOODS CODE	Measurement Precision	Quantity	UOM	Daily Value %
	CA	Approximately	38	grm	3 %
	CHO	Approximately	25	grm	12 %
	CHOL	Approximately	0	mg	0 %
	ENER	Approximately	285	kcal	%
	FASAT	Approximately	9	grm	29 %
	FAT	Approximately	13	grm	18 %

**Document Inclusion:** In the Reference File Information class, pick code value- Nutrition Fact Label from referenceFileTypeCode and include the URL in the uniformResourceIdentifier attribute.

**4.22 Allergen Information Module (366)**

All allergen information should be provided within this module.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(375) allergenTypeCode*	(373) isAllergenRelevantDataProvided	
(376) levelOfContainmentCode*	(370) allergenStatement	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food items.

**Foodservice Guidance:** Users are expected to list allergens using the (373) AllergenTypeCode list in conjunction with the (376) levelOfContainmentCode. Both attributes are GDSN Mandatory when the Allergen Class is invoked. They also recommend using the (370) allergenStatement attribute to populate the full allergen statement as it appears in the product package and to populate the (373) isAllergenRelevantDataProvided to confirm allergen data is complete.

**4.23 Child Nutrition Information Module (750)**

A module providing details on child nutrition. Use this module when providing information for an authorized USDA FNS Child Nutrition label.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(752) childNutritionExpirationDateTime	
	(753) childNutritionLabelStatement	
	(755) childNutritionProductIdentification	
	(757) childNutritionQualifierCode	



	(758) childNutritionQualifiedValue <b>Associated Attribute Qualifier: (759) childNutritionQualifiedValue/@measurementUnitCode</b>	
	(760) childNutritionValue <b>Associated Attribute Qualifier: (761) childNutritionValue/@measurementUnitCode</b>	

**Foodservice Sectors Impacted:** All food items.

**Foodservice Guidance:** The attributes above should be provided when products are produced in accordance with the Child Nutrition (CN) Labeling Program and are purchased by foodservice providers for FNS meal programs. The CN label should have a CN logo, identification number and watermark. Product ID, label statement and nutrient code values should be provided.

**Associated Attribute Qualifiers:** Unit of Measurement Code list.

**Document Inclusion:**

If the URL to the CN label is included within this module, include the referencedFileTypeCode list (GDSN Mandatory under this Class), choose the CN label code value, and list the URL under uniformResourceIdentifier. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked.

**EXAMPLE:**

**4.24 Product Formulation Statement Module (2867)**

Attributes within this module can be used to provide information on a trade item used for the USDA Child Nutrition Program when no approved CN label has been obtained and manufacturers are self-certified through a Product Formulation Statement. For information on trade items formulas, ingredients, and additive information, see Food and Beverage Ingredient Information Module.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(2869) productFormulationStatementRegulatoryBodyCode*	(2870) productFormulationStatementDescription <b>Associated Attribute Qualifier: (2871) productFormulationStatementDescription/@languageCode</b>	(2908) yieldServingsPerUnit

(2900) creditableIngredientTypeCode*	(2901) totalCreditableIngredientTypeAmount Associated Attribute Qualifier: (2902) totalCreditableIngredientTypeAmount/@measurementUnit Code	
(2904) creditableIngredientDescription* Associated Attribute Qualifier: (2905) creditableIngredientDescription/@languageCode	(2906) creditableAmount	
(2914) creditableGrainStandard*	(2910) containedAlternativeProteinPercent	
(2919) creditableGrainGroupCode*	(2911) creditableAlternativeProteinPerPortion Associated Attribute Qualifier: (2912) creditableAlternativeProteinPerPortion/@measurementUnit Code	
(2925) vegetableSubGroupCode*	(2915) creditableGrainAmountPerPortion	
	(2916) doesTradeItemContainNoncreditableGrains	
	(2917) doesTradeItemMeetWholeGrainRichCriteria	
	(2907) creditableIngredientAmountPerRawPortion	
	(2926) totalVegSubGroupAmount Associated Attribute Qualifier: (2927) totalVegSubGroupAmount/@measurementUnitCode	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food sectors.

**Foodservice Guidance:** Four main types of creditable ingredients meet the requirements for the Child Nutrition Program, use (2900) creditableIngredientTypeCode to choose the type of trade item being certified through a PFS statement and include all details related to the code value chosen.

**Associated Attribute Qualifiers:** Unit of Measurement and ISO Language Code should be listed where applicable.

**Document Inclusion:**

If the URL to the Product Formulation Statement is included within this module, include the referencedFileTypeCode list (GDSN Mandatory under this Class), choose the Product Formulation Statement code value, and list the URL under uniformResourceIdentifier under the Reference File Information Class. In addition, the fileEffectiveStartDateTime, fileEffectiveEndDateTime, and fileSequenceNumber should be included upon customer request. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked. AVP should not be used to provide the URL to the document.



**EXAMPLE:** Grain or Grain Alternative example.

**Product Formulation Statement**

Regulation Body Code:

Product Formulation Statement Description:

Total Portion Weight As Purchased:

**Product Formulation Statement Document**

**Creditable Ingredient Details**

Creditable Ingredient Type Code:

Total Creditable Ingredient Amount:

**Creditable Alternative Protein**

Contained Alternative Protein Percent:

creditableAlternativeProteinPerPortion:

**Creditable Vegetable**

Vegetable Subgroup Code:

Total Vegetable Subgroup Amount:

**Creditable Grains Information**

Creditable Grain Standard:

Creditable Grain Amount Per Portion:

Does Trade Item Contain Noncreditable Grains:

Does Trade Item Meet Whole Grain Rich Criteria:

**Noncreditable Grain**

Noncreditable Grain Amount:

Noncreditable Grain Description:

**Creditable Grain**

Creditable Grain Group Code:

Exhibit Group:

**4.25 Food and Beverage Ingredient Information Module (1231)**

Information on the ingredient makeup of a trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(1272) additiveName*	(1268) ingredientStatement Associated Attribute Qualifier: (1269) ingredientStatement/@languageCode	(5475) isIngredientRelevantDataProvided
(1273) levelOfContainmentCode*	(5916) additiveStatement Associated Attribute Qualifier:	(1285) ingredientName Associated Attribute Qualifier: (1286)

	(5917) additiveStatement/@languageCode	ingredientName/@languageCode
		(1287) ingredientPurpose
		(1288) ingredientSequence
		(1284) ingredientContentPercentage
		(1290) ingredientDefinition Associated Attribute Qualifier: (1291) ingredientDefinition/@languageCode
		(1292) isIngredientEmphasised
		(1270) juiceContentPercent
		(1267) ingredientOfConcernCode

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food sectors.

**Foodservice Guidance:** The GDSN facilitates the exchange of a structured list of individual ingredients as well as an ingredient statement (one text field). The latter is incorporated to facilitate all those trading partners that currently are not able to break down the list of ingredients. If breaking down the trade item components, we advise the use of (1288) ingredientSequence with (1285) ingredientName, plus any of the attributes listed under Advised for Discussion the recipient has requested.

Additive information can also be provided using the Additive Information Class, where an additive statement and specific additive claims can be included.

Attributes listing information on the party of the ingredients were not chosen at this time.

**Document Inclusion:** In the ReferenceFileInformation, pick code value Ingredient Label from referencedFileTypeCode and include URL in the uniformResourceIdentifier.

**EXAMPLE:** A hypothetical ingredient list is provided below with sub-Ingredients highlighted in colored text to show how they are most separated in an ingredient statement:

Wheat Flour (Enriched Bleached Wheat Flour (Flour, NiaCatalogue Item Notification, Reduced Iron, Thiamin Mononitrate, Riboflavin, Folic Acid) Whole Wheat Flour), Water, Sugar, Glycerin, Soybean Oil, Contains 2% or less of: Wheat Gluten, Yeast, Salt, Mono- and Diglycerides, Guar Gum, Calcium Propionate, Natural and Artificial Flavor, Sorbic Acid, Enzyme

The table below presents a sample ingredient sequence population for the hypothetical ingredient list provided above. Each sub-ingredient level starts another decimal level with a 2-digit number. Once all sub-ingredients at that level are populated, the list returns to the previous higher level sequence number:

ingredientSequence	ingredientName
1	Wheat Flour
1.01	Enriched Bleached Wheat Flour
01.01.01	Flour
01.02.02	NiaCatalogue Item Notification
01.03.03	Reduced Iron
01.04.04	Thiamin Mononitrate
01.05.05	Riboflavin
01.06.06	Folic Acid
1.07	Whole Wheat Flour
2	Water
3	Sugar

4	Glycerin
5	Soybean Oil
6	Wheat Gluten
7	Yeast
8	Salt
9	Mono- and Di-glycerides
10	Guar Gum
11	Calcium Propionate
12	Natural and Artificial Flavor
13	Sorbic Acid
14	Enzyme

#### 4.26 Food and Beverage Preparation Serving Module (1352)

Information on the way the product can be prepared or served.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(1379) preparationTypeCode	(5918) recipe <b>Associated Attribute Qualifier: (5919) recipe/@languageCode</b>
	(1377) preparationInstructions	(6556) productTextureAgencyCode
	(1373) minimumOptimumConsumptionTemperature <b>Associated Attribute Qualifier: (1374) minimumOptimumConsumptionTemperature/@measurementUnitCode</b>	(6557) productTextureCode
	(1371) maximumOptimumConsumptionTemperature <b>Associated Attribute Qualifier: (1372) maximumOptimumConsumptionTemperature/@measurementUnitCode</b>	(6558) productTexturalCharacteristics <b>Associated Attribute Qualifier: (6559) productTexturalCharacteristics/@languageCode</b>
	(1375) preparationConsumptionPrecautions <b>Associated Attribute Qualifier: (1376) preparationConsumptionPrecautions/@languageCode</b>	(1386) productYieldTypeCode
	(1380) servingSuggestion	(1383) productYield
	(1384) numberOfServingsPerPackage	
	(1365) numberOfServingsPerPackageMeasurementPrecisionCode	
	(1367) numberOfServingsRangeDescription <b>Associated Attribute Qualifier: (1368) numberOfServingsRangeDescription/@languageCode</b>	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Brand owners and manufacturers can provide serving and preparation suggestions using these attributes. In addition, (1384) numberOfServingsPerPackage and (1367) numberOfServingsRangeDescription are the number of servings per package as calculated by the manufacturer. Actual values may vary based on actual usage and measures by the end user. The values can be specified as a whole number or as a decimal. According to US Target Market Rules, the decimal can be rounded down to the nearest 0.5 increment for serving counts between 2 and 5 servings. After 5 servings, the number must be rounded down to the next whole number.

Product yield and texture characteristics can also be provided upon recipient request.

**Associated Attribute Qualifiers:** Unit of Measurement and ISO Language Code should be listed where applicable.

**Document Inclusion:** In the ReferenceFileInformation, pick code values Recipe Website or Preparation Instructions from referencedFileTypeCode and include URL in the uniformResourceIdentifier.

#### 4.27 Place Of Product Activity Module (2765)

Origin and other activity information taken place for a trade item and all the associated geographic information.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(2799) productActivityTypeCode *	(2781) countryOfOriginStatement Associated Attribute Qualifier: (2782) countryOfOriginStatement/@languageCode	
(2794) countryCode (COO) *	(2783) provenanceStatement Associated Attribute Qualifier: (2782) provenanceStatement/@languageCode	
(2801) countryCode (COA) *	(2797) productActivityRegionDescription Associated Attribute Qualifier: (2798) productActivityRegionDescription/@languageCode	
	(2795) countrySubdivisionCode (COO)	
	(2802) countrySubdivisionCode (COA)	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** The source of the ingredients and where they were processed should be provided for all the subcomponents of a trade item. The (2781) countryOfOriginStatement should replicate the statement in the physical packaging and (2794) countryCode should list countries of origin. Use (2783) provenanceStatement to list the origin of a product when cities, mountain range, regions do not comply with ISO standards. Please note there are two different country codes- one is for country of origin and the other for country of activity. Each attribute has a different BMS depending on the Class chosen.

Additional guidance on how to populate Country of Origin from multiple sources and for produce can be found in Section 10 in the [GS1 Trade Item Implementation Guide](#).

#### 4.28 Regulated Trade Item Module (3068)

This module contains information on applicable government regulations a trade item follows.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(3087) regulatoryPermitIdentification *	(3074) isTradeltemRegulationCompliant	(3071) regulatoryAct
	(3070) regulationTypeCode	(3072) regulatoryAgency
		(3075) regulatoryActComplianceLevelCode
		(6211) regulationCodeLevelReference
		(3073) isPackagingMarkedWithRegulatoryCompliance

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes list the type of regulation, the permit or ID given by agency, the agency in charge, and the trade item compliance levels, and whether the packaging requires compliance markings.

Please see section 40 in the [GS1 Trade Item Implementation Guide](#) to see examples of these attributes in use.

#### 4.29 Certification Information Module (663)

This module contains information on certification standards to which the trade item, or the process by which its manufactured, sourced or supplied complies. URL to certification can also be provided here.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(685) certificationValue*	(684) certificationIdentification	(6152) isCertificateRequired
	(683) certificationEffectiveStartDateTime	(666) certificationOrganisationIdentifier
	(682) certificationEffectiveEndDateTime	(668) additionalCertificationOrganisationIdentifier
	(665) certificationAgency	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes provide the name of the certification, the value, the passing or failing score, and effective dates. In addition, certification agency identifiers can be provided.

Except for Organic Certifications (see Farming and Processing Information Module), all certifications information should be provided within this module.

**Document Inclusion:** If the URL to the certification is included within this module, include the referencedFileTypeCode list (GDSN Mandatory under this Class), choose the certification code value, and list the URL under uniformResourceIdentifier under the Reference File Information Class. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked. AVP should not be used to provide the URL to the document.

### 4.30 Diet Information Module (1053)

Information on whether a product meets the criteria to classify as suitable for a targeted group. Certain groups of consumers are limited depending on ingredients or possible cross contamination scenarios. URL to certification can also be provided here.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(1066) dietTypeCode*	(1067) dietTypeSubCode	(1055) dietTypeDescription Associated Attribute Qualifier: (1056) dietTypeDescription/@languageCode
(1089) certificationValue*	(1088) certificationIdentification	(6302) isDietMarkedOnPackage
	(1087) certificationEffectiveStartDateTime	(6152) isCertificateRequired
	(1086) certificationEffectiveEndDateTime	(1070) certificationOrganisationIdentifier
	(1069) certificationAgency	(1072) additionalCertificationOrganisationIdentifier

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food products with diet claims.

**Foodservice Guidance:** Information providers should use both (1066) dietTypeCode and (1067) dietSubCode to indicate the type of diet and ingredient specifics that guarantee the product is permitted for a particular diet. When a specific diet is not listed in the previous codes, please use (1055) dietTypeDescription to provide details. The workgroup also recommends using (6302) isDietMarkedOnPackage to indicate all diet claims listed in product packaging.

Diet certification information should be provided in this module by invoking the Certification Information Class and providing the certification attributes listed above.

**Document Inclusion:** The URL to the diet certification should be included within this module, invoke the Referenced File Information Class, and include the referencedFileTypeCode (GDSN Mandatory under this Class). Choose the diet certification code value and list the URL under uniformResourceIdentifier under the Reference File Information Class. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked. AVP should not be used to provide the URL to the document.

### 4.31 Farming and Processing Information Module (1231)

This is information on any farming or processing performed on an agricultural trade item. This module contains information about organic certifications and farming and processing techniques.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(5879)organicCertificationIdentification*	(1246) organicClaimAgencyCode	(1258) geneticallyModifiedDeclarationCode
	(5874) organicClaimAgencyTypeCode	(1260) irradiatedCode
	(6154) organicClaimAgencyName	(1265) postProcessTradeItemTreatmentPhysicalCode
	(1248) organicTradeItemCode	(6575) bioengineeredDeclarationClaimCode
	(5880) organicCertificationEffectiveEndDateTime	(6576) isBioengineeredDeclarationClaimRelevantDataProvided
	(5881) organicCertificationEffectiveStartDateTime	(1232) rawMaterialIrradiatedCode
	(1259) growingMethodCode	
	(1262) preservationTechniqueCode	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All food sectors.

**Foodservice Guidance:** The attributes for organic certifications can be found in Trade Item Organic class. The agency name and type, the type of certification, and effective dates should be provided within this module. In addition, the processing codes listed were chosen as information that should be provided among trading partners if the trade item has undergone any of the listed techniques during growing, harvesting, and processing stages.

If trade item has is bioengineered, then (6575) bioengineeredDeclarationClaimCode and (6576) isBioengineeredDeclarationClaimRelevantDataProvided, should be provided when requested by recipient.

**Document Inclusion:** In the ReferenceFileInformation, list code value Organic Certificate from referencedFileTypeCode and include the URL in uniformResourceIdentifier.

### 4.32 Animal Feeding Module (385)

Feeding directions for the trade item as it relates to different life stages of the animal to be fed.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(386) animalNutritionalClaim Associated Attribute Qualifier: (387) animalNutritionalClaim/@languageCode
		(5909) feedAnalyticalConstituentsStatement Associated Attribute Qualifier: (5910) feedAnalyticalConstituentsStatement/@languageCode
		(5907) feedAdditiveStatement Associated Attribute Qualifier: (5908) feedAdditiveStatement/@languageCode
		(5911) feedCompositionStatement Associated Attribute Qualifier: (5912) feedCompositionStatement/@languageCode
		(388) feedType

**Foodservice Sectors Impacted:** All foodservice sectors.



**Foodservice Guidance:** Sellers can use these attributes to list the type of feed and nutrients used to raise and harvest the animals and their products. Nutritional claims in relation to animal feed can also be found here.

### 4.33 Safety Data Sheet Module (3096)

Safety data sheet information and URL to sheet should be included here. Additional attributes can be found in the Transportation Hazardous Classification Module and the Dangerous Substance Information Module.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(3113) sDSSheetNumber	(3106) firstAidProceduresDescription
	(6286) sDSSheetVersion	(3116) storageRequirementDescription <b>Associated Attribute Qualifier: (3117) storageRequirementDescription/@languageCode</b>
	(3114) sDSStandardCode	(3125) isProductClassifiedAsNonHazardous
	(3115) sDSStanadardVersion	
	(6287) sDSSheetEffectiveDateTime	
	(3241) hazardStatementsDescription <b>Associated Attribute Qualifier: (3242) hazardStatementDescription/@languageCode</b>	

**Foodservice Sectors Impacted:** Chemicals and aerosols.

**Foodservice Guidance:** Users are expected to use these attributes in conjunction with attributes in other modules to communicate information provided in Safety Data Sheets. The workgroup determined the main attributes to populate are the (3113) sDSSheetNumber- the item number from the manufacturer and the (3114) sDSStandardCode, plus the attribute versions of each. In addition, the (6287) sDSSheetEffectiveDateTime and (3241) hazardStatementDescription should be provided as they are essential in the management of the hazardous item.

The (3106) firstAidProceduresDescription, (3116) storageRequirementDescription and the (3125) isProductClassifiedAsNonHazardous attributes should be provided upon customer request.

**Document Inclusion:** If the URL to the safety data sheet is included within this module, include the referencedFileTypeCode list (GDSN Mandatory under this Class), choose the safety data sheet code value, and list the URL under uniformResourceIdentifier under the Reference File Information Class. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked. AVP should not be used to provide the URL to the document.

### 4.34 Transportation Hazardous Classification Module (3839)

Typically, this module contains hazardous information that is needed for different modes of transport. The workgroup has determined that attributes within this module should be used to communicate additional information for hazardous items. This module in conjunction with the Safety Date Sheet Module and the Dangerous Substance Information Module are recommended when communicating SDS information.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(3896) dangerousHazardousLabelNumber*	(3894) unitedNationsDangerousGoodNumber	(3866) flashPointTemperature <b>Associated Attribute Qualifier: (3867) flashPointTemperature/@measurementUnit Code</b>
(3897) dangerousHazardousLabelNumberSequence*	(3880) dangerousGoodsClassificationCode	
	(3881) dangerousGoodsHazardousCode	
	(3882) dangerousGoodsPackingGroup	

	(3883) dangerousGoodsShippingName <b>Associated Attribute Qualifier: (6072)</b> dangerousGoodsShippingName/@languageCode	
	(6073) dangerousGoodsSubsidiaryClass	
	(3885) dangerousGoodsTechnicalName <b>Associated Attribute Qualifier: (3886)</b> dangerousGoodsTechnicalName/@languageCode	
	(3879) classOfDangerousGoods	
	(6061) dangerousGoodsLimitedQuantitiesCode	
	(6062) dangerousGoodsPackagingTypeCode	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** Chemicals and aerosols.

**Foodservice Guidance:** The (6061) dangerousGoodsLimitedQuantitiesCode and (6062) dangerousGoodsPackagingTypeCode should be completed under the Hazardous Information Header Class to provide the hazardous item packaging type and whether the item can be packaged in smaller quantities in accordance with regulatory requirements.

The (3866) flashPointTemperature flag should only be provided upon customer request.

The (3879) classOfDangerousGoods and (3880) dangerousGoodsClassificationCode are the classification and transport classification code for the trade item. The (3881) dangerousGoodsHazardousCode is the hazard ID number provided to authorities during transport and the (3882) dangerousGoodsPackingGroup is the degree of risk for the trade item being transported. Local regulations may allow for a secondary class number associated with the (3880) dangerousGoodsClassificationCode. The (6073) dangerousGoodsSubsidiaryClass number will be provided in parenthesis. Finally, the (3894) unitedNationsDangerousGoodsNumber is the 4-digit number assigned by the United Nations to classify a substance for transport. All these attributes can be found in the Hazardous Information Detail subclass within the module.

The (3896) dangerousHazardousLabelNumber and (3897) dangerousHazardousLabelSequenceNumber are GDSN Mandatory when invoking Dangerous Hazardous Label subclass and should be used to communicate the number indicating the specific risk of the trade item and thus the required precautions as well as the sequence number of danger over another label. This class can also be invoked via the Dangerous Substance Information Module.

### 4.35 Dangerous Substance Information Module (920)

This a module detailing substances that can harm people.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(986) dangerousHazardousLabelNumber*	(940) isDangerousSubstance	(941) isDangerousSubstanceAMixture
(987) dangerousHazardousLabelNumberSequence*		(942) dangerousSubstanceHazardSymbolCodeReference

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** Chemicals and aerosols

**Foodservice Guidance:** There are the attributes that indicate if a trade item is dangerous or has dangerous components. Users can also include the symbols that indicate the level of hazard the trade item involves. All three attributes can be found in the Dangerous Substance Properties subclass.

The (986) dangerousHazardousLabelNumber and (987) dangerousHazardousLabelSequenceNumber are GDSN Mandatory when invoking Dangerous Hazardous Label subclass and should be used to communicate the number indicating the specific

risk of the trade item and thus the required precautions as well as the sequence number of danger over another label. This class can also be invoked via the Transportation Hazardous Classification Module. Note these attributes have a different BMS ID since they are in a different part of the network.

### 4.36 Referenced File Detail Information Module (2984)

This module provides information to specific external links that contain documents and images pertaining to the trade item outside of the Catalogue Item Notification Message.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(2999) referencedFileTypeCode*	(3000) uniformResourceIdentifier	(6257) fileSequenceNumber
	(3001) isPrimaryFile	(2989) fileEffectiveEndDateTime
		(2990) fileEffectiveStartDateTime

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Users should this module to provide links to external files, including but not limited, to logos, labels, certificates, product images, videos, etc. URLs to external files can also be included in other GDSN modules by invoking the Referenced File Information class were available. Please note these attributes are available within different modules and classes throughout the network. Their BMS ID changes depending on location.

The (2999) referencedFileTypeCode or the type of file being provided should always be provided with the (3000) uniformResourceIdentifier (text string or URL that refers to a resource or document). In addition, effective dates, file version numbers and (3001) isPrimaryFile indicating whether the file provided is the main file are always recommended.

### 4.37 Alcohol Information Module (347)

Details on products traditionally containing alcohol.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(6314) alcoholBeverageTypeCode
		(6296) alcoholUnits

**Foodservice Sectors Impacted:** Alcoholic Products

**Foodservice Guidance:** These attributes list the type of alcohol beverage and the number of alcohol units in the product based on local regulations. Used as a measure to quantify the actual alcoholic content within the product, to provide guidance on total alcohol consumption.

### 4.38 Battery Information Module (599)

Battery information for a trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(600) areBatteriesIncluded
		(601) areBatteriesRequired
		(614) batteryTypeCode
		(618) quantityOfBatteriesRequired

**Foodservice Sectors Impacted:** Foodservice Equipment and Dispensers

**Foodservice Guidance:** These attributes are used to determine if a battery is required to operate equipment. If "Are Batteries Required" or if "Quantity of Batteries" is populated or if "Are Batteries Included = "TRUE" then the type of battery in (614) batteryTypeCode attribute should be listed.

### 4.39 Organism Classification Module (2143)

Hierarchical system for grouping and naming types of living organisms.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(2145) genus	(2146) rankBelowSpecies
	(2147) species	

**Foodservice Sectors Impacted:** Seafood industry.

**Foodservice Guidance:** Information on whether the product meets the criteria to be classified as suitable for a specific targeted group. Certain groups of consumers are limited in consuming products, depending on the ingredients or species. This can be i.e., due to religious reasons or restriction of diet reasons.

### 4.40 Warranty Information Module (3960)

An assurance that the trade item is reliable, and that repairs or replacement will be done free of charge within a given time limit and under certain conditions in the event of a defect. Warranty information and URL sheet should be included here.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(3976) warrantyDuration
		(3962) warrantyDescription Associated Attribute Qualifier: (3963) warrantyDescription/@languageCode

**Foodservice Sectors Impacted:** Foodservice Equipment and Dispensers

**Foodservice Guidance:** Description and duration of the warranty of the trade item.

**Document Inclusion:** If the URL to the warranty is included within this module, include the referencedFileTypeCode list (GDSN Mandatory under this Class), choose the warranty information code value, and list the URL under uniformResourceIdentifier under the Reference File Information Class. In addition, the fileEffectiveStartDateTime, fileEffectiveEndDateTime, and fileSequenceNumber should be included upon customer request. Please note the BMS ID numbers for the Reference File Information Class attributes are different based on the module invoked. AVP should not be used to provide the URL to the document.

### 4.41 Product Information Module (6526)

Typically, this module contains attributes related to retail items, the workgroup determined attributes within Household and Office Furnishing Information class can be used to provide information on the types of linens, smallware, and cleaning products used for in foodservice.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
----------------	--------------------	------------------------

	(6597) dispenserTypeCode
	(6615) brushBroomTypeCode
	(6616) cleaningClothTypeCode
	(6617) householdCleaningProductTypeCode
	(6618) laundryDetergentTypeCode
	(6620) spongeScourerTypeCode
	(6610) rugTypeCode
	(6611) tablewareTypeCode
	(6613) towelTypeCode

**Foodservice Sectors Impacted:** Linen, cleaning, and smallware providers.

**Foodservice Guidance:** These are the code lists to choose from that list the types of dispensers, brushes, brooms, cleaning cloths and products, sponges, rugs, tableware, and towels being shipped or sold.

#### 4.42 Marketing Information Module (1489)

Information on a trade item meant to convey features and benefits and target customers.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(1494) tradeltemFeatureBenefit Associated Attribute Qualifier: (1495) tradeltemFeatureBenefit/@languageCode	(6560) imitationOrSubstituteFor Associated Attribute Qualifier: (6561) imitationOrSubstituteFor/@languageCode
	(1498) tradeltemMarketingMessage Associated Attribute Qualifier: (1499) tradeltemMarketingMessage/@languageCode	(1522) isImitationOrSubstitute
	(1550) isTradeltemSeasonal	(1530) tradeltemKeyWords Associated Attribute Qualifier: (1531) tradeltemKeyWords/@languageCode
	(1551) seasonalAvailabilityEndTime	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:**

These attributes should be provided if the data source is the Brand Owner. If the data source is not the Brand Owner, these attributes are optional unless the Brand Owner has provided the attribute information to the data source for publication. Benefits may include marketing claims about the product (e.g., *Good Source of Calcium*; *Contains No Added Sugar*; *High in Dietary Fiber*; etc.) and its seasonal availability information and key features. Internet searchable phrases and words should be included in (1530) tradeltemKeyWords upon recipient request.

(1522) isImitationOrSubstitute and (6560) imitationOrSubstituteFor should be used together to highlight the GTIN being populated is an imitation product or a substitute for a known commodity or well-known trade item or brand.

#### 4.43 Sales Information Module (3314)

Restrictions or requirements on the retailer for sales of the Trade Item to the consumer.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
	(3324) brandDistributionTypeCode	
	(6343) endAvailabilityDateTime	
	(6344) startAvailabilityDateTime	

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes can be used to define the dates when the item is available, and its distribution type. (3324) brandDistributionTypeCode is a code value which signifies the Trade Item is a restricted or private label item. Knowledge of this will allow trading partners to better manage the data shared between them. In many cases, the recipient may have the ingredient, allergen, nutrient information, or other information and not need that information to be provided in the GDSN Message. With this code, the recipient can choose to handle the GTIN different from a national brand by referencing their own information as opposed to expecting the information to be supplied through GDSN.

#### 4.44 Sustainability Module (2514)

Properties of the trade item that can affect the ecological or human environment.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
		(2519) postConsumerRecycledContentPercentage
		(3430) totalRecyclableContentPercentage

**Foodservice Sectors Impacted:** Packaging and smallware products.

**Foodservice Guidance:** These attributes are used to provide recycled content details about the trade item that can affect the ecological or human environment.

#### 4.45 Delivery Purchasing Information Module (988)

Purchasing and delivery information for a trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(1025) startAvailabilityDateTime	(1044) isNonSoldTradeItemReturnable	(4615) distributionMethodCode
		(1050) isDistributionMethodPrimary
		(1051) orderingLeadTime
		(1008) firstShipDateTime
		(1007) firstOrderDateTime
		(1016) lastOrderDateTime
		(1017) lastShipDateTime
		(1018) orderingUnitOfMeasure
		(1019) orderQuantityMaximum
		(1020) orderQuantityMinimum
		(1021) orderQuantityMultiple
		(1022) orderSizingFactor Associated Attribute Qualifier: (1023) orderSizingFactor/@ measurementUnitCode

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes can be used to outline purchasing and delivery requirements for a trade item. To get detailed explanation of the Date attributes, please see the [GS1 Trade Item Implementation Guide](#).

(1044) isNonSoldTradeItemReturnable is an indicator that any product which cannot or has not been sold can be returned. This is independent of product, which has Passed Its Expiration or Best By dating.

Attributes 1018-1021 go together, so if the trade unit is sold under a different unit of measure- the quantities for the order minimum/ maximum and the order multiple will need to be adjusted to the (1018) orderingUnitOfMeasure listed. These attributes should only be populated when the (60) "isTradeItemOrderable" is True.

(1022) orderSizingFactor is a measurement value which can be used to determine if a full truck load has been reached. Knowledge of the summed number will aid the recipient in trying to maximize trucks and minimize the number of shipments over time.

#### 4.46 Dairy Fish Meat Poultry Module (875)

Content and processing related information specific to dairy, fish, meat, and poultry products.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(902) fishMeatPoultryTypeCodeReference*	(914) catchMethodCode	(890) cheeseMaturationPeriodDescription
(900) minimumFishMeatPoultryContent*	(916) storageStateCode	(5536) cheeseMaturationProcessContainerTypeCode
	(6147) catchAreaCode	(6263) fatPercentageInDryMatter
		(895) rennetTypeCode
		(896) ripeningTimePeriod
		(6263) fatPercentageInDryMatterMeasurementPrecisionCode
		(879) fatInMilkContent
		(880) isHomogenised
		(915) productionMethodForFishAndSeafoodCode

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** Dairy, Fish, Meat, and Poultry sectors.

**Foodservice Guidance:**

**Cheese (890, 5536, 6263, 895, 896, 6263):** Use these attributes when producing and/or distributing cheese products.

**Fish (900, 902, 914, 916, 6147, 915):** Use these attributes to note the catch method, production method, catch area, and storage method of fish and seafood products.

**Milk (879, 880):** Use these attributes to list if the milk is homogenized and the percentage of fat content.

#### 4.47 Packaging Information Module (2156)

Packaging information for a trade item.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(2622) packagingMaterialTypeCode*	(2186) packagingTypeCode	(5473) packagingSustainabilityStatement Associated Attribute Qualifier: (5474) packagingSustainabilityStatement/@languageCode
	(2182) shippingContainerQuantityDescription Associated Attribute Qualifier: (2183) shippingContainerQuantityDescription/@languageCode	(2189) isPackagingReturnable
		(2176) packagingSustainabilityFeatureCode
		(2180) platformTermsAndConditionsCode
		(2181) platformTypeCode
		(2285)

		alternativeReturnableAssetIdentification
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\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** Use these attributes to list the type of packaging of the trade item, the type of material and the shipping platform. (2622) PackagingMaterialTypeCode is only mandatory within the Packaging Material Class.

Pack size information should be provided within (2182) shippingContainerQuantityDescription.

(2180) platformTermsAndConditionCode and (2181) platformTypeCode are generally provided with logistic unit information. Please see above in **Table 5-1** Data Attributes Used to Synchronize Logistics Unit Information from the [GS1 Trade Item Implementation Guide](#).

#### 4.48 Packaging Marking Module (2302)

A module containing details on markings on the packaging of the trade item for example dates, environment.

**Attribution Designations:**

GDSN Mandatory	Highly Recommended	Advised for Discussion
(2319) tradeItemIdentificationMarkingTypeCode*	(2334) tradeItemDateOnPackagingTypeCode	(2331) tradeItemDateOnPackagingFormatName
	(2306) hasBatchNumber	(5558) tradeItemDateOnPackagingFormatTypeCode
	(2308) isPackagingMarkedReturnable	(2333) tradeItemDateOnPackagingLocation
	(2310) isTradeItemMarkedAsRecyclable	
	(2312) packagingMarkedLabelAccreditationCode	

\* Please note these attributes are only GDSN Mandatory when invoking the subclasses within this module.

**Foodservice Sectors Impacted:** All foodservice sectors.

**Foodservice Guidance:** These attributes represent the markings, code dates, consumer warning information on packaging in which the trade item is contained.

Note (2306) hasBatchNumber will identify if a GTIN is marked with a batch or lot number. This is only an indication that the batch or lot number is on the package, not a report of the actual batch or lot number itself. Should actual numbers be needed, the user needing the numbers should refer to the packaging or to transactional messages to obtain the batch or lot numbers. If the packaging level is marked with lot or batch information, then the value for the pack level should be set to "TRUE."



#### 4.49 Additional Modules

In addition to the Trade Item Classes and Modules listed, we also identified Modules that may apply to the Foodservice industry depending on their business sector and product type. The following modules may be applicable, but at this time the GS1 US Foodservice Attribute Workgroup is not designating any attributes as “Highly Recommended” or that are “Advised for Discussion” among trading partners.

- (1123) Durable Goods Characteristics Module
- (706) Chemical Regulation Information Module
- (3555) Trade Item Disposal Information Module
- (1387) Food and Beverage Properties Information Module
- (1455) Health Related Information Module
- (1484) Lighting Device Module
- (2950) Propellant Information Module
- (2339) Packaging Sustainability Module
- (2928) Promotional Item Module
- (2855) Product Characteristics Module
- (3632) Trade Item Humidity Module
- (3653) Trade Item Licensing Module
- (1622) Nonfood Ingredient Module

## 5 Additional Resources

The following documents provide additional background and relevant information:

- [GS1 GDSN 3.1 Trade Item Implementation Guide \(or updated version\)](#): This guideline supplements GDSN with advice on attribute implementation and operation. It supports a variety of complicated issues encountered when implementing GDSN while increasing consistency and ease of implementation through real-world examples.
- [GS1 Navigator Tool](#): Use this database application to explore the set of attributes that are relevant for the trade item. The GDSN tab allows navigation through GDSN modules and classes, providing clear XPath info, attribute definitions, BMS ID and attribute datatype info. \*\* New Web Version Coming in 2023! \*\*
- [GS1 US Foodservice Getting Started with the GS1 Global Data Synchronization Network \(GDSN\)](#): Quick start guide with step-by-step directions on how to get started.
- [GS1 US Foodservice Guidance for Sharing Product Attributes via GDSN \(or updated version\)](#): Industry guidance with synchronization best practices and complex hierarchy examples.
- [Catalogue Item Synchronization BMS](#): Standards document for GDSN Catalogue Item Synchronization. It contains detailed use-cases of the GDSN message choreography. To find the latest document, navigate through the “Latest Version” link.
- [GS1 GDSN Attributes with BMS ID and XPath](#): Standard document used to identify BMS ID and XPath of GDSN attributes. To find the latest document, navigate through the “Latest Version” link.
- [GDSN XML Operations Manual](#): The user operations manual for the GDSN.
- [GS1 Global Data Dictionary \(GDD\)](#): A repository of core component and business definitions and their equivalent representations in targeted standards.
- [GS1 GDSN Code List Document](#): Standard document containing updated list of code values maintained by GS1. To find the latest document, navigate through the “Latest Version” link.
- [GDSN Validation Rules](#): Distributed Global Validation Rules required to support the Global Data Synchronization process. To find the latest document, navigate through the “Latest Version” link.
- [GTIN Management Standard](#): Provides the global supply chain for the identification of any item that is traded (priced, ordered, invoiced).
- [GS1 Package and Product Measurement Standard](#): The global standard for nominal measurement attributes to facilitate communication of the same for retail and non-retail products from consumer to logistical units.

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