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Fruit & Vegetable Master Data Attribute Implementation Guide

Provides support to companies seeking to electronically exchange fruit & vegetable product information in accordance with GS1 standards.

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1.3	Aug 2017	Xavier Pujol	WR 17-000079 Updates on growing method code and organic claim agency. Updates on Packaging Type Code list. New codes added (Multipack, Pouch, Display & Banderole) and updates on existing codes (pot, sack, carrying package, sleeve & crate) 4 new attributes added All attribute definitions were replaced with links to the most up-to-date definitions in the GDD Corrected text in the Produce Variety Type attribute to include additional countries. Fixed the incorrect link.

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1 Introduction

1.1 General Guidance

Companies whose item master lists or databases (commonly referred to in the industry as an “item master”) use “free form” product descriptions are encouraged to replace those descriptions with standardised product descriptions based on established produce attribute definitions. This will make it easier to maintain an item master list.

There are hundreds of attributes defined by GS1 today. In the guide we have outlined attributes specific for the Fruits & Vegetable sector. This guide is designed to provide guidance for implementing New Item Listing of your product(s) and exchanging Master Data Attributes between trading partners.

1.2 Purpose and Scope of this Document

The purpose of the Fruit & Vegetable Master Data Attribute Implementation Guide is to provide best practice guidelines for industry-wide adoption for New Item Listing.

This guide provides support to companies seeking to electronically exchange fruit & vegetable product information in accordance with GS1 Standards. The guidance applies to the full range of fruit & vegetable trade items. The guide outlines which attributes should be used for fruit & vegetable items and recommends best practices for the use of these standards to exchange static fruit & vegetable data between suppliers and retailers. Today, different platforms as well as different means to item identification exist when it comes to data sharing. The use of GS1 Standards, specifically for Identification, Traceability, Track and Trace, Barcode labels and EDI transactions, provides a common platform to help supply chain partners share and understand the same information about products and locations.

Attributes are used as a means to describing specific information about an item when transacting business. They reflect a certain characteristic about the item such as identifiers, weights, dimensions, and manufacturer or supplier information.

The guide outlines Industry Core Specific, Industry Commodity Required and Target Market attributes to be used by the Fresh Fruit & Vegetable industry. This guide is platform neutral and can be used with or without third party service providers. Adoption of the guidance offered in this document is voluntary and will be determined by the trading partner relationship.



Note: The trading of Fruits & Vegetables is subject to regulation in some target markets. Examples in this guideline are intended to communicate best practices for the exchange of master product data and may not include other information required by local regulation or by trading partners.

2 Overview

2.1 The GTIN – Basis for effective trade processes

The GTIN (Global Trade Identification Number) is part of the global GS1 system and helps to uniquely identify products, selling units, trading units and services. The GTIN enables companies to capture product data automatically for example by barcode scan – from harvest to point-of-sale. GTIN is also a key Attribute for Master Data Exchange.

Furthermore it provides the basis for electronic data interchange (EDI) between suppliers and retailers. From product ordering by electronic systems, to reliable identification in warehouse and availability on the shelves of the retail store: trading partners can optimise their bilateral trading processes regardless of restrictions of sector or country. In electronic messages such as order, despatch advice and invoice the GTIN identifies consumer units as well as sales units / trade units.

The GTIN identifies loose or pre-packed trade items at any stage of the supply chain up to the end consumer. In order to ensure the use of the GTIN along the entire supply chain, the GTIN should be allocated as early as possible. In the fruit and vegetable sector the GTIN is assigned by the party

which brings the product into the market; this can be the grower or brand owner, but also the packer, despatcher or shipper.

The Brand Owner of private label products (aka the Private Label Brand Owner, or PLBO) is responsible for assigning GTINs for those products, not the grower or packer serving that PLBO.

One specific case is retailer brands: To enable labelling of the retailers own brand of a product, suppliers receive all needed information and item numbers from the retailer. It is also important to note that a trading partner who assigns GTINs for consumer goods will be held responsible for the GTIN administration of these trading units.

If a basic characteristic or a packaging characteristic is different from the original product, a new GTIN always needs to be allocated.

The question for the fruit and vegetable sector now is the following: When does a producer or retailer have to allocate a new GTIN for a product? **For further information on creating a GTIN (Global Trade Item Number) please contact your local GS1 Member Organisation**

Note: For more information on GTIN Management Standard, please refer to www.gs1.org/gtinrules

3 Industry Roles

Figure 3-1 Produce Supply Chain

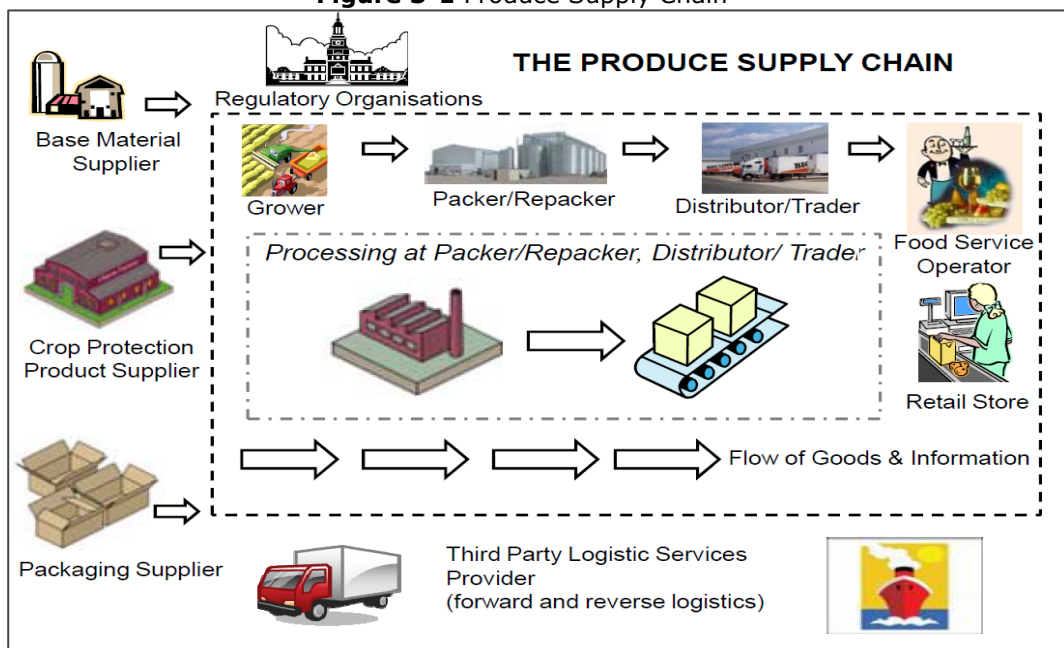


Chart from the "Traceability for Fresh Fruits and Vegetables Implementation Guide" in section [3.1 Roles](#).

3.1 Roles

When defining roles in the supply chain, you may find the same person/company to play different roles; for instance, an Agricultural Cooperative to be also a Packer or a Logistic Service Provider as a party in charge of logistic activities (e.g. transport, storage) on behalf of a supplier or retailer. Individual organizations may perform any combinations of the roles mentioned below.

Note: Food Processor, Farm shops and Farmer markets are out of scope for this document.

The chart below outlines Supply Chain Roles, Responsibilities and trade Activities.

Role	B2B Trade Activities				
	Stock		Trade	Transport	Customs
	Owner	On Behalf Of	Buy/Sell		
Supply:					
▪ Agricultural Cooperative		x	S		
▪ Broker			B/S		
▪ Distributor				x	
▪ Grower	x		S		
▪ Importer/Exporter	x		B/S		x
▪ Logistic Service Provider		x		x	
▪ Packer		x	S		
▪ Trader	x		B/S	x	
Wholesale:					
▪ Cash & Carry	x		B/S		
▪ Food Service Distributor	x		B/S	x	
▪ Terminal Market	x		B/S		
Retail:					
▪ Retailer	x		B		
▪ eTailer		x	B		

We distinguish four (4) key roles of responsibility in the Fruit and Vegetables Supply Chain:

- Grower
- Packer
- Trader
- Retailer

My Role is	What is expected from me?
Grower	The grower is responsible for the production, harvesting and despatch, as well as record keeping of appropriate information about the field and products e.g. crop information, sent to the packing station, to an importer or to the Agricultural Cooperative. Record traceability information
	Provide crop information to his customer (cooperative, packer, trader retailer,) Provide certification information (where required): e.g. Ecological Production, Global Gap, IFS/BRC
	Bilaterally agreed sales process to Cooperative, Trader, Packer, Retailer etc.

My Role is	What is expected from me?
Packer/ Repacker	The packer receives the merchandise from the grower, an importer or another packer, packs them into boxes and may palletise them. Hence he is creating Trade Units according to regulations (e.g. UNECE, USDA/FDA, EU) by sorting, classifying, packing, labelling. Record traceability information
	Legal obligation to identify themselves on the label: name/address, optionally identification number e.g. GLN. In some countries name/address maybe replaced by GLN of packer under certain conditions.

My Role is	What is expected from me?
	<p><u>Labelling in a private label scenario:</u> Label trade unit and/or pre-packaged end consumer package with private label GTIN (Retailer, cooperative, trader). Typical label: "Packed by Jim-the Packer for Sunny-Cooperative"</p> <p><u>Labelling in scenario using GTIN of Packer:</u> Assign his GTIN and label trade unit and/or pre-packaged end consumer package (unbranded or own brand rights) Typical label: "Packed by Jim-the Packer"</p>

My Role is	What is expected from me?
Trader/ Distributor	Buys trade units or organises trade
	Sells trade units (not to the end consumers) or organises trade
	Stores trade units (optionally)
	Imports or exports trade units (optionally)
	Distributor may physically handle the product
	Record traceability information

My Role is	What is expected from me?
Retailer	A retailer buys goods or products in large quantities from manufacturers or importers, either directly or through a wholesaler, and then sells individual items or small quantities to the general public or end user customers, usually in a shop, also called store. Retailers are at the end of the supply chain
	<p>Buys trade units</p> <p>Record traceability information</p>
	Sell to the end consumer

3.2 What Functions Do I perform in the Supply Chain?

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Grower	Farming (incl. Harvest, (Store)		Sell bulk or unsorted produce	Grower
		Sort according customer needs: Bulk sorting, pre-sorting	Sell bulk or sorted produce	Grower
		Sort according to customer requirements, trade units e.g. field packed or in packing facility	Sell as packed trade unit	Packer
		Sort according to customer requirements (where applicable) trade units with Consumer Unit	Sell as packed trade unit with Consumer Unit	Packer
		Sell directly to end consumer	Sell in Farm Shop or on Farmer Market	Out of Scope

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Packer/ Repacker	Create Trade Units according to customer and regulations (where applicable) (e.g. UNECE, USDA, FDA, EU) (sort, pack, label, assign GTIN)		Sell service of sorting / packing / labelling and packaging materials (optionally)	Packer
		Create pre-packaged consumer items (within a trade unit)	Sell service of sorting / packing / labelling and packaging materials (optionally)	Packer
		Buy, repack, resell	Sell as packed & labelled trade unit with/without pre-packaged consumer units	Trader

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Agricultural Cooperative	Sell on behalf of member (organise trade)		Sell packed & labelled trade units with/without pre-packaged consumer units unlabelled or with packer label	Trader
		Sell by own Private Label Brand name (assign GTIN)	Sell packed & labelled trade units with/without pre-packaged consumer units with private label	Trader
		Run auctions	Sell as packed & labelled trade unit with/without pre-packaged consumer units	Trader
		Run own Packhouse	Sell service of sorting / packing / labelling and packaging materials (optionally)	Packer

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Retailer	Buy and Sell to mainly to the end consumers		Sell loose produce or pre-packaged consumer units	Retailer
		Sell by own Private Label Brand name (assign GTIN)	Sell packed & labelled trade units with/without pre-packaged consumer units with private label	Retailer
		Sell to professional companies (B2B)	Sell loose produce or pre-packaged consumer units	Trader

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
eTailer	Buy and Sell online mainly to the end consumers		Sell loose produce or pre-packaged consumer units	Retailer
		Sell by own Private Label Brand name (assign GTIN)	Sell packed & labelled trade units with/without pre-packaged consumer units with private label	Retailer
		Sell to professional companies (B2B)	Sell loose produce or pre-packaged consumer units	Trader

Who am I?	What is my main activity?	What is my Sales activity?	My Role is
Terminal market	Buy and Sell (not to the end consumers)	Sell packed & labelled trade units with/without pre-packaged consumer units	Trader

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Broker	Buy and Sell or organise trade (not to the end consumers)		Sell packed & labelled trade units with/without pre-packaged consumer units.	Trader
		Sell by own Private Label Brand name (assign GTIN)	Sell packed & labelled trade units with/without pre-packaged consumer units with private label	Trader

Who am I?	What is my main activity?	What might I do optionally?	What is my Sales activity?	My Role is
Importer/ Exporter	Buy and Sell or organise trade (not to the end consumers)		Sell packed & labelled trade units with/without pre-packaged consumer units.	Trader
		Sell by own Private Label Brand name (assign GTIN)	Sell packed & labelled trade units with/without pre-packaged consumer units with private label	Trader



Who am I?	What is my main activity?	What is my Sales activity?	My Role is
Food Service Distributor	Buy and Sell to restaurants, cafeterias, industrial caterers, hospitals and nursing homes.	Sell loose produce or pre-packaged consumer units.	Trader
		Sell by Private Label Brand name (assign GTIN)	Trader

Who am I?	What is my main activity?	What is my Sales activity?	My Role is
Cash & Carry Store	Buy and Sell not to the end consumers	Sell loose produce or pre-packaged consumer units.	Trader
		Sell by own Private Label Brand name (assign GTIN)	Trader

4 Master Data Attributes & Definitions

There are hundreds attributes to describe a product but this guide points out attributes necessary for identifying fruit & vegetable products. We have broken these attributes into 3 sections:

- **Industry Core Attributes** – these attributes apply to all Fruit & Vegetable commodities.
- **Industry Commodity Required Attributes** – attributes specific to a certain products
- **Attributes not used in all Markets** – attributes which apply to certain local / regional requirement or regulations only

- 
Note: As a guide when filling out a New Item Listing form, fill in the Industry Core Specific attributes first. Second, fill in the Industry Commodity Required attributes and third the Target Market attributes.
- 
Note: For North American Target Market information reference the *PMA Implementation Guide for Fresh Produce Data Standards and Synchronisation*

The list of attributes and definitions in the following tables are taken from the GS1 Global Data Dictionary, with some additional guidance provided for implementation.

4.1 Industry Core Attributes

Industry Core Attribute	GDD Attribute	GDD Definition / Implementation Notes
Global Trade Item Number	globalTradeItemNumber	Global Data Dictionary (GDD) definition Implementation Notes: Refer to Fresh Foods GTIN Allocation Rules
Brand Name	brandName	Global Data Dictionary (GDD) definition Implementation Notes: Different Brand Name implies a different GTIN. We may have the need to manage different languages (Russian, Greek, ...) for the brand, in addition to the brandName, the attribute to use will be: languageSpecificBrandName If there is no brand, then detail "UNBRANDED" as brandName
Produce Variety Type	produceVarietyType	Global Data Dictionary (GDD) definition Implementation Notes: It depends on the product. The main source of data will be the UN/ECE Standards: http://www.unece.org/trade/agr/standard/fresh/fv-standardse.html In EU, the main source of data will be the UN/ECE Standards In North America, the United Kingdom, Australia, New Zealand and other countries, using the PLU name is an acceptable practice (i.e., commodity name, variety name and size). This field will have more than one value; e.g. Apple Red Delicious 2 ½ (with spaces in between the names, no commas). The current listing of PLU Codes can be found at: http://www.ifpsglobal.com/Identification/PLU-Codes/PLU-codes-Search
Growing Method Code	growingMethodCode	Global Data Dictionary (GDD) definition Implementation Notes: The recommended codes for this attribute are: CLONED_FOODS, CONVENTIONAL, FIELD_GROWN, GREENHOUSE, HYDROPONIC, INTEGRATED_PEST_MANAGEMENT, ORGANIC and SHADE_GROWN. When ORGANIC code is indicated, an organic claim agency code should also be provided.



Industry Core Attribute	GDD Attribute	GDD Definition / Implementation Notes
Trade Item Country Of Origin	tradeItemCountryOfOrigin	<p>Global Data Dictionary (GDD) definition</p> <p>Implementation Notes:</p> <p>The Country of Origin is the list of all potential countries the item could be grown in. It is the actual Country of Origin for each transaction to be exchanged via transactional data. This entry should represent the actual country of origin where the item is grown. If a consumer unit contains a mix of produce from different countries, then all countries need to be listed.</p> <p>Mandatory for EU Regulations.</p> <p>ISO Code to be used, and EU and NON_EU are allowed.</p> <p>For mixed packages (EU and non-EU) use both codes EU and NON_EU.</p> <p>The GPC will be used to provide this information as well.</p> <p>For target market, the Country of Origin for EU is one country and in North America may be one or multiple countries.</p> <p>Where countries have governing regulations compliance to regulations is mandatory. Example: For EU Regulations ISO Code is used for a country origin and additional codes identify countries as EU and non-EU</p>
Functional Name	functionalName	<p>Global Data Dictionary (GDD) definition</p>
Packaging Type Code	packagingTypeCode	<p>Global Data Dictionary (GDD) definition</p> <p>Implementation Notes:</p> <p>The description of the packaging type (packagingTypeDescription) is optional and to be provided as accurate as possible by the supplier.</p>
Quantity Of Next Lower Level Trade Item	quantityOfNextLowerLevelTradeItem	<p>Global Data Dictionary (GDD) definition</p> <p>Implementation Notes:</p> <p>The number of one child trade item contained by the parent trade item. The number of next lower level trade item that this trade item contains. This applies to a specific child GTIN and denotes how many of that child there are</p>
Net Content & UoM (Unit of Measure)	netContent	<p>Global Data Dictionary (GDD) definition</p> <p>Implementation Notes:</p> <p>The total declared weight, volume or content on the package. This field can be repeated to accommodate several values as necessary.</p> <p>The net content is required when the GTIN is marked as being a consumer unit. It is the sellable unit to the consumer.</p>
Height & UoM	height	<p>Global Data Dictionary (GDD) definition</p> <p>Implementation Notes</p> <p>The measurement of the height of the trade item. The vertical dimension from the lowest extremity to the highest extremity, including packaging. At a pallet level the trade item height will include the height of the pallet itself. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.</p>



Industry Core Attribute	GDD Attribute	GDD Definition / Implementation Notes
Width & UoM	width	Global Data Dictionary (GDD) definition Implementation Notes: The measurement from left to right of the trade item. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.
Depth & UoM	depth	Global Data Dictionary (GDD) definition. For the measurement, please refer to the GDSN Package Measurement Rules .
Gross Weight & UoM	grossWeight	Global Data Dictionary (GDD) definition. Implementation Notes: This would be the sum of the net weight of the product plus the tare weight of the packaging. Refer to the examples under the PMA Value List column for gross weight.
Trade Item Description	tradeItemDescription	Global Data Dictionary (GDD) definition
Trade Item Unit Descriptor	tradeItemUnitDescriptor	Global Data Dictionary (GDD) definition Implementation Notes: Code list with the following available values: <ul style="list-style-type: none"> ■ BASE_UNIT_OR_EACH ■ CASE ■ DISPLAY_SHIPPER ■ MIXED_MODULE ■ PACK_OR_INNER_PACK ■ PALLET ■ TRANSPORT_LOAD
Net Weight & UoM	netWeight	Global Data Dictionary (GDD) definition Implementation Notes: Does not include tare weight. In the case of a variable weight product, this would be the average weight. It is recommended that this be populated at all levels of the published hierarchy
Quantity Of Layers Per Pallet	quantityOfLayersPerPallet	Global Data Dictionary (GDD) definition
Quantity Of Trade Items Per Pallet Layer	quantityOfTradeItemsPerPalletLayer	Global Data Dictionary (GDD) definition
Effective Date & Time	effectiveDateTime	Global Data Dictionary (GDD) definition
Brand Owner (GLN)	brandOwner	Global Data Dictionary (GDD) definition Implementation Notes: Unique location number (Global Location Number or GLN) identifying the brand owner. May or may not be the same entity as the information provider.
Name Of Brand Owner	nameOfBrandOwner	Global Data Dictionary (GDD) definition Implementation Notes: Name of the party who owns the brand of the trade item. This is the name of the company that owns the brand. For example, D'Arrigo Bros. owns Andy Boy brand so the value entered for Brand Owner is D'Arrigo Bros. where Andy Boy is the Brand name
Information Provider Of Trade Item (GLN)	informationProviderOfTradeItem(GLN)	Global Data Dictionary (GDD) definition



Industry Core Attribute	GDD Attribute	GDD Definition / Implementation Notes
Name Of Information provider	nameOfInformationprovider	Global Data Dictionary (GDD) definition
Name of Manufacturer	nameOfManufacturer	Global Data Dictionary (GDD) definition
Manufacturer of Trade Item (GLN)	ManufacturerOfTradeItem (GLN)	Global Data Dictionary (GDD) definition
Is Trade Item An Orderable Unit	IsTradeItemAnOrderableUnit	Global Data Dictionary (GDD) definition
Is Trade Item A Variable Unit	IsTradeItemAVariableUnit	Global Data Dictionary (GDD) definition
Is Trade Item A Base Unit	IsTradeItemABaseUnit	Global Data Dictionary (GDD) definition
Is Trade Item A Consumer Unit	IsTradeItemAConsumerUnit	Global Data Dictionary (GDD) definition
Is Trade Item A Despatch Unit	IsTradeItemADespatchUnit	Global Data Dictionary (GDD) definition
Is Trade Item An Invoice Unit	IsTradeItemAnInvoiceUnit	Global Data Dictionary (GDD) definition
Is Packaging Marked Returnable	IsPackagingMarkedReturnable	Global Data Dictionary (GDD) definition Implementation Notes: This refers to the packaging for this GTIN level, and not the product itself. This is the empty shipping container, primarily.
Is Non Sold Trade Item Returnable	IsNonSoldTradeItemReturnable	Global Data Dictionary (GDD) definition.
Is Trade Item Marked As Recyclable	IsTradeItemMarkedAsRecyclable	Global Data Dictionary (GDD) definition
Quantity Of Complete Layers Contained In Trade Item	quantityOfCompleteLayersContainedInTradeItem	Global Data Dictionary (GDD) definition Implementation Notes: Do not use this attribute unless you have assigned a GTIN to the pallet level of the hierarchy and the pallet is an orderable and invoice unit of measure. This is only populated on the Pallet GTIN.
Quantity Of Trade Items Contained In A Complete Layer	quantityOfTradeItemsContainedInACompleteLayer	Global Data Dictionary (GDD) definition Implementation Notes: Do not use this attribute unless you have assigned a GTIN to the pallet level of the hierarchy and the pallet is an orderable and invoice unit of measure. This is only populated on the Pallet GTIN.
Quantity Of Trade Items Per Pallet	quantityOfTradeItemsPerPallet	Global Data Dictionary (GDD) definition
Start Availability Date Time	startAvailabilityDateTime	Global Data Dictionary (GDD) definition



Industry Core Attribute	GDD Attribute	GDD Definition / Implementation Notes
Last Change Date Time	lastChangeDateTime	Global Data Dictionary (GDD) definition
Description Short	descriptionShort	Global Data Dictionary (GDD) definition
Additional Trade Item Description	additionalTradeItemDescription	Global Data Dictionary (GDD) definition
Classification Category Code	gpcCategoryCode	Global Data Dictionary (GDD) definition Implementation Notes: This is the GPC Brick Code. It classifies the type of produce, the category of produce and the commodity itself.
Ingredient Sequence	ingredientSequence	Global Data Dictionary (GDD) definition
Ingredient Name	ingredientName	Global Data Dictionary (GDD) definition
Ingredient Statement	ingredientStatement	Global Data Dictionary (GDD) definition
Packaging Material Code	packagingMaterialTypeCode	Global Data Dictionary (GDD) definition
Display Type Code	displayTypeCode	Global Data Dictionary (GDD) definition
Organic Claim Agency	organicClaimAgencyCode	Global Data Dictionary (GDD) definition
Organic Trade Item Code	organicTradeItemCode	Global Data Dictionary (GDD) definition
Target Market Country Code	targetMarketCountryCode	Global Data Dictionary (GDD) definition
Certification Standard	certificationStandard	Global Data Dictionary (GDD) definition
Certification Agency	certificationAgency	Global Data Dictionary (GDD) definition
Certification Value	certificationValue	Global Data Dictionary (GDD) definition Implementation Notes: Default value "VALID" should be provided in this attribute.
Packaging Marked Label Accreditation Code	packagingMarkedLabelAccreditationCode	Global Data Dictionary (GDD) definition

4.2 Industry Commodity Required Attributes

Industry Commodity Required Attribute	GDD Attribute	GDD Definition
Descriptive Size	descriptiveSize	An alphanumeric size factor the brand owner wishes to communicate to the consumer. Example - Jumbo, Capri, Full Length, Maxi For the business requirements for item, please use the specific definition of this data type and field, 1-35, as defined in the Trade Item BRD.
Maturity at Time of Sale	maturityatTimeofSale	The method of maturity for the item at the time of its sale

4.3 Attributes not used in all Markets

Attributes not used in all Markets	GDD Attribute	GDD Definition
Grade Code	gradeCode	A code indicating the degree of refinement, features and capabilities for a trade item. An accepted level or standard to determine the quality of fresh produce. Quality grades provide a common language among buyers and sellers, which in turn assures consistent quality for consumers
Grade Code Agency	gradeCodeAgency	An agency that manages a grade code list for example ISO.
Colour	colorDescription	Information specifying a colour in text and / or coded format.
Commercial Type	commercialType	Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste. (from PMA Data Sync guide)
Inner Flesh Colour Code	innerFleshColourCode	The colour of the inner flesh usually edible part of a fruit or vegetable. Examples are pink or yellow grapefruit, orange or green for a melon.add code values: PINK, YELLOW, GREEN, GREEN_WHITE, RED, WHITE, ORANGE, BROWN, BLACK, VIOLET, PURPLE and then use GPC colour code list to broaden colour Code
Post Harvest Treatment Chemical Code	postHarvestTreatmentChemicalCode	Specifies if the fruit or vegetable has been treated or not post harvesting with a chemical or wax. ----- Implementation Notes Please add the following code values A.CHEMICALLY_TREATED_AFTER_HARVESTING - fruit or vegetable has been treated chemically after harvesting e.g., Treated with a Chemical Preservative B. NOT_TREATED_AFTER_HARVESTING - fruit or vegetable has been not been treated chemically or waxed after harvesting C. WAXED - fruit or vegetable has had a layer of wax applied after harvesting

Attributes not used in all Markets	GDD Attribute	GDD Definition
Post Process Trade Item Treatment Physical Code	postProcessTradeltemTreatmentPhysicalCode	<p>Produce has gone some physical process whether altered or other physical processes after harvesting.</p> <p>Implementation Notes</p> <p>Code Values: WASHED - produced has been cleaned by washing, TRIMMED - produced has been cut or removal of parts of item, CROWN_REMOVED - product has had the plant part of itself removed e.g. the top of a pineapple, PACKED_IN_ICE - produce has been packed in ice, SPLIT - Produce has been cut/split into sections, STEM_REMOVED - Stem of produced has been removed e.g cherry oe Broccoli, LEAFLESS - produce all leaves removed e.g. celery, radish</p>
Cooking Type of Potatoes - (available in GPC only)		<p>GPC definition:</p> <p>Indicates, with reference to the product branding, labelling or packaging, the descriptive term that is used by the manufacturer that specifies the cooking characteristics of potatoes . For culinary purposes, varieties are often described in terms of their waxiness</p>
Produce Seed Presence Type Code	produceSeedPresenceTypeCode	<p>Specifies the amount of seeds for fresh fruits and vegetables e.g. for water melons, citrus fruits.</p> <p>Implementation Notes</p> <p>Code values:</p> <p>A. SEEDLESS – Definition: Item contains No mature Seeds or potentially a few errant seeds. The determination of this is made by the supplier and is subject to target market regulations or trade organisation guidelines.</p> <p>B. UNIDENTIFIED – Definition: Quantity or presence of seeds not determined</p> <p>C. SEEDS – Item contains the normal amount of mature seeds which are typical for this trade item. The determination of this is made by the supplier and is subject to target market regulations or trade organisation guidelines.</p> <p>D. ALMOST_SEEDLESS – Item contains significantly less than normal mature seeds for this particular variety. Some mature seeds will exist in trade item. The determination of this is made by the supplier and is subject to target market regulations or trade organisation guidelines.</p>
Genus	Genus	<p>A taxonomic category ranking below a family and above a species and generally consisting of a group of species exhibiting similar characteristics. In taxonomic nomenclature the genus name is used, either alone or followed by a Latin adjective or epithet, to form the name of a species.</p>
Species	Species	<p>A fundamental category of taxonomic classification, ranking below a genus and consisting of related organisms capable of interbreeding. An organism belonging to such a category, represented in binomial nomenclature by an uncapitalised Latin adjective or noun following a capitalised genus name, as in Ananas comosus, the pineapple, and Equus caballus, the horse.</p>
Trade Item Form Description	tradeltemFormDescription	<p>The physical form or shape of the product. Defines the form the trade item takes and is distinct from the form of the packaging.</p>
Information Provider of Trade Item Additional Identification Type	partyInRole/partyRoleCode = INFORMATION_PROVIDER	<p>Code used to identify additional information provider of trade item.</p>
Information Provider of Trade Item Additional Identification Value	partyInRole/additionalPartyIdentification	<p>Code used to identify additional information provider of trade item.</p>

Attributes not used in all Markets	GDD Attribute	GDD Definition
Brand Owner Additional Identification Type	partyInRole/partyRoleCode = BRAND_OWNER	Code used to identify additional brand owner identification value.
Brand Owner Additional Identification Value	partyInRole/additionalPartyIdentification	Number used to identify the brand owner when not using GLN. May or may not be the same entity as the information provider.
Additional Trade Item Identification Type	additionalTradeItemIdentificationTypeCode	Type of the identification system that is being used as an alternative to the Global Trade Item Number. This is the source of the additional item identification (SKU, Product ID, etc.) ----- Implementation Notes If the identification is the supplier's internal product identification number, select SUPPLIER_ASSIGNED. If it is the distributor's internal product identification number, select DISTRIBUTOR_ASSIGNED. This field can be repeated as necessary in conjunction with the Additional Trade Item Identification Value.
Additional Trade Item Identification Value	additionalTradeItemIdentification	Alternative means to the Global Trade Item Number to identify a trade item. This field can be repeated as necessary in conjunction with the Additional Trade Item Identification Type.
Returnable Package Deposit Code	returnablePackageDepositCode	In some markets the deposit information is specified by a GTIN giving the type of returnable package on which a deposit is charged. Each deposit code is associated with an amount specified elsewhere. The enumeration list is maintained externally.
Returnable Package Deposit Amount	returnablePackageDepositAmount	The monetary amount for the individual returnable package.
Returnable Package Deposit Currency	returnablePackageDepositAmount/currencyCode	The monetary amount for the individual returnable package.
Trade Item Marketing Message	tradeItemMarketingMessage	Marketing message associated to the Trade item.

5 New Item Listing

Master Data Attributes – The base for long term success in your business

Using the Global Trade Item Number (GTIN) is the key to a successful business. As a supplier of fruits and vegetables you need the GTIN to uniquely identify your product. The GTIN is the key to modern electronic business processes. Single components of the GS1 System fit to each other as tools in a tool box. They can be variously combined. Producers and suppliers are able to optimise their business processes step-by-step using this GS1 tool box.

The GTIN is linked to Attributes which provide specific details of the product. Synchronising complete and accurate data attributes at the beginning of the New Item Listing process will save time and money in the long run. From there, everything else falls into place such as transmitting orders, dispatch advices/ASNs (Advance Shipping Notice) and electronic invoices. Mistakes can be avoided and communication to customers accelerated. All partners in the supply chain gain benefits.

This guide outlines the Attributes specific to Fruits & Vegetables.

Use Case Examples

The Use Case examples below are meant to provide guidance when completing the attribute sheet. Not all attributes will need to be filled in for each trade item. Organisations need to determine which best fits their product(s).

Note: Use Case Example #1 and #2, show all attributes. For these examples, only information pertaining to the product example has been filled in the rest are blank. In Use Case Example #3, 4, and 5, attributes that do not pertain to the product example were removed. For these examples, only attributes which are different from Use Case #1 and #2 are shown. Some of the attributes are in **Red** with a number next to it. This indicates further information pertaining to this attribute is below the chart.

5.1 Use Case #1: Pre-packed Fixed Weight Consumer Trade Package with GTIN encoded in the bar code (EAN/UPC)



Industry Attribute Name	Example for Consumer Unit	Example for Case
globalTradelItemNumber	3535689284566	13535689284563
brandName	Tommy	Tommy
produceVarietyType	Campari	Campari
growingMethodCode	Conventional	Conventional
tradelItemCountryOfOrigin	Netherlands	Netherlands
functionalName	Tomatoes	Tomatoes
gradeCode	Extra	Extra
packagingTypeCode	Clam Shell	KTB (Knockdown Tote Bin/RPC)
quantityOfNextLowerLevelTradelItem	Consumer units are blank	10
netContent & UoM		5kilos
descriptiveSize	0	0
commercialType	Mini Roma	Mini Roma
height & UoM	5cm	400mm
width & UoM	6cm	300mm
depth & UoM	25cm	150mm
grossWeight & UoM		3.35kilos
Colour	Red	Red
InnerFleshColourCode		
PostHarvestTreatmentChemicalCode		
PostProcessTradelItemTreatmentPhysicalCode		
cookingType		
produceSeedPresencesTypeCode		
TradelItemMarketingMessage	Burgundy Type	Burgundy Type
genus	Solanum	Solanum
species	Lycopersicum	Lycopersicum



Industry Attribute Name	Example for Consumer Unit	Example for Case
gradeCodeAgency	Check code list for UNECE or FAO or EU	Check code list for UNECE or FAO or EU
gradeCodeListIdentification		
tradelItemFormDescription	Round	Round
tradelItemDescription	Tommy Cherry Tomatoes on trusses 200gm in clam shell	Tommy Cherry Tomatoes on trusses 10 x 200gm in clam shell - EPS 156
tradelItemUnitDescriptor	Base Unit or Each	Case
netWeight & UoM	200gm	2 kilos
quantityOfLayerPerPallet		14
quantityOfTradelItemsPerPalletLayer		10
effectiveDate	2-Dec-12	2-Dec-12
additionalTradelItemIdentificationType		
additionalTradelItemIdentificationValue		
brandOwner (GLN)	3535689290000	3535689290000
AdditionalBrandOwnerIdentificationType		
AdditionalBrandOwnerIdentificationValue		
nameOfBrandOwner	National Fruit	National Fruit
informationProviderOfTradelItem(GLN)	3535689290000	3535689290000
AdditionalInformationproviderOfTradelItemIdentificationType		
AdditionalInformationproviderOfTradelItemIdentificationValue		
nameOfInformationprovider		
nameOfManufacturer	Gardener Tommy	Gardener Tommy
manufacturer(GLN)	3535689290000	3535689290000
IsTradelItemAnOrderableUnit	No	Yes
IsTradelItemAVariableUnit	No	No
IsTradelItemABaseUnit	Yes	No
IsTradelItemAConsumerUnit	Yes	No
IsTradelItemADispatchUnit	No	Yes
IsTradelItemAnInvoiceUnit	No	Yes
IsPackagingMarkedReturnable	No	Yes
IsNonSoldTradelItemReturnable	No	No
IsTradelItemMarkedAsRecyclable	Yes	Yes
quantityOfCompleteLayersContainedInATradelItem		
quantityOfTradelItemsContainedInAComplete Layer		
quantityOfTradelItemsPerPallet	1400	140
startAvailabilityDateTime	2-Dec-12	2-Dec-12
lastChangeDateTime	10-Oct-12	10-Oct-12
descriptionShort	Tommy Roma 200gm	Tommy Roma 10 x 200gm
additionalTradelItemDescription		
classificationCategoryCode	Cherry Tomato 10006162	Cherry Tomato 10006162

Industry Attribute Name	Example for Consumer Unit	Example for Case
IngredientSequence		
IngredientName		
IngredientStatement		
packagingMaterialCode	Plastic	Plastic
Returnable Package Deposit Code		8714548154003
Returnable Package Deposit Amount		3,86
Returnable Package Deposit Currency		Euro
displayTypeCode		
MaturityMethodAtTimeofSale		
organicTradelItemCode		
organicClaimAgency		
Target Market Country Code	372	372

Other examples could include: bagged apples, or bagged oranges

Consumer Unit



Consumer Unit



5.2 Use Case #2: Loose / Bulk Unpacked, No Branded displayed on label of the Trade Item, Packed and Traded by Weight with a GS1 EAN/UPC or GS1 DataBar bar code (GTIN)



Industry Attribute Name	Example for Consumer Unit	Example for Bin
globalTradelItemNumber①	614141234561	10614141234568
brandName	Unbranded	Unbranded
produceVarietyType	Watermelon	Watermelon
growingMethodCode	Conventional	Conventional
tradelItemCountryOfOrigin	Spain	Spain



Industry Attribute Name	Example for Consumer Unit	Example for Bin
functionalName	Watermelon	Watermelon
gradeCode	II	II
gradeCodeAgency	UNECE	UNECE
packagingTypeCode	UNP (Unpacked)	Bin
quantityOfNextLowerLevelTradeItem ②		48
netContent & UoM		240 kilos
descriptiveSize ③	Medium	Medium
commercialType		
height & UoM ④	12cm	1.05 meters
width & UoM ④	12cm	1.0 meters
depth & UoM④	12cm	1.2 meters
grossWeight & UoM ⑤	5 kilos	290 kilos
Colour	Green	Green (colour is not related to the Bin but to the product)
InnerFleshColourCode	Yellow	Yellow
PostHarvestTreatmentChemicalCode		
PostProcessTradeItemTreatmentPhysicalCode		
cookingType		
produceSeedPresencesTypeCode	Seedless	Seedless
TradeItemMarketingMessage		
genus	Citrullus	Citrullus
species	Lanatus	Lanatus
tradeItemFormDescription		
tradeItemDescription	Round Green Watermelon	Round Green Watermelon
tradeItemUnitDescriptor	Ea (Base unit or each)	Bin
netWeight & UoM	5 kilo	240 kilos
quantityOfLayerPerPallet		1
quantityOfTradeItemsPerPalletLayer		1
effectiveDate	15-Dec-12	15-Dec-12
additionalTradeItemIdentificationType	PLU	
additionalTradeItemIdentificationValue	4341	
brandOwner (GLN)	0614141100002	0614141100002
AdditionalBrandOwnerIdentificationType ⑥	DUNS	DUNS
AdditionalBrandOwnerIdentificationValue ⑦	1234567	1234568
nameOfBrandOwner		
informationProviderOfTradeItem(GLN)	0614141100002	0614141100002
AdditionalInformationproviderOfTradeItemIdentificationType ⑧	DUNS	DUNS
AdditionalInformationproviderOfTradeItemIdentificationValue ⑨	1234567	1234568
nameOfInformationprovider	Bill's Watermelon's	Bill's Watermelon's
nameOfManufacturer	Bill's Watermelon's	Bill's Watermelon's



Industry Attribute Name	Example for Consumer Unit	Example for Bin
manufacturer(GLN)	Insert Bill's GLN from 44	Insert Bill's GLN from 44
IsTradeltemAnOrderableUnit	No	Yes
IsTradeltemAVariableUnit	Yes	No
IsTradeltemABaseUnit	Yes	No
IsTradeltemAConsumerUnit	Yes	No
IsTradeltemADispatchUnit	No	Yes
IsTradeltemAnInvoiceUnit	No	Yes
IsPackagingMarkedReturnable	No	Yes
IsNonSoldTradeltemReturnable	No	No
IsTradeltemMarkedAsRecyclable	No	No
quantityOfCompleteLayersContainedInATradeltem		1
quantityOfTradeltemsContainedInACompleteLayer		1
quantityOfTradeltemsPerPallet		1
startAvailabilityDateTime	15-Dec-12	15-Dec-12
lastChangeDateTime	10-Oct-12	10-Oct-12
descriptionShort	Bill's Seedless Watermelons	Bill's Seedless Watermelons
additionalTradeltemDescription		
classificationCategoryCode	10006037 - watermelons	10006037 - watermelons
IngredientSequence		
IngredientName		
IngredientStatement ®		
packagingMaterialCode		97 (Triple Wall Corrugated Board)
Returnable Package Deposit Code		
Returnable Package Deposit Amount		
Returnable Package Deposit Currency		
displayTypeCode		
MaturityMethodAtTimeofSale		
organicTradeltemCode		
organicClaimAgency		
Target Market Country Code	372	372

1. Even though the product is Unbranded, it has an EAN or UPC bar code with a GTIN encoded. The GTIN is assigned by the brand owner, in this example Bill's Watermelon's
2. This is an average quantity which will vary when picked. Although quantity may vary, a number is needed. (**Note:** A new attribute may be added to indicate whether a) net quantity or b) count of next lower level of the trade item is primarily used)
3. Dependent on the market this may be a number size code
4. In this example, even though watermelons are round, estimated numbers need to be filled in
5. This is an average weight
6. This should be a GLN. If not a GLN, choose the value that best describes the identification type you're using for brand owner, in this example DUNS. This value should correlate with the number entered in AdditionalBrandOwnerIdentificationValue, e.g. DUNS

7. This is the actual number or value to the AdditionalBrandOwnerIdentificationValue, e.g. DUNS.
8. Choose the value that best describes the identification type you're using for the information provider; this value should correlate with the number entered in AdditionalInformationproviderOfTradeItemIdentificationValue, e.g. DUNS
9. This is the actual number relating to the information provider of the trade item, e.g. DUNS #
10. This attribute provides additional information such as a warning: may contain peanuts

Other examples could include: Cantaloupes or Pumpkins

Cantaloupe Each



Case of Cantaloupe



Bin of Pumpkins



5.3 Use Case #3: Pre-packed Fixed Weight Mixed Consumer Trade Package with GS1 EAN/UPC bar code (GTIN)

This is Use Case example is similar to Use Case #1 except this example is for mixed consumer products. All attributes that were similar to Use Case #1 have been removed; attributes that are different remain. The key difference is the Ingredient Sequence and Ingredient Name, since it is a mixed product this needs to be identified using these attributes. The GTIN is different since it is a different product.



Industry Attribute Name	Example for Consumer	Example for Case
globalTradeItemNumber	3535689298006	13535689298003
brandName	Klaus	Klaus
growingMethodCode	Organic	Organic
produceVarietyType	Thompson seedless / Palieri	Thompson seedless / Palieri
IngredientSequence	1,2	1,2
IngredientName	Red, Green Table Grapes	Red, Green Table Grapes

Other examples: mixed peppers, bagged mixed greens/salads, bagged oranges & apples:

Consumer package of mixed peppers



5.4 Use Case #4: Private Label Trade Item Sold by Weight with a GS1 EAN/UPC bar code (GTIN)

This Use Case example is similar to Use Case #2 except in this example the Watermelons are Private Label. Again, all attributes were removed that were similar to Use Case #2 and those that are different remain.

The Key differences are:

- The Brand Name is Jim’s Tasty Watermelons
- The watermelons are farmed by Bill’s Watermelons
- John’s Cooperative is the provider of the information for the New Item Listing.

This is shown through the following attributes: Brand Name, Name of Manufacturer and Name of Information Provider.

Basically, this scenario is of a Cooperative (John’s) where the farmer Bill’s) sells his product to John’s Cooperative and John’s Cooperative sells the product to multiple trading partners. In this case, they are labelling the product for a retailer (the brand owner) with the retailers’ GTIN.



Industry Attribute Name	Example for Consumer Unit	Example for Bin
globalTrade Item Number	3536789378926	13536789378923
informationProviderOfTradeItem(GLN)	3534437200001	3534437200001
nameOfInformationprovider	John's Cooperative	John's Cooperative
AdditionalInformationproviderOfTradeItemIdentificationType	DUNS	DUNS
AdditionalInformationproviderOfTradeItemIdentificationValue	45678901	45678901
descriptionShort	Jim's Tasty Watermelon's (Private Label)	Jim's Tasty Watermelon's (Private Label)
manufacturer(GLN)	3538653100008	3538653100008
nameOfManufacturer	Bill's Watermelon's	Bill's Watermelon's
brandName	Jim's Tasty Watermelons (Private Label)	Jim's Tasty Watermelons (Private Label)

Industry Attribute Name	Example for Consumer Unit	Example for Bin
brandOwner (GLN)	3536789100008	3536789100008
nameOfBrandOwner	Jim's Supermarket	Jim's Supermarket
AdditionalBrandOwnerIdentificationType	DUNS	DUNS
AdditionalBrandOwnerIdentificationValue	2345678	2345678

5.5 Use Case #5: Loose Branded Trade Item, Packed and Traded by Weight with a GS1 DataBar bar code (GTIN)

This Use Case example is similar to Use Case #2 except in this example the Watermelons are branded with Bill's Watermelons. In this example, Bill's provides all information since Bill's farm's, sells and provides all information to the trading partner for the New Item Listing. (Only the attributes which are different from Use Case #2 are shown.)

For illustration, below is an apple with a GS1 DataBar Stacked Omnidirectional bar code. Along with the GS1 DataBar bar code on the sticker, there is a human readable PLU (Price Look Up) Number. These PLU's are assigned and administered by the IFPS (International Federation of Produce Standards).



Industry Attribute Name	Example for Consumer Unit	Example for Bin
globalTrade Item Number	614141234561	10614141234568
informationProviderOfTradeItem(GLN)	0614141100002	0614141100002
nameOfInformationprovider	Bill's Watermelon's	Bill's Watermelon's
AdditionalInformationproviderOfTradeItemIdentificationType	DUNS	DUNS
AdditionalInformationproviderOfTradeItemIdentificationValue	1234567	1234568
manufacturer(GLN)	0614141100002	0614141100002
nameOfManufacturer	Bill's Watermelon's	Bill's Watermelon's
brandName	Bill's Watermelons	Bill's Watermelons
brandOwner (GLN)	0614141100002	0614141100002
nameOfBrandOwner	Bill's Watermelon's	Bill's Watermelon's
AdditionalBrandOwnerIdentificationType	DUNS	DUNS
AdditionalBrandOwnerIdentificationValue	1234567	1234567

Industry Attribute Name	Example for Consumer Unit	Example for Bin
additionalTradeItemIdentificationType ①	PLU	
additionalTradeItemIdentificationValue ②	4341	

5.6 Use Case #6: Loose / Bulk Unpacked Trade Item Traded by Trade Item with minimum weight No Label on the Produce



Industry Attribute Name	No Consumer Unit	Example for Case
globalTradeItemNumber		4311527003099
isTradeItemABaseUnit		Yes
effectiveDate		21-Nov-12
informationProviderOfTradeItem(GLN)		4000000100003
nameOfInformationProvider		Vegi Cooperative
AdditionalInformationProviderOfTradeItemIdentificationType		
AdditionalInformationProviderOfTradeItemIdentificationValue		
Target Market Country Code		276
lastChangeDateTime		21-Nov-12
startAvailabilityDateTime		1-Jan-13
quantityOfNextLowerLevelTradeItem		
descriptionShort		Yellow Cherry Tomatoes
isTradeItemADispatchUnit		Yes
isTradeItemAnInvoiceUnit		Yes
isTradeItemAnOrderableUnit		Yes
isTradeItemAConsumerUnit		No
manufacturer(GLN)		4000000100003
nameOfManufacturer		Vegi Cooperative
netContent & UoM		
netWeight & UoM		3 kg
brandName		Unbranded
brandOwner (GLN)		
nameOfBrandOwner		
AdditionalBrandOwnerIdentificationType		
AdditionalBrandOwnerIdentificationValue		
TradeItemMarketingMessage		
additionalTradeItemDescription		
functionalName		Cherry tomato



Industry Attribute Name	No Consumer Unit	Example for Case
classificationCategoryCode		10006162 - Cherry tomato round
IsNonSoldTradelItemReturnable		No
IsTradelItemAVariableUnit		No
tradelItemCountryOfOrigin		Spain
organicTradelItemCode		5
growingMethodCode		Conventional
organicClaimAgency		
Colour		Yellow
descriptiveSize		
additionalTradelItemIdentificationType		
additionalTradelItemIdentificationValue		
gradeCode		
gradeCodeAgency		
tradelItemFormDescription		
tradelItemDescription		
produceVarietyType		
genus		Solanum
species		lycopersicum
commercialType		Cherrytomatoes
MaturityMethodAtTimeofSale		
InnerFleshColourCode		
tradelItemUnitDescriptor		Case
PostHarvestTreatmentChemicalCode		
produceSeedPresencesTypeCode		
cookingType		
PostProcessTradelItemTreatmentPhysicalCode		
packagingTypeCode		Box
height & UoM		16cm
depth & UoM		30cm
width & UoM		40cm
grossWeight & UoM		3.5 kilo
IsPackagingMarkedReturnable		No
displayTypeCode		
IsTradelItemMarkedAsRecyclable		No
packagingMaterialCode		95
Returnable Package Deposit Code		
Returnable Package Deposit Amount		
Returnable Package Deposit Currency		
quantityOfTradelItemsPerPalletLayer		8
quantityOfTradelItemsPerPallet		128
quantityOfLayerPerPallet		16

Industry Attribute Name	No Consumer Unit	Example for Case
quantityOfCompleteLayersContainedInATradeItem		
quantityOfTradeItemsContainedInACompleteLayer		
IngredientSequence		
IngredientName		
IngredientStatement		

Other example: Radishes



6 Glossary

Listed below are terms used by the produce industry and their cross-references with the GS1 Glossary of Terms.

Sector Term	GS1 Glossary Term	Definition
<ul style="list-style-type: none"> ▪ Each ▪ Base Unit ▪ Saleable Unit 	Trade Item	Any item (product or service) upon which there is a need to retrieve pre-defined information and that may be priced, ordered, or invoiced at any point in any supply chain.
<ul style="list-style-type: none"> ▪ Case ▪ Traded Unit ▪ Bin ▪ Tote ▪ Pallet ▪ RPC ▪ Tray ▪ Crate 	Standard Trade Item Grouping	A standard composition of trade item(s) that are not intended for point-of-sale scanning. The PTI has chosen to use the GTIN-14 for case level traceability.
<ul style="list-style-type: none"> ▪ Pallet ▪ Non-Standard Mixed Case 	Logistics Unit	An item of any composition established for transport and/or storage that needs to be managed through the supply chain.
Pallet	Unit Load	One or more transport packages or other items contained on a platform making them suitable for transport, stacking, and storage as a unit.
	Global Trade Item Number (GTIN)	The globally-unique GS1 System identification number for products and services. A GTIN may be 8, 12, 13, or 14 digits in length. The GTIN-14 has been selected for use in the PTI.
	Indicator Digit	The leftmost digit of a GTIN in a GTIN-14. The digit '0' indicates a base unit Global Trade Item Number, digits 1 to 8 are used to define a packaging hierarchy of a product with the same Item Reference, and digit 9 indicates a variable measure trade item.
	GS1 Company Prefix	A globally-unique number assigned to companies by GS1 Member Organisations to create the identification numbers of the GS1 System.
	Check Digit	A digit calculated from the other digits of an element string, used to check that the data has been correctly composed or correctly keypunched.
	Item Reference Number	The part of the GTIN allocated by the user to identify a trade item for a given GS1 Company Prefix.
	Application Identifier (AI)	The field of two or more digits at the beginning of an element string that uniquely identifies its format and meaning within the GS1 System.